

Global and national REDD+ architecture

Linking institutions and actions

Sheila Wertz-Kanounnikoff and Arild Angelsen

- The global REDD+ architecture will influence the design and implementation of national REDD+ schemes. However, the nature of the global architecture is not yet clear and will probably evolve quickly over the next few years. To deal with uncertainties, countries should adopt flexible mechanisms and can implement REDD+ schemes in stages.
- Realising REDD+ within countries means paying attention to three key elements: incentives, information and institutions (the 3Is). *Incentives* consist of performance-based payments and changes in policies. Countries need to provide reliable *information* on realised changes in forest carbon stocks to qualify for funds from international sources. Effective *institutions* are needed to manage information and incentives.
- REDD+, as part of nationally appropriate mitigation action (NAMA), offers opportunities to harmonise national mitigation actions across sectors and to redirect development toward low carbon economies.

Introduction

REDD+ started as a global initiative and much of the debate has been about the global architecture. But, although the incentives for REDD+ will be

set at the global level, realising REDD+ will require action at national and local levels. Tropical forest countries will have to redirect their budgets and administration, undertake reforms and reorient their economies toward low carbon emissions.

The problem facing countries looking to put REDD+ in place is that the global REDD+ system has not yet been decided, although it is gradually taking shape at meetings of the United Nations Framework Convention on Climate Change (UNFCCC), in particular at the annual Conferences of the Parties (COPs). The development process will probably continue for the next few years. Meanwhile, REDD+ is likely to be put in place in stages, as discussed below. Perhaps the greatest uncertainty surrounds the international funding that could be made available for REDD+ – the amount, timing and conditions. Planning for REDD+, therefore, must be flexible.

We are likely to see different REDD+ systems emerge. The current global focus is on UNFCCC negotiations. If REDD+ is linked to carbon markets, the main funding sources are likely to be the European Union Emission Trading Scheme (ETS) and the US carbon market. Avoided deforestation is currently not included in ETS and it is uncertain whether it will be included in the near future. In the USA, proposals are on the table to include REDD+ as an offset option. Other national or regional carbon markets and voluntary markets are also likely to emerge or develop further. Standards will probably vary between markets, introducing yet more complications for countries that want to implement REDD+.

This chapter first reviews the main features of the global REDD+ architecture currently being discussed as part of the UNFCCC negotiations. The global architecture will influence the design and implementation of national REDD+ strategies and policies. The second part of the chapter describes the main features of national REDD+ architecture. This framework will be discussed in several subsequent chapters.

Global REDD+ architecture and implications for national REDD+

Phased approach

Several countries have put forward proposals on how to incorporate a REDD+ mechanism into a post-2012 climate regime. One important and increasingly accepted proposal is for REDD+ implementation in three – possibly overlapping – phases (Meridian Institute 2009a, b). In the first 'readiness' phase, countries prepare a national REDD+ strategy through inclusive multistakeholder consultations, start building capacity in monitoring,

reporting and verification (MRV), and begin demonstration activities. The second phase is 'more advanced readiness', but the focus is to implement policies and measures (PAMs) to reduce emissions (as set out in the national REDD+ strategy and which will be verified by proxy indicators). The third phase is full UNFCCC 'compliance'. In this phase, tropical forest countries are compensated solely for reduced emissions and enhanced carbon stocks relative to agreed reference levels.

The advantage of the phased approach to REDD+ lies in its flexibility: countries can participate according to their capacity and have incentives to progress from one stage to the next. This means that a wide range of tropical forest countries will be able to take part in REDD+. For example, countries with sophisticated MRV systems, and sound institutional frameworks may start at phase 3. Other countries with less sophisticated MRV systems can start at phase 1 or 2, but have incentives to move toward more sophisticated systems so that they can graduate to phase 3. The incentive for graduating

Table 2.1. Elements of a phased approach toward REDD+

	Phase 1	Phase 2	Phase 3
Scope	RED/REDD/REDD+	REDD/REDD+	REDD+
Crediting scale	Subnational	Nested (both subnational and national)	Nested or national approach
Performance indicators	Strategy adopted Legislative and policy assessment completed Consultations conducted Institutions in place	Policies enacted Measures enforced Proxies for forest carbon changes	Quantified forest carbon changes (tCO₂e), compared to a reference level
Funding	Initial support for national strategy development and readiness activities (e.g., FCPF, UN- REDD, bilateral initiatives)	Funding from bilateral and multilateral sources and COP-mandated funds.	Primarily linked to compliance carbon markets, but might also be via global fund
MRV systems	Capacity development	Capacity development and basic monitoring capacities	Advanced monitoring capacities and setting reference levels

Source: Adapted from Meridian Institute (2009a, b)

from phase 1 to phase 3 is that by doing so, countries generate added and more reliable income from REDD+.

The sources of funds vary according to the phase of REDD+ implementation. In the early phases (phases 1 and 2), funding will come mainly from public sources. There could also be funding from voluntary markets, but this would be mainly for projects producing verified emission reductions (VERs). As countries develop more sophisticated MRV systems in phase 3, direct financing by compliance markets becomes feasible. Since carbon compliance markets could leverage more predictable and longer-term funding than public sources, countries that graduate to phase 3 could generate significant income from certified reductions in forest emissions.

Creditable REDD+ activities

In 2005, discussions focused only on 'reducing emissions from deforestation' (RED). As it became clear that forest degradation in some countries was an even bigger problem than deforestation, 'avoided degradation' – the second D – was officially endorsed at the 2007 COP13 in Bali and RED morphed into 'reducing emissions from deforestation and degradation' (REDD).

Subsequently, it was further recognised that there could be climate benefits not only from avoiding negative changes (deforestation, degradation) but also from enhancing positive changes, such as conserving and restoring forests (Angelsen and Wertz-Kanounnikoff 2008). This can be referred to as 'removals' or 'negative emissions' (cf. Box 1.1). This was expressed as the '+', and 'reducing emissions from deforestation and forest degradation in developing countries (REDD); and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries' (REDD+) became official language at the 2008 COP14 in Poznan. This change in scope is illustrated in Figure 2.1 in the form of a U-turn (which is not to suggest that negotiations are moving backwards!).

Changes in:	Reduced negative change	Enhanced positive change
Forest area number of hectare	Avoided deforestation	Afforestation and reforestation (A/R)
Carbon density (carbon per hectare)	Avoided degradation	Forest regeneration and rehabilitation (carbon stock enhancement)

Figure 2.1. Creditable activities in a REDD+ mechanism

Source: Angelsen and Wertz-Kanounnikoff (2008)

An important question is whether or not this U-turn will be completed, i.e., whether afforestation and reforestation (A/R) activities will be eligible for REDD+. A/R projects are already eligible in the Clean Development Mechanism (CDM), and hence are already included in the global toolbox to mitigate climate change. Some disagree that forest plantations should be included in a global REDD+ scheme, because encouraging plantation forestry could threaten conservation of biodiversity (e.g., Greenpeace 2009). Others argue that forest plantations need to be part of REDD+ to make rules for land use planning consistent and, ultimately, so that there will be just one coherent system that accounts for all changes in terrestrial carbon stocks (e.g., proposals by Indonesia, India and China; see Parker *et al.* 2009).

Subnational, national and nested approaches

A recurrent issue in the REDD+ debate is the level at which accounting and providing incentives will take place. Three approaches are being discussed: direct support to projects (subnational level), direct support to countries (national level), or a 'nested' approach that combines the two (Angelsen *et al.* 2008; Pedroni *et al.* 2009).

The global REDD+ negotiations lean strongly toward a national approach for a number of reasons: countries would be free to pursue a broad set of policies, countries could account for and control domestic leakage, and countries could have a stronger sense of ownership. In the short to medium term, however, a national approach is not feasible in many countries. So, global REDD+ negotiations are considering a subnational approach as a first step toward national approaches (UNFCCC 2007: Decision 2/CP.13).

Many project-based REDD+ activities are already underway in response to the call for national demonstration activities to inform the design of a global REDD+ mechanism (UNFCCC 2007: Decision 2/CP.13), see Chapter 21. Projects attract private sector finance, and encourage early involvement and broad participation. Emission reductions realised by these activities are considered to be 'early action' and may become eligible for credits under a global post-2012 REDD+ mechanism.

A nested approach, the most flexible of the three approaches, allows countries to begin with subnational activities and to move gradually to a national approach. The nested approach allows both subnational and national approaches to coexist and allows both projects and government to earn REDD+ credits, in a similar way to the Joint Implementation (JI) mechanism under the Kyoto Protocol. The challenge in the nested approach is to harmonise the two levels. It represents the most likely scenario for REDD+ in many countries, particularly in the short to medium term when subnational activities will

continue and be credited by an international mechanism in parallel with national-level accounting and crediting.

Performance-based payments

A core idea of REDD+ is performance-based payments. That is, payments are conditional on the outcome of a REDD+ action. The main argument for payment for outcomes (as opposed to payment for inputs) is that linking incentives as directly as possible to problems will be most effective. For example, a payment for a policy reform cannot take into account how effectively a policy will be implemented, or whether other complementary reforms are also necessary.

In principle, performance-based schemes can be established for emissions or carbon stocks. For emissions, the net change in carbon stocks for a specific period – as compared with a reference level – can be used to calculate credits. For carbon stocks, payments could be based on the total carbon stock in a forest during a specific period, that is, on absolute levels and *not* the changes (emissions). The global carbon markets that are emerging trade emission reductions and, therefore, can be tapped to fund REDD+ activities (provided REDD credits are made fungible). Further, an emission-based approach targets the climate problem directly (i.e., the problem is emissions) and, therefore, provides countries and projects with a greater incentive than indirect approaches (Angelsen and Wertz-Kanounnikoff 2008).

One important requirement for performance-based payments is a capacity for MRV. Ultimately, in phase 3 of the implementation process, the performance indicators used to determine payments are quantified emission reductions or stock enhancements (tonne of carbon dioxide equivalent – tCO₂e). In phases 1 and 2, when MRV systems are less developed, interim performance indicators or verifiable proxies can be used to determine payments (Chapter 7). Proxies could be policies that have been enacted, measures enforced, consultations conducted, capacity enhanced, demonstration activities implemented, or proxies for changes in emissions and/or removals that have taken place (e.g., reduction in deforestation rates).

Performance indicators for policies and measures (PAMs) will be particularly important to leverage funds for phase 2 of REDD+ implementation. Many tropical forest countries are far from being eligible for phase 3, and need to make substantial investments in often costly policy reforms. The performance indicators for PAMs must, therefore, be internationally accepted and monitored. Tropical forest countries seeking to participate in an international REDD+ scheme will also need to adopt transparent design and implementation processes for REDD+ policies and measures.

Sources of funding

Since RED was put on the international negotiations table in 2005, the debate on finance has evolved significantly. From early, dichotomous discussions of fund versus market-based finance (Alvarado and Wertz-Kanounnikoff 2009), the debate now recognises that a variety of financing sources (voluntary contributions, market-based and fund-based finance) will be needed for REDD+ (Dutschke *et al.* 2008; Grondard *et al.* 2008; Meridian Institute 2009a), particularly in the early phases.

Funding in the three phases of REDD+ implementation is likely to come from different sources. Voluntary financial contributions (e.g., from the World Bank Forest Carbon Partnership Facility (FCPF), UN-REDD Programme, or bilateral initiatives) will be the main funding source for phase 1 (Meridian Institute 2009a). Bilateral and multilateral sources and COP-mandated fund-based finance, for example through the establishment of a global forest facility, will be the main sources of funds for phase 2 REDD+ national strategy implementation (Meridian Institute 2009b). Other ways to mobilise fund-based finance include market-linked approaches, where revenues are generated from auctions of emission allowances in Annex I countries (EC 2008; cf. Mexican and Norwegian proposals, see Dutschke 2009; Parker et al. 2009). Performance-based REDD+ finance could also be triggered by agreeing indicators (in the early stages of phase 2), or by setting national reference levels for forest carbon stocks so that changes in carbon stocks (or proxies) from the implementation of REDD+ policies (later stages of phase 2) can be measured. To monitor the effectiveness of policies requires appropriate data and capacities. A country's ability to provide these signifies a transition toward phase 3.

In phase 3, the changes in forest carbon stocks are measured against agreed reference levels. In this phase, emission reductions could also generate funds when sold as certified carbon credits on international carbon markets, and could become the main source of funding. But for carbon markets to exploit the full potential of REDD+ carbon credits, the inclusion of REDD+ credits needs to be accompanied by more ambitious targets for reducing global emissions.

Monitoring, reporting and verification and reference levels

The consensus on MRV is that a common methodology should be used for policy approaches (based on remote sensing and ground verification); that robust national forest monitoring systems and verification after the fact are required; and that there is a need for reference emission levels that take into account national circumstances.

Despite significant progress in the last few years, several questions concerning MRV are still being discussed in UNFCCC negotiations. These include which carbon pools should be monitored, whether verification should be done by national or international entities, and how reference (crediting) levels should be set (Verchot and Petkova 2009). Two options have been proposed regarding which carbon pools should be included, one is to monitor all five approved pools and the other is to monitor only selected pools. The latter option is likely to be more cost effective and more consistent with current CDM rules for A/R activities and with national greenhouse gases accounting for land use, land use change and forestry (LULUCF) in Annex I countries.

As regards whether verification should be done by national or international entities, Parties explored the option of verification at the national level (in accordance with internationally agreed guidelines and procedures) for nationally funded actions, and verification at the international level for actions implemented with external support (Verchot and Petkova 2009).

Although there is agreement that reference levels should be based on historical emissions and take national circumstances into account, there is no agreement on what constitutes a reference level, or the criteria or procedures for setting reference levels. Conceptually, reference levels can refer to either a business-asusual (BAU) baseline or a crediting baseline (Angelsen 2008a). Different ways of setting the reference levels have profound implications for allocating global REDD+ resources and also for incentives (Meridian Institute 2009a).

Four options have been put forward for setting reference levels. These differ according to whether country-specific baselines are determined by a negotiated formula or whether the baseline is proposed by the country and approved by the COP, an independent panel of experts, or a combination of the two. Involving experts is considered to be critical in order to minimise the risk of inflated reference levels, which would limit or even eliminate global additionality (Meridian Institute 2009a).

National REDD+ architecture

In theory, the overall REDD+ architecture can be compared to a multilevel payment for environmental services (PES) scheme (Angelsen and Wertz-Kanounnikoff 2008). There are at least two levels. At the international level, buyers (e.g., voluntary or compliance markets) will pay sellers (governments or subnational entities) in tropical forest countries for an environmental service or measures likely to deliver this service (e.g., tenure reform, law enforcement). At the national level, governments or other intermediaries (buyers) will pay subnational governments or local landowners (sellers) to reduce emissions or to take other measures to reduce emissions (e.g., strengthen law enforcement

or remove subsidies). In practice, the problems of national implementation of PES call for a much broader policy approach, as argued in several of the book chapters.

The key elements of a national REDD+ structure are shown in Figure 2.2. At the international level, funds may originate from carbon markets and international funds (of voluntary contributions or linked to carbon markets) as shown by the red arrows. At the national level, money can be channelled either as support to governments or related institutions, or to separate REDD+ funds. Direct support for projects is also feasible, as discussed earlier.

Figure 2.2 also shows the 3Is – *incentives* (red arrows), *information* (green arrows) and *institutions* (white boxes). The 3Is need to be flexible, as they will change over time as countries progress through the three phases of REDD+ implementation. For example, while subnational activities are likely to be particularly important during the early phases of REDD+ implementation (phase 1), this will change to a national approach in the long run (phase 3).

What should REDD+ funds be spent on?

Before discussing national institutions for implementing REDD+, we outline the main ways REDD+ funds may be spent:

- 1. **On capacity building and readiness.** This refers to money spent to develop a national REDD+ strategy, on consultations and to develop MRV capabilities. It also includes money spent to set up demonstration activities, which both build capacity and help learning, and also reduce and remove emissions.
- 2. On broad policies to address the drivers of forest carbon change. This refers to money spent on policies and measures (PAMs) to address the underlying drivers of forest carbon change, including regulating demand for agricultural and forest products, tenure reforms, land use planning, better governance, and command and control measures. Parts 3 and 4 of this book discuss these measures at some length.
- 3. **On performance.** This refers to money spent on rewards for performance or results, and requires some form of performance measurement, which could be indicators, proxies or quantified forest carbon change depending on the level of MRV capabilities. Payments for forest carbon services are the most direct form of performance payments, but other more intermediate forms between this and PAMs are feasible.

All three types of spending require MRV in order to ensure payment according to performance, the key principle behind REDD+. However, different institutional and MRV arrangements will be needed for the different types of activities and payments.

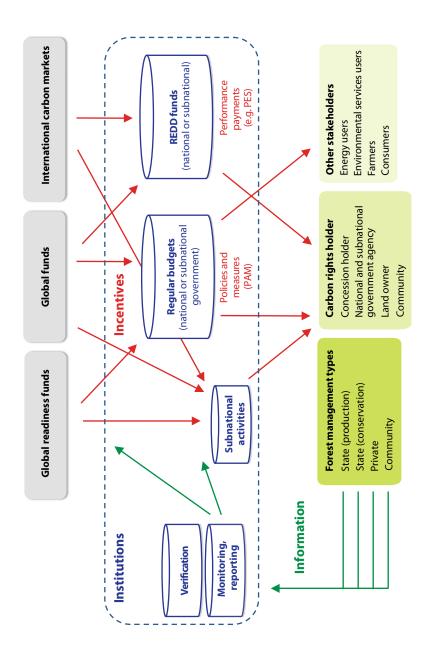


Figure 2.2. Conceptual model of national REDD+ architecture

Money could be spent in all three ways simultaneously. For example, PAMs will be needed in all three phases of REDD+ implementation. A country could produce REDD+ credits for sale in international carbon markets (phase 3) by putting in place a set of PAMs to reduce the pressure on forests and, at the same time, put in place performance-based measures.

Institutional framework for national REDD+

Figure 2.2 shows the three main elements of national REDD+ architecture: incentives, information and institutions (the 3Is). REDD+ *incentives* flow from international sources to a national fund or to regular budgets (e.g., ministries of finance) and then to the subnational level through the government budget or direct payments to carbon rights holders (Chapter 5). Carbon rights holders include private landholders, communities, concession holders and government agencies.

Figure 2.2 also shows how international performance payments can flow directly to local carbon rights holders, without passing through national REDD+ funds or government budgets. This would occur in the subnational and nested approaches. Although the nested approach is limited to the early phases of REDD+ implementation (since a national approach is the long-term goal), it could persist for much longer if countries choose the project-based crediting route.

The second element is REDD+ *information*, i.e., data on forest emissions reduced or carbon stocks enhanced from each forest, by type and location. This information will be gathered and processed through a national, regional or international MRV system and submitted to a national REDD+ payment authority (fund or treasury), a UNFCCC institution, and to international buyers of REDD+ credits. Payments to local carbon rights holders will be determined by this information.

The third element is REDD+ *institutions*. These will manage the flow of information on changes in forest carbon stocks between levels, and the flow of incentives to carbon rights holders. These institutions could build on existing institutions, and would include a REDD+ payment authority and an MRV system. The REDD+ payment authority would channel funds from the international to the subnational level according to the volume, location and type of emission reductions (Chapter 5). Most probably, sub-institutions will be needed to manage technical, financial, administrative and supervisory aspects. The MRV system will gather and verify information on actual reductions in forest emissions and report to national and international counterparts (Chapter 7). In principle, the MRV system could cover any level, from national to international. Since MRV capabilities are costly to

develop and maintain, regional MRV systems, such as envisaged by Central African Forest Commission (COMIFAC) countries, could be cost effective. Note that some institutions and their functions will most likely evolve over time to respond to the changing demands in the different phases of the REDD+ implementation process, including the transition from subnational or nested approach to a fully national approach where project-level activities need to be integrated into the national system (also called the 'docking issue', see FCPF 2009).

Concluding remarks

The international REDD+ architecture will influence the design and implementation of national REDD+ schemes. But the international architecture is still evolving. Meanwhile, a phased approach, at both international and national levels, is important to ensure wide participation and to reward countries as they develop REDD+ schemes. The institutional arrangements countries put in place need to be flexible to accommodate changes as they move through the different phases of implementation.

Realising REDD+ within countries has three main features: incentives, information and institutions (3Is). First, countries need to put in place incentives to reduce forest emissions and enhance removal of carbon; this could be done directly by making payments for performance, indirectly by changing policies, or both. Second, countries need to set up reliable systems to collect information on changes in forest carbon stocks to secure cash flows from international sources. Finally, countries need to develop institutions, either by setting up new ones or by reforming existing institutions, to manage the upward and downward flow of information and rewards.

One topic that is cropping up more and more in international climate negotiations is the need for REDD+ to be part of 'nationally appropriate mitigation actions (NAMAs)' that encourage low carbon development. Clearly, climate mitigation in developing countries needs to align with developments in other sectors and at other levels (national and international), particularly as regards long-term, full carbon accounting. Making REDD+ part of NAMAs sets the scene for harmonising national mitigation actions across sectors and redirecting development toward low carbon economies.

References

- Adeney, J. M., Christensen Jr, N. L. and Pimm, S. L. 2009 Reserves protect against deforestation fires in the Amazon. PLoS ONE 4(4): e5014.
- Agrawal, A. 2001 Common property institutions and sustainable governance of resources. World Development 29(10): 1649-1672.
- Agrawal, A. 2005 Environmentality. Duke University Press, Raleigh, NC, USA. 344p.
- Agrawal, A. 2007 Forests, governance, and sustainability: common property theory and its contributions. International Journal of the Commons 1(1): 51-76.
- Agrawal, A., Chhatre, A. and Hardin, R. 2008 Changing governance of the world's forests. Science 320(5882): 1460-1462.
- Agrawal, A. and Gibson, C. C. 1999 Enchantment and disenchantment: the role of community in natural resource conservation. World Development 27(4): 629-649.
- Agrawal, A. and Goyal, S. 2001 Group size and collective action: third-party monitoring in common-pool resources. Comparative Political Studies 34(1): 63-93.

- Agrawal, A. and Ostrom, E. 2001 Collective action, property rights, and decentralization in resource use in India and Nepal. Politics and Society 29(4): 485-514.
- Agrawal, A. and Redford, K. 2009 Conservation and displacement: an overview. Conservation and Society 7(1): 1-10.
- Ählström, J. and Sjöström, E. 2005 CSOs and business partnerships: strategies for interaction. Business Strategy and the Environment 14(4): 230-240.
- Alencar, A., Nepstad, D. and Vera-Diaz, M. C. 2006 Forest understory fire in the Brazilian Amazon in ENSO and non-ENSO years: area burned and committed carbon emissions. Earth Interactions 10 (Paper No. 6).
- Alencar, A., Solorzano, L. and Nepstad, D. C. 2004 Modeling forest understory fires in an eastern Amazonian landscape. Ecological Application 14(4): 139-149.
- Alston, L., Libecap, G. and Mueller, B. 1999 Titles, conflict, and land use: the development of property rights and land reform on the Brazilian Amazon frontier. University of Michigan Press, Ann Arbor, MI, USA.
- Alvarado, L. X. R. and Wertz-Kanounnikoff, S. 2007 Why are we seeing 'REDD'? An analysis of the international debate on reducing emissions from deforestation and degradation in developing countries. Analyses. Institut du développement durable et des relations internationales, Paris. 28p.
- Amsberg, J. V. 1998 Economic parameters of deforestation. World Bank Economic Review 12(1): 133-153.
- Anaya, S. J. and Grossman, C. 2002 The case of Awas Tingni v. Nicaragua: a new step in the international law of indigenous peoples. Arizona Journal of International and Comparative Law 19(1): 1-15.
- Andam, K. S., Ferraro, P. J. and Holland, M. B. 2009 What are the social impacts of land use restrictions on local communities? Empirical evidence from Costa Rica. Paper contributed to the Conference of the International Association of Agricultural Economists. Beijing, China, 16-22 August 2009.
- Andam, K. S., Ferraro, P. J., Pfaff, A., Sanchez-Azofeifa, G. A. and Robalino, J. A. 2008 Measuring the effectiveness of protected area networks in reducing deforestation. Proceedings of the National Academy of Sciences 105(42): 16089-16094.
- Anderson, K. 2009 Distorted agricultural incentives and economic development: Asia's experience. World Economy 32(3): 351-384.
- Andersson, K. P. and Gibson, C. C. 2004 Decentralization reforms: help or hindrance to forest conservation? Draft presented to the Conference on

- the International Association of Common Property (IASCP) in Oaxaca, Mexico, 9-13 August.
- Andersson, K. and Gibson, C. C. 2007 Decentralized governance and environmental change: local institutional moderation of deforestation in Bolivia. Journal of Policy Analysis and Management 26(1): 99-123.
- Angelsen, A. 1999 Agricultural expansion and deforestation: modelling the impact of population, market forces and property rights. Journal of Development Economics 58: 185-218.
- Angelsen, A. 2007 Forest cover change in space and time: combining von Thünen and the forest transition. World Bank Policy Research Working Paper 4117. The World Bank, Washington, DC.
- Angelsen, A. 2008a How do we set the reference levels for REDD payments? *In*: Angelsen, A. (ed.) Moving ahead with REDD: issues, options and implications, 53-64. CIFOR, Bogor, Indonesia.
- Angelsen, A. (ed.) 2008b Moving ahead with REDD: issues, options and implications. CIFOR, Bogor, Indonesia. 156p.
- Angelsen, A. and Kaimowitz, D. 1999 Rethinking the causes of deforestation: lessons from economic models. World Bank Research Observer 14(1): 73-98.
- Angelsen, A. and Kaimowitz, D. (eds) 2001 Agricultural technologies and tropical deforestation. CAB International, Wallingford, UK.
- Angelsen, A. and Wertz-Kanounnikoff, S. 2008 What are the key design issues for REDD and the criteria for assessing options? *In*: Angelsen, A. (ed.) Moving ahead with REDD: issues, options and implications. CIFOR, Bogor, Indonesia.
- Angelsen, A., Streck, C., Peskett, L., Brown, J. and Luttrell, C. 2008 What is the right scale for REDD? *In*: Angelsen, A. (ed.) Moving ahead with REDD: issues, options and implications, 31-40. CIFOR, Bogor, Indonesia.
- Antal, M. J. and Gronli, M. 2003 The art, science, and technology of charcoal production. Industrial & Engineering Chemistry Research 42(8): 1619-1640.
- Applegate, G., Putz, F. E. and Snook, L. K. 2004 Who pays for and who benefits from improved timber harvesting practices in the tropics: lessons learned and information gaps. CIFOR, Bogor, Indonesia.
- Araujo, C., Bonjean, C. A., Combes, J.-L., Combes Motel, P. and Reis, E. J. 2009 Property rights and deforestation in the Brazilian Amazon. Ecological Economics 68(8-9): 2461-2468.
- Arifin, B. 2005 Institutional constraints and opportunities in developing environmental service markets: lessons from institutional studies on RUPES in Indonesia. World Agroforestry Centre, Bogor, Indonesia.

- Arnold, J. E. M. and Stewart, W. C. 1991 Common property resource management in India. Oxford Forestry Institute, University of Oxford, Oxford.
- Arnold, J. E. M., Kohlin, G. and Persson, R. 2006 Woodfuels, livelihoods, and policy interventions: changing perspectives. World Development 34(3): 596-611.
- Arriagada, R. A. 2008 Private provision of public goods: applying matching methods to evaluate payments for ecosystem services in Costa Rica. PhD dissertation. North Carolina State University, Raleigh, NC, USA.
- Asner, G. P., Knapp, D. E., Broadbent, E. N., Oliveira, P. J. C., Keller, M. and Silva, J. N. 2005 Selective logging in the Brazilian Amazon. Science 310(5747): 480-482.
- Asquith, N. M., Vargas Ríos, M. T. and Smith, J. 2002 Can forest-protection carbon projects improve rural livelihoods? Analysis of the Noel Kempff Mercado climate action project, Bolivia. Mitigation and Adaptation Strategies for Global Change 7(4): 323-337.
- Auld, G., Gulbrandsen, L. H. and McDermott, C. L. 2008. Certification schemes and the impacts on forests and forestry. Annual Review of Environment and Resources 33: 187-211.
- Baland, J.-M. and Platteau, J.-P. 1996 Halting degradation of natural resources: is there a role for rural communities? Food and Agriculture Organization of the United Nations, Rome. 423p.
- Baland, J.-M. and Platteau, J.-P. 1999 The ambiguous impact of inequality on local resource management. World Development 27(5): 773-788.
- Ballesteros, M. A., Nakhooda, S. and Werksman, J. 2009 Power, responsibility, and accountability: re-thinking the legitimacy of institutions for climate finance. WRI Working Paper. World Resources Institute, Washington, DC. 57p. Available from: http://www.wri.org.
- Bandiaky, S. 2008 Gender inequality in Malidino Biodiversity Reserve, Senegal: political parties and the 'village approach'. Conservation and Society 6(1): 62-73.
- Banerjee, O., Macpherson, A. J. and Alavalapati, J. 2009 Toward a policy of sustainable forest management in Brazil: a historical analysis. The Journal of Environment Development 18(2): 130-153.
- Barber, C. V. and Schweithelm, J. 2000 Trial by fire: forest fires and the forestry policy in Indonesia's era of crisis and reform. World Resources Institute, Washington, DC.
- Barbier, E. B., Damania, R. and Léonard, D. 2005 Corruption, trade and resource conversion. Journal of Environmental Economics and Management 50(2): 276-299.

- Barnett, T. E. 1990 The Barnett report: a summary of the report of the commission of inquiry into aspects of the timber industry in Papua New Guinea. Asia-Pacific Action Group, Hobart, Tasmania.
- Barr, C. A., Dermawan, A., Purnomo, H. and Komarudin, H. In press. Financial governance and Indonesia's reforestation fund: a political economic analysis of lessons for REDD. CIFOR, Bogor, Indonesia.
- Barrett, C. B. and Arcese, P. 1995 Are integrated conservation—development projects (ICDPs) sustainable? On the conservation of large mammals in Sub-Saharan Africa. World Development 23(7): 1073-1084.
- Bauen, A. and Kaltschmitt, M. 2001 Reduction of energy related CO₂ emissions the potential contribution of biomass. *In*: Proceedings of 1st World Conference on Biomass for Energy and Industry, Sevilla, Spain, 5-9 June 2000, Vol. II, 1354-1357.
- Becker, G. S. 1968 Crime and punishment: an economic approach. Journal of Political Economy 76(2): 169.
- Becker, L. C. 2001 Seeing green in Mali's woods: colonial legacy, forest use, and local control. Annals of the Association of American Geographers 91(3): 504-526.
- Benecke, G., Friberg, L., Lederer, M. and Schröder, M. 2008 From public–private partnership to market: the clean development mechanism (CDM) as a new form of governance in climate protection. Sonderforschungsbereich, Berlin.
- Bennear, L. S. and Coglianese, C. 2005 Measuring progress: program evaluation of environmental policies. Environment: Science and Policy for Sustainable Development 47(2): 22-39.
- Bennett, M. T. 2009 Markets for ecosystem services in China. An exploration of China's 'eco-compensation' and other market-based environmental policies. Forest Trends, Washington, DC. 86p.
- Bento, A., Towe, C. and Geoghegan, J. 2007 The effects of moratoria on residential development: evidence from a matching approach. American Journal of Agricultural Economics 89(5): 1211-1218.
- Bertault, J.-G. and Sist, P. 1997 An experimental comparison of different harvesting intensities with reduced-impact and conventional logging in East Kalimantan, Indonesia. Forest Ecology and Management 94(1-3): 209-218.
- Bezemer, D. and Headey, D. 2008 Agriculture, development, and urban bias. World Development 36(8): 1342-1364.
- Bhattacharya, S. C. and Abdul Salam, P. 2002 Low greenhouse gas biomass options for cooking in the developing countries. Biomass and Bioenergy 22(4): 305-317.

- Biermann, F., Chan, S., Mert, A. and Pattberg, P. 2007 Multi-stakeholder partnerships for sustainable development: does the promise hold? *In*: Glasbergen, P., Biermann, F. and Mol, A. (eds) Partnerships, governance and sustainable development: reflections on theory and practice. Edward Elgar, Cheltenham, UK.
- Bond, I., Grieg-Gran, M., Wertz-Kanounnikoff, S., Hazlewood, P., Wunder, S. and Angelsen, A. 2009 Incentives to sustain forest ecosystem services: a review and lessons for REDD. Natural Resources Issues No. 16. International Institute for Environment and Development, London with CIFOR, Bogor, Indonesia and World Resources Institute, Washington, DC. 47p.
- Boserup, E. 1965 The conditions of agricultural growth. The economics of agrarian change under population pressure. Aldine, Chicago, IL, USA.
- Bozmoski, A. and Hepburn, C. 2009 The interminable politics of forest carbon: an EU outlook. Background paper for forest carbon finance summit 2009: making forest carbon markets work. Washington, DC. 6-8 March 2009.
- Brandon, K., Redford, K. and Sanderson, S. (eds) 1998 Parks in peril: people, politics, and protected areas. Island Press, Covelo, CA, USA.
- Bray, D. B., Ellis, E. A., Armijo-Canto, N. and Beck, C. T. 2004 The institutional drivers of sustainable landscapes: a case study of the 'Mayan Zone' in Quintana Roo, Mexico. Land Use Policy 21(4): 333-346.
- Broadhead, J., Bahdon, J. and Whiteman, A. 2001 Woodfuel consumption modeling and results. Annex 2. *In*: Past trends and future prospects for the utilization of wood for energy. GFPOS/WP/05, global forest products outlook study. Food and Agriculture Organization of the United Nations, Rome.
- Brock, K. and Coulibaly, N. G. 1999 Sustainable rural livelihoods in Mali. IDS Research Report No. 35. Institute of Development Studies, Brighton, UK.
- Brockington, D., Igoe, J. and Schmidt-Soltau, K. 2006 Conservation, human rights, and poverty reduction. Conservation Biology 20(1): 250-252.
- Brondizio, E. S. 2008 The Amazonian Caboclo and the Açaí palm: forest farmers in the global market. New York Botanical Garden Press, New York.
- Brown, D., Seymour, F. and Peskett, L. 2008 How do we achieve REDD co-benefits and avoid doing harm? *In*: Angelsen, A. (ed.) Moving ahead with REDD: issues, options and implications, 107-118. CIFOR, Bogor, Indonesia.

- Brown, G. M. 2000 Renewable natural resource management and use without markets. Journal of Economic Literature 38(4): 875-914.
- Brown, K. and Pearce, D. W. E. 1994 The causes and consequences of tropical deforestation: the economic and statistical analysis of factors giving rise to the loss of tropical forests. UBC Press, London. 338p.
- Bruce, J. 1998 Learning from comparative experience with agrarian reform. Presented to International Conference on Land Tenure in the Developing World. Cape Town, South Africa, 27–29 January 1998.
- Bruner, A. G., Gullison, R. E., Rice, R. E. and Fonseca, G. A. B. da 2001 Effectiveness of parks in protecting tropical biodiversity. Science 291: 125-128.
- Brunswick Research 2009 WWF 2009 forest carbon investor survey: research summary. Available from: http://assets.panda.org/downloads/2009_forest_carbon_investor_research_report.pdf (12 Nov. 2009).
- Bullock, S., Childs, M. and Picken, T. 2009 A dangerous distraction. Why offsetting is failing the climate and people: the evidence. Friends of the Earth, London.
- Bulte, E. H., Damania, R. and López, R. 2007 On the gains of committing to inefficiency: corruption, deforestation and low land productivity in Latin America. Journal of Environmental Economics and Management 54(3): 277-295.
- Börner, J., Wunder, S., Wertz-Kanounnikoff, S., Rügnitz-Tito, M., Pereira, L. and Nascimento, N. In press. Direct conservation payments in the Brazilian Amazon: scope and equity implications. Ecological Economics in press.
- Campbell, A., Miles, L., Lysenko, I., Hughes, A. and Gibbs, H. 2008 Carbon storage in protected areas: technical report. The United Nations Environment Programme World Conservation Monitoring Centre, Cambridge, UK.
- Campbell, B. M. (ed.) 1996 The Miombo in transition: woodlands and welfare in Africa. CIFOR, Bogor, Indonesia.
- Casson, A. and Obidzinski, K. 2007 From new order to regional autonomy: shifting dynamics of illegal logging in Kalimantan, Indonesia. *In*: Tacconi, L. (ed.) Illegal logging: law enforcement, livelihoods and the timber trade. Earthscan, London.
- Cavendish, W. 2000 Empirical regularities in the poverty–environment relationship of rural households: evidence from Zimbabwe. World Development 28(11): 1979-2000.
- CCBA 2008 Climate, community and biodiversity project design standards. 2nd ed. The Climate, Community, and Biodiversity Alliance, Arlington,

- VA, USA. Available from: http://www.climate-standards.org/standards/pdf/ccb_standards_second_edition_december_2008.pdf.
- Cerbu, G., Minang, P., Swallow, B. and Meadu, V. 2009 Global survey of REDD projects: what implications for global climate objectives? ASB Policy Brief No. 12. ASB Partnership for the Tropical Forest Margins, Nairobi, Kenya. Available from: www.asb.cgiar.org.
- Cerutti, P. O. and Tacconi, L. 2008 Forests, illegality, and livelihoods: the case of Cameroon. Society & Natural Resources 21(9): 845-853.
- Cerutti, P. O., Nasi, R. and Tacconi, L. 2008 Sustainable forest management in Cameroon needs more than approved forest management plans. Ecology and Society 13(2): 36.
- CGD 2009 Cash on delivery: progress-based aid for education. Center for Global Development. Available from: http://www.cgdev.org/section/initiatives/_active/codaid (12 Nov. 2009).
- Chapin, M., Lamb, Z. and Threlkeld, B. 2005 Mapping indigenous lands. Annual Review of Anthropology 34: 619-638.
- Charnley, S. and Poe, M. 2007 Community forestry in theory and practice: where are we now? Annual Review of Anthropology 32: 301-336.
- Chazdon, R. L. 2008 Beyond deforestation: restoring forests and ecosystem services on degraded lands. Science 320(5882): 1458-1460.
- Chhatre, A. 2007 Accountability in decentralization and the democratic context: theory and evidence from India. Representation, Equity and Environment Working Paper No. 23. World Resources Institute, Washington, DC.
- Chhatre, A. and Agrawal, A. 2008 Forest commons and local enforcement. Proceedings of the National Academy of Sciences 105(36): 13186-13191.
- Chhatre, A. and Agrawal, A. 2009 Trade-offs and synergies between carbon storage and livelihood benefits from forest commons. Proceedings of the National Academy of Sciences 106(42): 17667-17670.
- Chidumayo, E. N. 1989 Land use, deforestation and reforestation in the Zambian Copperbelt. Land Degradation and Development 1(3): 209-216.
- Chomitz, K. M., Buys, P., De Luca, G., Thomas, T. and Wertz-Kanounnikoff, S. 2007 At loggerheads? Agricultural expansion, poverty reduction, and environment in the tropical forests. A World Bank Policy Research Report. The World Bank, Washington, DC.
- Coad, L., Campbell, A., Clark, S., Bolt, K., Roe, D. and Miles, L. 2008 Protecting the future: carbon, forests, protected areas and local livelihoods. Revised ed. The United Nations Environment Programme World Conservation Monitoring Centre, Cambridge, UK.

- Colchester, M. 2006 Forest peoples, customary use and state forests: the case for reform. Paper to 11th Biennial Congress of the International Association for the Study of Common Property. Bali, Indonesia. 19-22 June 2006.
- Colchester, M. 2007 Beyond tenure: rights-based approaches to people and forests: some lessons from the Forest Peoples Programme. Paper to the International Conference on Poverty Reduction in Forests: Tenure, Markets and Policy Reforms, Bangkok, Thailand, 3-7 September 2007. Forest Peoples Programme, London.
- Colchester, M., Boscolo, M., Contreras-Hermosilla, A., Del Gatto, F., Dempsey, J., Lescuyer, G., Obidzinski, K., Pommier, D., Richards, M., Sembiring, S. N. *et al.* 2006 Justice in the forest: rural livelihoods and forest law enforcement. CIFOR, Bogor, Indonesia.
- Colfer, C. J. P. 2005 The complex forest: communities, uncertainty, and adaptive collaborative management. Resources of the Future, Washington, DC and CIFOR, Bogor, Indonesia. 370p.
- Collomb, J. G. and Bikie, H. 2001 1999–2000 Allocation of logging permits in Cameroon: fine-tuning central Africa's first auction system. Global Forest Watch Cameroon and World Resources Institute, Washington, DC.
- Contreras, A. 2003 Creating space for local forest management: the case of the Philippines. *In*: Edmunds, D. and Wollenburg, E. (eds) Local forest management: the impacts of devolution policies, 127-149. Earthscan, London.
- Contreras-Hermosilla, A. 1997 The 'cut-and-run' course of corruption in the forestry sector. Journal of Forestry 95: 33-36.
- Contreras-Hermosilla, A. 2000 The underlying causes of forest decline. Occasional Paper No. 30. CIFOR, Bogor, Indonesia.
- Contreras-Hermosilla, A. and Vargas Rios, M. T. 2002 Social, environmental and economic dimensions of forest policy reforms in Bolivia. Forest Trends, Washington, DC and CIFOR, Bogor, Indonesia.
- Conyers, D. 2001 Whose elephants are they? Decentralization of control over wildlife management through the CAMPFIRE programme in Binga District, Zimbabwe. Working Paper No. 31. World Research Institute, Washington, DC.
- Cooke, P., Köhlin, G. and Hyde, W. F. 2008 Fuelwood, forests and community management evidence from household studies. Environment and Development Economics 13(01): 103-135.
- Coomes, O. T., Grimard, F., Potvin, C. and Sima, P. 2008 The fate of the tropical forest: carbon or cattle? Ecological Economics 65(2): 207-212.

- Corbera, E., Kosoy, N. and Martínez Tuna, M. 2007 Equity implications of marketing ecosystem services in protected areas and rural communities: case studies from Meso-America. Global Environmental Change 17(3-4): 365-380.
- Costello, C., Gaines, S. D. and Lynham, J. 2008 Can catch shares prevent fisheries collapse? Science 321(5896): 1678-1681.
- Cotula, L., Vermeulen, S., Leonard, R. and Keeley, J. 2009 Land grab or development opportunity? Agricultural investment and international land deals in Africa. International Institute for Environment and Development, London and Food and Agriculture Organization of the United Nations and International Fund for Agricultural Development, Rome. 120p. Available from: ftp://ftp.fao.org/docrep/fao/011/ak241e/ak241e.pdf.
- Coughenour, C. 2003 Innovating conservation agriculture: the case of notill cropping. Rural Sociology 68(2): 278-304.
- Cronkleton, P., Pacheco, P., Ibarguen, R. and Albornoz, M. A. 2009 Reformas en la tenencia de la tierra y los bosques: la gestión comunal en las tierras bajas de Bolivia. CIFOR and Centro de Estudios para el Desarrollo Laboral y Agrario, La Paz, Bolivia.
- Crook, R. C. and Sverrisson, A. S. 2001 Decentralization and povertyalleviation in developing countries: a comparative analysis, or is West Bengal unique? IDS Working Paper No. 130. Institute of Development Studies Brighton, UK.
- Culas, R. J. 2007 Deforestation and the environmental Kuznets curve: an institutional perspective. Ecological Economics 61(2-3): 429-437.
- Curran, L. M., Trigg, S. N., McDonald, A. K., Astiani, D., Hardiono, Y. M., Siregar, P., Caniago, I. and Kasischke, E. 2004 Lowland forest loss in protected areas of Indonesian Borneo. Science 303(5660): 1000-1003.
- Dachang, L. and Edmunds, D. 2003 The promises and limitations of devolution and local forest management in China. *In*: Edmunds, D. and Wollenburg, E. (eds) Local forest management: the impacts of devolution policies, 20-54. Earthscan, London.
- Dahal, G. R., Larson, A. M. and Pacheco, P. In press. Outcomes of reform for livelihoods, forest condition and equity. *In*: Larson, A. M., Barry, D., Dahal, G. R. and Colfer, C. J. P. (eds) Forests for people: community rights and forest tenure reform. Earthscan, London.
- Damania, R., Fredriksson, P. G. and List, J. A. 2003 Trade liberalization, corruption, and environmental policy formation: theory and evidence. Journal of Environmental Economics and Management 46(3): 490-512.
- Danielsen, F., Burgess, N. D., Balmford, A., Donald, P. F., Funder, M., Jones, J. P. G., Alviola, P., Balete, D. S., Blomley, T., Brashares, J.

- *et al.* 2009 Local participation in natural resource monitoring: a characterization of approaches. Conservation Biology 23(1): 31-42.
- Davis, C., Daviet, F., Nakhooda, S. and Thuault, A. 2009 A review of 25 readiness plan idea notes from the World Bank Forest Carbon Partnership Facility. WRI Working Paper. World Resources Institute, Washington, DC.
- de Graaf, N. R. 2000 Reduced impact logging as part of the domestication of neotropical rainforest. International Forestry Review 2(1): 40-44.
- de Jong, W. 2001 The impact of rubber on the forest landscape in Borneo. In: Angelsen, A. and Kaimowitz, D. (eds) Agricultural technologies and tropical deforestation. CAB International, Wallingford, UK.
- de Mendonça, M. J. C., Vera Diaz, M. d. C., Nepstad, D., Seroa da Motta, R., Alencar, A., Gomes, J. C. and Ortiz, R. A. 2004 The economic cost of the use of fire in the Amazon. Ecological Economics 49(1): 89-105.
- de Sherbinin, A. 2002 A guide to land-use and land-use cover change (LUCC). A collaborative effort of SEDAC and the IGBP/IHDP LUCC Project. Columbia University, New York. http://sedac.ciesin.columbia.edu/tg/guide_frame.jsp?rd=LU&ds=1 (1 Nov. 2009).
- DeFries, R., Hansen, A., Newton, A. C. and Hansen, M. C. 2005 Increasing isolation of protected areas in tropical forests over the past twenty years. Ecological Applications 15(1): 19-26.
- Dietz, T., Ostrom, E. and Stern, P. C. 2003 The struggle to govern the commons. Science 302(5652): 1907-1912.
- Djogo, T. and Syaf, R. 2003 Decentralization without accountability: power and authority over local forest governance in Indonesia. *In*: Suryanata, D., Fox, J. and Brennan, S. (eds) Issues of decentralization and federation in forest governance: proceedings from the Tenth Workshop on Community-based Management of Forestlands, 9-25. East-West Center, Honolulu, Hawaii.
- Dugan, P. C., Durst, P. B., Ganz, D. J. and Mckenzie, P. J. 2003 Advancing assisted natural regeneration (ANR) in Asia and the Pacific. FAO Regional Office for Asia and the Pacific, Bangkok, Thailand.
- Durst, P. B., McKenzie, P. J., Brown, C. L. and Appanah, S. 2006 Challenges facing certification and eco-labelling of forest products in developing countries. International Forestry Review 8(2): 193-200.
- Dutschke, M. 2009 The climate stabilization fund: global auctioning of emission allowances to help forests and people. *In*: Filho, W. L. and Mannke, F. (eds) Interdisciplinary aspects of climate change, 103-120. Peter Lang Scientific, Frankfurt and New York.

- Dutschke, M. and Wertz-Kanounnikoff, S. 2008 Financing REDD: linking country needs and financing sources. Infobrief No.17. CIFOR, Bogor, Indonesia.
- Dutschke, M., Wertz-Kanounnikoff, S., Peskett, L., Luttrell, C., Streck, C. and Brown, J. 2008 Mapping potential sources of REDD financing to different needs and national circumstances. CIFOR, Bogor, Indonesia, Amazon Environmental Research Institute, Brasilia, and Overseas Development Institute, London.
- Dykstra, D. and Elias 2003 RIL becomes real in Brazil. International Tropical Timber Organization Tropical Forest Update 13/4.
- Ebeling, J. and Yasué, M. 2009 The effectiveness of market-based conservation in the tropics: forest certification in Ecuador and Bolivia. Journal of Environmental Management 90(2): 1145-1153.
- EC 2008 Addressing the challenges of deforestation and forest degradation to tackle climate change and biodiversity loss. Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions. Com(2008) 645/3. European Comission, Brussels.
- Echavarría, M., Vogel, J., Albán, M. and Meneses, F. 2004 The impacts of payments for watershed services in Ecuador. Markets for Environmental Services 4. International Institute for Environment and Development, London. 61p.
- Ecosecurities 2009 The forest carbon offsetting survey 2009. EcoSecurities, Dublin, Ireland. Available from: http://www.ecosecurities.com/Standalone/Forest_Carbon_Offsetting_Trends_Survey_2009/default.aspx.
- Elbow, K., Furth, R., Knox, A., Bohrer, K., Hobbs, M., Leisz, S. and Williams, M. 1998 Synthesis of trends and issues raised by land tenure country profiles of West African countries, 1996. *In*: Bruce, J. (ed.) Country profiles of land tenure: Africa, 1996. Research Paper No. 130. Land Tenure Center, University of Wisconsin, Madison, WI, USA. Available from: http://pdf.wri.org/ref/elbow_98_synthesis.pdf (1 Nov. 2009).
- Elías, S. and Whittman, H. 2005 State, forest and community: decentralization of forest administration in Guatemala. *In*: Pierce, C. and Capistrano, D. (eds) The politics of decentralization: forests, power and people, 282-296. Earthscan, London.
- Eliasch, J. 2008 Climate change: financing global forests. The Eliasch review. Office of Climate Change, London.
- Ellsworth, L. and White, A. 2004 Deeper roots: strengthening community tenure security and community livelihoods. Ford Foundation, New

- York. Available from: http://www.fordfound.org/pdfs/impact/deeper_roots.pdf.
- Elmqvist, T., Pyykönen, M., Tengö, M., Rakotondrasoa, F., Rabakonandrianina, E. and Radimilahy, C. 2007 Patterns of loss and regeneration of tropical dry forest in Madagascar: the social institutional context. PLoS ONE 2(5): e402.
- Evans, J. and Turnbull, J. W. 2004 Plantation forestry in the tropics: the role, silviculture, and use of planted forests for industrial, social, environmental, and agroforestry purposes. 3rd ed. Oxford University Press, Oxford. 467p.
- Ezzine de Blas, D. and Ruiz Pérez, M. 2008 Prospects for reduced impact logging in Central African logging concessions. Forest Ecology and Management 256(7): 1509-1516.
- Fan, C. S., Lin, C. and Treisman, D. 2009 Political decentralization and corruption: evidence from around the world. Journal of Public Economics 93(1-2): 14-34.
- FAO 1985 Tropical forestry action plan. Food and Agriculture Organization of the United Nations, Rome. http://www.ciesin.columbia.edu/docs/002-162/002-162.html.
- FAO 2001 State of the world's forests 2001. Food and Agriculture Organization of the United Nations, Rome.
- FAO 2005 Best practices for improving law compliance in the forestry sector. Forestry Paper No. 145. Food and Agriculture Organization of the United Nations, Rome.
- FAO 2006 Global forest resource assessment 2005. Progress towards sustainable forest management. Food and Agriculture Organization of the United Nations, Rome.
- FAO 2009a FAOSTAT. Food and Agricultural Organization of the United Nations, Rome. http://faostat.fao.org/default.aspx (22 Sep. 2009).
- FAO 2009b FAOSTAT. Food and Agriculture Organization of the United Nations, Rome. http://faostat.fao.org/site/626/default.aspx#ancor (9 Oct. 2009).
- FAO 2009c Forest tenure assessment. Food and Agriculture Organization of the United Nations, Rome. http://www.fao.org/forestry/tenure/en/ (1 Nov. 2009).
- Ferraro, P. 2009 Regional review of payments for watershed services: Sub-Saharan Africa. Journal of Sustainable Forestry 28(3-4): 525-550.
- Ferraro, P. J. and Pattanayak, S. K. 2006 Money for nothing? A call for empirical evaluation of biodiversity conservation investments. PLoS Biology 4(4): 482-488.

- Finley-Brook, M. 2007 Indigenous land tenure insecurity fosters illegal logging in Nicaragua. International Forestry Review 9(4): 850-864.
- Fitzpatrick, D. 2006 Evolution and chaos in property rights systems: the third world tragedy. Yale Law Journal 115: 996-1048.
- Forest Carbon Partnership Facility (FCPF) 2009 REDD implementation framework. Presented to Global Dialogues on R-PP Preparation, 13–14 August. (www.forestcarbonpartnership.org/fcp/sites/forestcarbonpartnership.org/files/Documents/PDF/Oct2009/Day%20 2_2%20REDD_Implementation_Framework.pdf).
- Forest Peoples Programme (FPP) 2008 The Forest Carbon Partnership Facility: facilitating the weakening of indigenous peoples' rights to lands and resources. Forest Peoples Programme, Moreton-in-Marsh, UK.
- Forest Peoples Programme (FPP) 2007 Making FPIC free, prior and informed consent work: challenges and prospects for indigenous peoples. FPIC Working Papers. Forest Peoples Programme, Moreton-in-Marsh, UK.
- Forsyth, T. 2007 Promoting the 'development dividend' of climate technology transfer: can cross-sector partnerships help? World Development 35(10): 1684-1698.
- Forsyth, T. and Walker, A. 2008 Forest guardians, forest destroyers: the politics of environmental knowledge in northern Thailand. University of Washington Press, Seattle, WA, USA.
- Fox, J. 2002 Siam mapped and mapping in Cambodia: boundaries, sovereignty, and indigenous conceptions of space. Society and Natural Resources 15: 65-78.
- Fox, J. 2008 The production of forests: tree cover transitions in Thailand, Laos, and southern China. Paper to the Social Life of Forests conference. University of Chicago, Chicago, IL, USA, May 2008.
- Friends of the Earth 2009 Cana Bois: plundering protected areas in Cameroon for the European market. Friends of the Earth, Yaoundé, Cameroon.
- Frondel, M. and Schmidt, C. M. 2005 Evaluating environmental programs: the perspective of modern evaluation research. Ecological Economics 55(4): 515-526.
- Gaston, K. J., Jackson, S. F., Cantú-Salazar, L. and Cruz-Piñón, G. 2008 The ecological performance of protected areas. Annual Review of Ecology, Evolution, and Systematics 39(1): 93-113.
- Gaveau, D. L. A., Epting, J., Lyne, O., Linkie, M., Kumara, I., Kanninen, M. and Leader-Williams, N. 2009 Evaluating whether protected areas reduce tropical deforestation in Sumatra. Journal of Biogeography 36(11): 2165-2175.

- Gebremedhin, B., Pender, J. and Tesfay, G. 2003 Community natural resource management: the case of woodlots in northern Ethiopia. Environment and Development Economics 8(1): 129-148.
- GEF 1998 GEF evaluation of experience with conservation trust funds. GEF/C.12/Inf.6. Global Environment Facility, Washington, DC.
- Geist, H. J. and Lambin, E. F. 2001 What drives tropical deforestation? A meta-analysis of proximate and underlying causes of deforestation based on subnational case study evidence. CC Report Series No. 4. Land-Use and Land-Cover Change International Project Office, Louvain-la-Neuve, Belgium. 115p.
- Geist, H. J. and Lambin, E. F. 2002 Proximate causes and underlying driving forces of tropical deforestation. BioScience 52(2): 143-150.
- Ghimire, K. B. and Pimbert, M. P. (eds) 1997 Social change and conservation. Earthscan, London. 352p.
- Gibbs, H. K., Brown, S., Niles, J. O. and Foley, J. A. 2007 Monitoring and estimating tropical forest carbon stocks: making REDD a reality. Environmental Research Letters 4(2): 045023.
- Gibson, C. C., Williams, J. T. and Ostrom, E. 2005 Local enforcement and better forests. World Development 33(2): 273-284.
- Giglio, L., Csiszar, I., Restás, Á., Morisette, J. T., Schroeder, W., Morton, D. and Justice, C. O. 2008 Active fire detection and characterization with the advanced spaceborne thermal emission and reflection radiometer (ASTER). Remote Sensing of Environment 112(6): 3055-3063.
- Glasbergen, P. 2007 Setting the scene: the partnership paradigm in the making. *In*: Glasbergen, P., Biermann, F. and Mol, A. (eds) Partnerships, governance and sustainable development: reflections on theory and practice, 1-25. Edward Elgar, Cheltenham, UK.
- Global Witness 2009 Honest engagement: transparency and civil society participation in REDD. Global Witness, London.
- GOFC-GOLD 2009 Reducing greenhouse gas emissions from deforestation and degradation in developing countries: a sourcebook of methods and procedures for monitoring, measuring and reporting, GOFC-GOLD Report version COP14-2. GOFC-GOLD Project Office, Natural Resources Canada, Alberta, Canada. http://www.gofc-gold.uni-jena.de/redd.
- Goldstein, M. and Udry, C. 2008 The profits of power: land rights and agricultural investment in Ghana. Journal of Political Economy 116(6): 981-1022.
- Gould, K. A., Carter, D. R. and Shrestha, R. K. 2006 Extra-legal land market dynamics on a Guatemalan agricultural frontier: implications for neoliberal land policies. Land Use Policy 23(4): 408-420

- Government of Vietnam 2008 Readiness plan ideas note (RPIN). The Forest Carbon Partnership Facility Washington, DC. http://www.forestcarbonpartnership.org/fcp/VN.
- Granda, P. 2005 Carbon sink plantations in the Ecuadorian Andes: impacts of the Dutch FACE-PROFAFOR monoculture tree plantations' project on indigenous and peasant communities. WRM Series on Tree Plantations No. 1. World Rainforest Movement, Montevideo, Uruguay.
- Grassi, G., Monni, S., Federici, S., Achard, F. and Mollicone, D. 2008 Applying the conservativeness principle to REDD to deal with the uncertainties of the estimates. Environmental Research Letters 3(3): 035005.
- Gray, J. A. 2002 Forest concession policies and revenue systems: country experience and policy changes for sustainable tropical forestry. World Bank Technical Paper No. 522. The World Bank, Washington, DC.
- Greenpeace 2007 Carving up the Congo. Greenpeace, London. http://www.greenpeace.org.uk/media/reports/carving-up-the-congo.
- Greenpeace 2009 Summary of the 'REDD from the Conservation Perspective' report. Commissioned by Greenpeace from the University of Freiburg Institute of Forest Policy. http://www.greenpeace.org/raw/content/usa/press-center/reports4/greenpeace-summary-of-the-red.pdf.
- Griffiths, T. 2005 Indigenous peoples and the World Bank: experiences with participation. Forest Peoples Programme, Moreton-in-Marsh, UK.
- Griffiths, T. 2008 Seeing 'REDD'? Forests, climate change mitigation and the rights of indigenous peoples and local communities. Update for Poznan (UNFCCC COP 14). Forest Peoples Programme, Moreton-in-Marsh, UK.
- Griffiths, T. 2007 Seeing 'RED'? 'Avoided deforestation' and the rights of indigenous peoples and local communities. Forest Peoples Programme, Moreton-in-Marsh, UK. http://www.forestpeoples.org/.
- Grindeff, I. 2009. Eco firm pays out for PNG carbon trading. The Age, 18 June. http://news.theage.com.au/breaking-news-world/eco-firm-pays-out-for-png-carbon-trading-20090618-cj1r.html.
- Grondard, N., Loisel, C., Martinet, A. and Routier, J. B. 2008 Analysis of 7 outstanding issues for the inclusion of tropical forests in the international climate governance. Office National des Forêts, Paris.
- Guariguata, M. R., Cornelius, J. P., Locatelli, B., Forner, C. and Sánchez-Azofeifa, G. A. 2008 Mitigation needs adaptation: tropical forestry and climate change. Mitigation and Adaptation Strategies for Climate Change 13(8): 793-808.

- Gupta, G. and Köhlin, G. 2006 Preferences for domestic fuel: analysis with socio-economic factors and rankings in Kolkata, India. Ecological Economics 57(1): 107-121.
- Gupta, A. and Siebert, U. 2004 Combating forest corruption: the forest integrity network. Journal of Sustainable Forestry 19(1-3): 337-349.
- Gustafsson, O., Krusa, M., Zencak, Z., Sheesley, R. J., Granat, L., Engstrom, E., Praveen, P. S., Rao, P. S. P., Leck, C. and Rodhe, H. 2009 Brown clouds over South Asia: biomass or fossil fuel combustion? Science 323(5913): 495-498.
- Hajer, M. 1996 Ecological modernization as cultural politics. *In*: Lash, S., Szerszynski, B. and Wynne, B. (eds) Risk, environment and modernity: towards a new ecology, 246-268. Sage, London.
- Hajer, M. and Wagenaar, H. (eds) 2003 Deliberative policy analysis: understanding governance in the network society. Cambridge University Press, Cambridge, UK.
- Hamilton, K., Sjardin, M., Shapiro, A. and Marcello, T. 2009 Fortifying the foundation: state of the voluntary carbon markets 2009. Ecosystem Marketplace, New York and New Carbon Finance, Washington, DC. http://ecosystemmarketplace.com/documents/cms_documents/StateOfTheVoluntaryCarbonMarkets_2009.pdf (12 Nov. 2009).
- Hansen, C. P. and Treue, T. 2008 Assessing illegal logging in Ghana. International Forestry Review 10(4): 573-590.
- Harvey C., Zerbock O., Papageorgiou S. and Parra A. [in press]. What is needed to make REDD work on the ground? Lessons learned from pilot forest carbon initiatives. Conservation International, Arlington, Virginia, USA.
- Healey, J. R., Price, C. and Tay, J. 2000 The cost of carbon retention by reduced impact logging. Forest Ecology and Management 139(1-3): 237-255.
- Henman, J., Hamburg, S. and Vega, A. S. 2008 Feasibility and barriers to entry for small-scale CDM forest carbon projects: a case study from the northeastern Peruvian Amazon. The Carbon & Climate Law Review 2(3): 254-263.
- Herold, M. 2009 An assessment of national forest monitoring capabilities in tropical non-Annex I countries: recommendations for capacity building. The Prince's Rainforests Project, London, and the Government of Norway, Oslo, Norway. 62p. http://princes.3cdn.net/8453c17981d0ae3cc8_q0m6vsqxd.pdf (4 Nov. 2009).
- Heyman, J. and Ariely, D. 2004 Effort for payment. A tale of two markets. Psychological Science 15(11): 787-793.

- Hofstad, O. 1997 Woodland deforestation by charcoal supply to Dar es Salaam. Journal of Environmental Economics and Management 33: 17-32.
- Hofstad, O. 2008 A theoretical analysis of illegal wood harvesting as predation with two Ugandan illustrations. Scandinavian Forest Economics 42: 441-452.
- Holck, M. 2008 Participatory forest monitoring: an assessment of the accuracy of simple cost-effective methods. Biodiversity and Conservation 17(8): 2023-2036.
- Holden, S. 2001 A century of technological change and deforestation in the miombo woodlands of northern Zambia. *In*: Angelsen, A. and Kaimowitz, D. (eds) Agricultural technologies and tropical deforestation. CAB International, Wallingford, UK.
- Holland, J. M. 2004 The environmental consequences of adopting conservation tillage in Europe: reviewing the evidence. Agriculture, Ecosystems & Environment 103(1): 1-25.
- Holmes, T. P., Blate, G. M., Zweede, J. C., Pereira, R., Barreto, P., Boltz,
 F. and Bauch, R. 2002 Financial and ecological indicators of reduced impact logging performance in the eastern Amazon. Forest Ecology and Management 163(1-3): 93-110.
- Honey-Rosés, J. 2009 Illegal logging in common property forests. Society & Natural Resources: An International Journal 22(10): 916-930.
- Huang, M., Upadhyaya, S. K., Jindal, R. and Kerr, J. 2009 Payments for watershed services in Asia: a review of current initiatives. Journal of Sustainable Forestry 28(3): 551-575.
- Huther, J. and Shah, A. 2000 Anti-corruption policies and programs: a framework for evaluation. Policy Research Working Paper 2501. The World Bank, Washington, DC.
- Hutton, J. M., Adams, W. M. and Murombedzi, J. C. 2005 Back to the barriers? Changing narratives in biodiversity conservation. Forum for Development Studies 17: 365-380.
- Ibrekk, H. O. and Studsrød, J. E. 2009 Review of the embassy's development assistance portfolio: environment and climate change. 'Greening and climate proofing of the portfolio'. Norad Report 1/2009 discussion. Norwegian Agency for Development Cooperation, Oslo. 39p.
- IEA 2006 World energy outlook. International Energy Agency, Paris.
- IETA 2009 IETA's principles for reducing emissions and enhancing sequestration in the land-use sector. International Emissions Trading Association, Geneva. http://www.ieta.org/ieta/www/pages/getfile.php?docID=3278 (24 Nov. 2009).

- ILO 1990 Occupational safety and health in forestry. International Labour Organization, Geneva.
- Ingram, J., Stevens, T., Clements, T., Hatchwell, M., Krueger, L., Victurine, R., Holmes, C. and Wilkie, D. 2009 WCS REDD project development guide. TransLinks. http://www.translinks.org/ToolsandTrainingMaterials/tabid/2064/language/en-US/Default.aspx (13 Nov. 2009).
- IPCC 2003 Good practice guidance for land use, land-use change and forestry. Penman, J. *et al.* (eds). National Greenhouse Gas Inventories Programme, Institute for Global Environmental Strategies, Kanagawa, Japan.
- IPCC 2006 IPCC Guidelines for national greenhouse gas inventories. Eggleston, H. S., Buendia, L., Miwa, K., Ngara, T. and Tanabe, K. (eds). National Greenhouse Gas Inventories Programme, Institute for Global Environmental Strategies, Kanagawa, Japan.
- IPCC 2007 IPCC fourth assessment report. Report by Working Group I, The physical science basis. Cambridge University Press, Cambridge, UK.
- IWG-IFR 2009 Report of the informal working group on interim finance for REDD+. Informal Working Group on Interim Finance for REDD. http://www.unredd.net/index.php?option=com_docman&task=doc_details&Itemid=&gid=1096 (12 Nov. 2009).
- Jack, B. K., Leimona, B. and Ferraro, P. 2009 A revealed preference approach to estimating supply curves for ecosystem services: use of auctions to set payments for soil erosion control in Indonesia. Conservation Biology 23(2): 359-367.
- Jagger, P. 2008 Forest incomes after Uganda's forest sector reform: are the poor gaining? CGIAR Systemwide Program on Collective Action and Property Rights (CAPRi). Working Paper Series No. 92. International Food Policy Research Institute, Washington, DC.
- Jagger, P. 2009 Forest sector reform, livelihoods and sustainability in western Uganda. *In*: German, L., Karsenty, A. and Tiani, A. M. (eds) Governing Africa's forests in a globalized world. Earthscan, Washington, DC and CIFOR, Bogor, Indonesia.
- Jagger, P., Pender, J. and Gebremedhin, B. 2005 Trading off environmental sustainability for empowerment and income: woodlot devolution in northern Ethiopia. World Development 33(9): 1491-1510.
- Jayasuriya, S. 2001 Agriculture and deforestation in tropical Asia: an analytical framework. *In*: Angelsen, A. and Kaimowitz, D. (eds) Agricultural technologies and tropical deforestation. CAB International, Wallingford, UK.

- Jindal, R., Swallow, B. and Kerr, J. 2008 Forestry-based carbon sequestration projects in Africa: potential benefits and challenges. Natural Resources Forum 32(2): 116-130.
- Johns, T. and Johnson, E. 2009 An overview of readiness for REDD: a compilation of readiness activities prepared on behalf of the Forum on Readiness for REDD, Version 1.2. The Woods Hole Research Center Falmouth, MA, USA. http://www.whrc.org/Policy/REDD/ (12 Nov. 2009).
- Johns, J. S., Barreto, P. and Uhl, C. 1996 Logging damage during planned and unplanned logging operations in the eastern Amazon. Forest Ecology and Management 89(1-3): 59-77.
- Johns, T., Merry, F., Stickler, C., Nepstad, D., Laporte, N. and Goetza, S. 2008 A three-fund approach to incorporating government, public and private forest stewards into a REDD funding mechanism. International Forestry Review 10(3): 458-464.
- Jumbe, C. and Angelsen, A. 2006 Do the poor benefit from devolution policies? Evidence from forest co-management in Malawi. Land Economics 82(4): 562-581.
- K:TGAL 2008 Progress report. Kyoto: Think Global, Act Local. University of Twente, Enschede, Netherlands. Unpublished project material.
- Kaimowitz, D. 2003 Forest law enforcement and rural livelihoods. International Forestry Review 5(3): 199-210.
- Kaimowitz, D. and Angelsen, A. 1998 Economic models of tropical deforestation. A review. CIFOR, Bogor, Indonesia. 139p.
- Kaimowitz, D. and Angelsen, A. 2008 Will livestock intensification help save Latin America's forests? Journal of Sustainable Forestry 27(1-2): 6-24.
- Kaimowitz, D., Byron, N. and Sunderlin, W. D. 1998 Public policies to reduce inappropriate tropical deforestation. *In*: Lutz, E. (ed.) Agriculture and environment: perspectives on sustainable rural development. The World Bank, Washington, DC.
- Kalumiana, O. S. and Kisakye, R. 2001 Study on the establishment of a sustainable charcoal production and licensing system in Masindi and Nakasongola Districts. Report prepared for ACDI/VOCA EPED Project. Masindi, Uganda.
- Kammen, D. M. 2000 Case study #1: research, development and commercialization of the Kenya Ceramic Jiko (KCJ), methodological and technological issues in technology transfer. Cambridge University Press, Cambridge, UK and New York.
- Kanninen, M., Murdiyarso, D., Seymour, F., Angelsen, A., Wunder, S. and German, L. 2007 Do trees grow on money? The implications

- of deforestation research for policies to promote REDD. Forest Perspectives 4. CIFOR, Bogor, Indonesia.
- Karky, B. S. 2008 The economics of reducing emissions from community managed forest in Nepal Himalaya. PhD Thesis, University of Twente, Enschede, Netherlands.
- Karousakis, K. 2007 Incentives to reduce GHG emissions from deforestation: lessons from Costa Rica and Mexico. Organisation for Economic Cooperation and Development, Paris.
- Karsenty, A. In press. Forest taxation regime for tropical forests: lessons from central Africa. International Forestry Review.
- Karsenty, A., Drigo, I. G., Piketty, M.-G. and Singer, B. 2008 Regulating industrial forest concessions in central Africa and South America. Forest Ecology and Management 256(7): 1498-1508.
- Kaufmann, D., Kraay, A. and Mastruzzi, M. 2006 Governance matters V: governance indicators for 1996-2005. World Bank Policy Research Working Paper 4012. The World Bank, Washington, DC.
- Kaufmann, D., Kraay, A. and Mastruzzi, M. 2008 Governance mattersVIII: aggregate and individual governance indicators, 1996-2008.Policy Research Working Paper 4978. The World Bank, Washington, DC. 105p.
- Keeley, J. and Scoones, I. 1999 Understanding environmental policy processes: a review. IDS Working Papers 89. Institute of Development Studies, Brighton, UK.
- Kern, K. and Bulkeley, H. 2009 Cities, Europeanization and multi-level governance: governing climate change through transnational municipal networks. Journal of Common Market Studies 47(2): 309-332.
- Killick, T. 2004 Politics, evidence and the new aid agenda. Development Policy Review 22(1): 5-29.
- Kishor, N. and Damania, R. 2007 Crime and justice in the Garden of Eden: improving governance and reducing corruption in the forestry sector.*In*: Campos, E. J. and Pradhan, S. (eds) The many faces of corruption. The World Bank, Washington, DC.
- Knöpfle, M. 2004 A study on charcoal supply in Kampala. Ministry of Energy and Mineral Development, Kampala, Uganda. 68p.
- Koeberle, S., Walliser, J. and Stavreski, Z. (eds) 2006 Budget support as more effective aid? Recent experiences and emerging lessons. The World Bank, Washington, DC. 524p.
- Kohlin, G. and Parks, P. J. 2001 Spatial variability and disincentives to harvest. Land Economics 77(2): 206-218.

- Kolstad, I. and Søreide, T. 2009 Corruption in natural resource management: implications for policy makers. Resources Policy 34(4): 214-226.
- Kolstad, I. and Wiig, A. 2009 Is transparency the key to reducing corruption in resource-rich countries? World Development 37(3): 521-532.
- Koyuncu, C. and Yilmaz, R. 2009 The impact of corruption on deforestation: a cross-country evidence. The Journal of Developing Areas 42(2): 213-222.
- Krueger, A. O., Schiff, M. and Valdes, A. 1988 Agricultural incentives in developing countries: measuring the effect of sectoral and economy wide policies. World Bank Economic Review 2(3): 255-271.
- Lamlom, S. H. and Savidge, R. A. 2003 A reassessment of carbon content in wood: variation within and between 41 North American species. Biomass and Bioenergy 25(4): 381-388.
- Landell-Mills, N. and Porras, I. T. 2002 Silver bullet or fools' gold? A global review of markets for forest environmental services and their impact on the poor. Instruments for Sustainable Private Sector Forestry Series. International Institute for Environment and Development, London.
- Larmour, P. 2007 A short introduction to corruption and anti corruption. CIES e-Working Paper No. 37. CIES-ISCTE Centre for Research and Studies in Sociology, Lisbon, Portugal.
- Larsen, C. S. 2003 Promoting aboriginal territoriality through interethnic alliances: the case of the Cheslatta T'en in northern British Columbia. Human Organization 62(1): 74-84.
- Larsen, H. O., Olsen, C. S. and Boon, T. E. 2000 The non-timber forest policy process in Nepal: actors, objectives and power. Forest Policy and Economics 1(3-4): 267-281.
- Larson, A. M. 2002 Natural resources and decentralization in Nicaragua: are local governments up to the job? World Development 30(1): 17-31.
- Larson, A. M. 2003 Decentralisation and forest management in Latin America: towards a working model. Public Administration and Development 23(3): 211-226.
- Larson, A. M. 2005a Democratic decentralization in the forestry sector: lessons learned from Africa, Asia and Latin America. *In*: Pierce, C. and Capistrano, D. (eds) The politics of decentralization: forests, power and people, 32-62. Earthscan, London.
- Larson, A. M. 2005b Formal decentralization and the imperative of decentralization 'from below': a case study of natural resource management in Nicaragua. *In*: Ribot, J. C. and Larson, A. M. (eds) Democratic decentralization through a natural resource lens, 55-70. Routledge, London.

- Larson, A. M. 2008 Indigenous peoples, representation and citizenship in Guatemalan forestry. Conservation and Society 6(1): 35-48.
- Larson, A. M. and Ribot, J. C. 2005 Democratic decentralisation through a natural resource lens: an introduction. *In*: Ribot, J. C. and Larson, A. M. (eds) Democratic decentralization through a natural resource lens, chap. 1. Routledge, London.
- Larson, A. and Ribot, J. 2007 The poverty of forestry policy: double standards on an uneven playing field. Sustainability Science 2(2): 189-204.
- Larson, A. M. and Soto, F. 2008 Decentralization of natural resource governance regimes. Annual Review of Environment and Resources 33(1): 213-239.
- Larson, A., Barry, D., Cronkleton, P. and Pacheco, P. 2008 Tenure rights and beyond: community access to forest resources in Latin America. Occasional Paper No. 50. CIFOR, Bogor, Indonesia.
- Larson, A., Barry, D., Dahal, G. R. and Colfer, C. J. P. (eds) In press-a. Forests for people: community rights and forest tenure reform. Earthscan, London.
- Larson, A. M., Marfo, E., Cronkleton, P. and Pulhin, J. M. In press-b Authority relations under new forest tenure arrangements. *In*: Larson, A. M., Barry, D., Dahal, G. R. and Colfer, C. J. P. (eds) Forests for people: community rights and forest tenure reform. Earthscan, London.
- Larwanou, M., Abdoulaye, M. and Reij, C. 2006 Etude de la régénération naturelle assistée dans la Région de Zinder (Niger): une première exploration d'un phénomène spectaculaire. http://www.frameweb.org/CommunityBrowser.aspx?id=2801&lang=en-US (10 Oct. 2009).
- Laurance, W. 2009 Roads to rainforests ruin. New Scientist 203(2723): 24-25.
- Lawlor, K, Olander, L. P., Weinthal, E. 2009 Reducing emissions from deforestation: options for policymakers. Working paper, Nicholas Institute for Environmental Policy Solutions, Durham, NC, USA
- Lawson, A., Booth, D., Msuya, M., Wangwe, S. and Williamson, T. 2005
 Does general budget support work? Evidence from Tanzania. Overseas
 Development Institute, London, and Daima Associates, Dar es Salaam,
 Tanzania. http://www.odi.org.uk/resources/download/2346-8-page-summary.pdf.
- Le Billon, P. 2000 The political ecology of transition in Cambodia 1989–1999: war, peace and forest exploitation. Development and Change 31(4): 785-805.
- Leeuw, F. and Vaessen, J. 2009 Impact evaluations and development: NONIE guidance on impact evaluation. The World Bank, Washington,

- DC. http://www.worldbank.org/ieg/nonie/guidance.html (12 Nov. 2009).
- Lele, U., Kumar, N., Husain, S. A., Zazueta, A. and Kelly, L. 2000 The World Bank forest strategy: striking the right balance. The World Bank, Washington, DC. 153p.
- Lentini, M., Schulze, M. and Zweede, J. In press. Os desafios ao sistema de concessoes de florestas publicas na Amazonia. Ciencia Hoje.
- Letcher, S. G. and Chazdon, R. L. 2009 Rapid recovery of biomass, species richness, and species composition in a forest chronosequence in northeastern Costa Rica. Biotropica 41(5): 608-617.
- Leverington, F., Hockings, M. and Lemos Costa, K. 2008 Management effectiveness evaluation in protected areas. Report for the project global study into management effectiveness evaluation of protected areas. The World Conservation Union, World Commission on Protected Areas, The Nature Conservancy, World Wide Fund for Nature, University of Queensland, Gatton, Australia. 70p.
- Levin, K., McDermott, C. and Cashore, B. 2008 The climate regime as global forest governance: can reduced emissions from deforestation and forest degradation (REDD) initiatives pass a 'dual effectiveness' test? International Forestry Review 10(3): 538-549
- Lincoln, P. 2008. Stalled gaps or rapid recovery the influence of damage on post-logging forest dynamics and carbon balance. PhD Thesis, University of Aberdeen, UK.
- Linder, S. 2000 Coming to terms with the public–private partnership: a grammar of multiple meanings. *In*: Rosenau, T. (ed.) Public–private policy partnerships, 19-36. MIT Press, Cambridge, MA, USA.
- Lloyd, B. and Subbarao, S. 2009 Development challenges under the Clean Development Mechanism (CDM) can renewable energy initiatives be put in place before peak oil? Energy Policy 37(1): 237-245.
- Lopez, R. A. and Hathie, I. 2000 The structure of government intervention in African agriculture. Journal of Development Studies 37(1): 57-72.
- Lovera, S. 2008 The hottest REDD issues: rights, equity, development, deforestation and governance by indigenous peoples and local communities. Commission on Environmental, Economic and Social Policies and Global Forest Coalition, Gland, Switzerland.
- Luoga, E. J., Witkowski, E. T. F. and Balkwill, K. 2002 Harvested and standing wood stocks in protected and communal miombo woodlands of eastern Tanzania. Forest Ecology and Management 164(1-3): 15-30.
- Luttrell, C., Schrekenberg, K. and Peskett, L. 2007 The implications of carbon financing for pro-poor community forestry. Forestry Briefing

- 14. Overseas Development Institute, London. http://www.odi.org.uk/resources/download/438.pdf.
- Lynch, O. J. and Talbott, K. 1995 Balancing acts: community based forest management and national law in Asia and the Pacific. World Resources Institute, Washington, DC. 188p.
- Madeira, E. M. 2009 REDD in design: assessment of planned first generation activities in Indonesia to reduce emissions from deforestation and degradation (REDD). RFF Discussion Paper 09-49. Resources for the Future, Washington, DC.MacDicken, K. G. 1997 A guide to monitoring carbon storage in forestry and agroforestry projects. Winrock International Institute for Agricultural Development, Arlington, VA, USA. http://www.fcarbonsinks.gov.cn/thjl/Winrock%20 International%20%E7%A2%B3%E7%9B%91%E6%B5%8B%E6%8 C%87%E5%8D%97.pdf.
- Macpherson, A. J. 2007. Following the rules: a bioeconomic policy simulation of a Brazilian forest concession. PhD Thesis, University of Florida, Gainesville, FL, USA.
- Magrath, W. B., Grandalski, R. L., Stuckey, G. L., Vikanes, G. B. and Wilkinson, G. R. 2007 Timber theft prevention: introduction to security for forest managers. East Asia and Pacific Region Sustainable Development Discussion Paper. The World Bank, Washington, DC.
- Mahar, D. and Ducrot, E. 1998 Land-use zoning on tropical frontiers. Emerging lessons from the Brazilian Amazon. Economic Development Institute, The World Bank, Washington, DC.
- Manor, J. 2000 Local government in South Africa: potential disaster despite genuine promise. Paper prepared for the Department for International Development. Institute for Development Studies, Brighton, UK.
- Manor, J. 2004 User communities: a potentially damaging second wave of decentralization? European Journal of Development Research 16(1): 192-213.
- March, J. G. and Olsen, J. P. 1995 Democratic governance. The Free Press, New York.
- Marfo, E., Colfer, C. J. P., Kante, B. and Elías, S. Forthcoming. From discourse to policy: the practical interface of statutory and customary land and forest rights. *In*: Larson, A. M., Barry, D., Dahal, G. R. and Colfer, C. J. P. (eds) Forests for people: community rights and forest tenure reform. Earthscan, London.
- Margoluis, R., Stem, C., Salafsky, N. and Brown, M. 2009 Design alternatives for evaluating the impact of conservation projects. New Directions for Evaluation 2009(122): 85-96.
- Mather, A. 1992 The forest transition. Area 24: 367-379.

- Mather, A. S. 2007 Recent Asian forest transitions in relation to forest transition theory. International Forestry Review 9(1): 491-502.
- Matope, J. J. 2000 Blantyre city environmental profile. Blantyre City Assembly/UNDP. http://74.125.77.132/search?q=cache:ceicj1VQ n9sJ:staging.unchs.org/cdrom/governance/html/books%255Cbcep. df+forest+degradation+Blantyre&cd=5&hl=no&ct=clnk&gl=no&client =firefox-a#56 (9 Nov. 2009).
- Mauro, P. 1995 Corruption and growth. The Quarterly Journal of Economics 110(3): 681-712.
- Mawhood, P. 1983 Local government in the Third World. John Wiley, Chichester, UK.
- Mayntz, R. 1993 Policy-netzwerke und die logik von verhandlungssystemen. *In*: Hertier, A. (ed.) Policy-analyse. Kritik und neuorientierung, 39-56. Politische Vierteljahresschrift, Opladen, Germany.
- McKean, M. A. 1992 Success on the commons: a comparative examination of institutions for common property resource management. Journal of Theoretical Politics 4(3): 247-281.
- McKinsey & Company 2009 Pathways to a low-carbon economy. Version 2.0 of the global greenhouse gas abatement cost curve. McKinsey & Company. 190p.
- McShane, T. and Wells, M. (eds) 2004 Getting biodiversity projects to work: towards more effective conservation and development. Columbia University Press, New York. 464p.
- Mello, R. and Pires, E. C. S. 2004 Valoração econômica do uso de técnicas de prevenção e controle de queimadas em cenários de produção familiar na Amazônia: um estudo de caso em comunidades rurais de Paragominas, Pará, Brasil. IPAM/CSF/CI, Belém, Brazil.
- Méndez, F. and Sepúlveda, F. 2006 Corruption, growth and political regimes: cross country evidence. European Journal of Political Economy 22(1): 82-98.
- Mendonça, M. J. C., Vera-Diaz, M. C., Nepstad, D., da Motta, R. S., Alencar, A., Gomes, J. C. and Ortiz, R. A. 2004 The economic cost of the use of fire in the Amazon. Ecological Economics 49(1): 89-105
- Meridian Institute 2009a Reducing emissions from deforestation and forest degradation: an options assessment report. Prepared for the Government of Norway, by Angelsen, A., Brown, S., Loisel, C., Peskett, L., Streck, C. and Zarin, D. http://www.REDD-OAR.org.
- Meridian Institute 2009b REDD+ institutional options assessment. Prepared for the Government of Norway, by Streck, C., Gomez-Echeverri, L., Gutman, P., Loisel, C. and Werksman, J. http://www.REDD-OAR.org.

- Merry, F. D., Amacher, G. S., Pokorny, B., Lima, E., Scholz, I., Nepstad, D. C. and Zweede, J. C. 2003 Some doubts about concession in Brazil. International Tropical Timber Organization Tropical Forest Update 13(3): 7-9.
- Meyfroidt, P. and Lambin, E. F. 2009 Forest transition in Vietnam and displacement of deforestation abroad. Proceedings of the National Academy of Sciences 106(38): 16139-16144.
- Minang, P., McCall, M. and Bressers, H. 2007 Community capacity for implementing Clean Development Mechanism projects within community forests in Cameroon. Environmental Management 39(5): 615-630.
- Moeliono, M., Wollenberg, E. and Limberg, G. (eds) 2008 The decentralization of forest governance: politics, economics and the fight for control of forests in Indonesian Borneo. Earthscan, London.
- Monela, G. C., O'ktingati, A. and Kiwele, P. M. 1993 Socio-economic aspects of charcoal consumption and environmental consequences along the Dar es Salaam–Morogoro highway, Tanzania. Forest Ecology and Management 58(3-4): 249-258.
- Moore, H. and Vaughan, M. 1994 Cutting down trees: gender, nutrition, and agricultural change in the Northern Province of Zambia. Heinemann, Portsmouth, NH, USA.
- Munslow, B., Katerere, Y., Ferf, A. and O'Keefe, P. 1988 The fuelwood trap. A study of the SADCC region. Earthscan, London.
- MWLE 2002 National biomass study. Technical report. Forest Department, Ministry of Water, Lands and Environment, Kampala, Uganda. 118p.
- Nagendra, H. 2008 Do parks work? Impact of protected areas on land cover clearing. AMBIO: A Journal of the Human Environment 37(5): 330-337.
- Namara, A. and Nsabagasani, X. 2003 Decentralization and wildlife management: devolving rights or shedding responsibility? Bwindi Impenetrable National Park, Uganda. Environmental Governance in Africa Working Paper No. 9. World Resources Institute, Washington, DC.
- Namaalwa, J., Hofstad, O. and Sankhayan, P. L. 2009 Achieving sustainable charcoal supply from woodlands to urban consumers in Kampala, Uganda. International Forestry Review 11(1): 64-78.
- Naughton-Treves, L., Holland, M. B. and Brandon, K. 2005 The role of protected areas in conserving biodiversity and sustaining local livelihoods. Annual Review of Environment and Resources 30(1): 219-252.

- Nelson, A. and Chomitz, K. M. 2009 Protected area effectiveness in reducing tropical deforestation: a global analysis of the impact of protection status. Evaluation Brief 7. The World Bank, Washington, DC. 31p.
- Nelson, J. 2002 Building partnerships. United Nations, New York.
- Nepstad, D., Carvalho, G., Cristina Barros, A., Alencar, A., Paulo Capobianco, J., Bishop, J., Moutinho, P., Lefebvre, P., Lopes Silva, U. and Prins, E. 2001 Road paving, fire regime feedbacks, and the future of Amazon forests. Forest Ecology and Management 154(3): 395-407.
- Nepstad, D., Schwartzman, S., Bamberger, B., Santilli, M., Ray, D., Schlesinger, P., Lefebvere, P., Alencar, A., Prinz, E., Fiske, G. and Rolla, A. 2006 Inhibition of Amazon deforestation and fire by parks and indigenous lands. Conservation Biology 20(1): 65-73.
- Niles, J. O., Boyd, W., Lawlow, K., Madeira, E. M. and Olander, L. 2009 Experience on the ground, in the forests. International Forest Carbon and the Climate Change Challenge Series – Brief No. 6. Nicholas Institute, Duke University, Durham, NC, USA.
- Norris, R. (ed.) 2000 The IPG handbook on environmental funds: a resource book for the design and operation of environmental funds. Pact Publications, New York.
- Ntsebeza, L. 1999 Land tenure reform in South Africa: an example from the Eastern Cape Province. Issue Paper No. 82. Drylands Programme, International Institute for Environment and Development, London.
- Ntsebeza, L. 2002 Decentralization and natural resource management in rural South Africa: problems and prospects. Paper to the Conference on Decentralization and the Environment, Bellagio, Italy, 18-22 February 2002.
- Oleas, R. and Barragán, L. 2003 Environmental funds as a mechanism for conservation and sustainable development in Latin America and the Caribbean. http://www.conservationfinance.org/Documents/CF_related_papers/Diagnostic-English_13ago03.pdf (10 Nov. 2009).
- OSCE 2004 Best practises in combating corruption. Organization for Security and Co-operation in Europe, Vienna, Austria.
- Ostrom, E. 1990 Governing the commons: the evolution of institutions for collective action. Cambridge University Press, New York.
- Ostrom, E. 2003 How types of goods and property rights jointly affect collective action. Journal of Theoretical Politics 15(3): 239-270.
- Ostrom, E. 2005 Understanding institutional diversity. Princeton University Press, Princeton, NJ, USA.

- Ostrom, E. 2007 A diagnostic approach for going beyond panaceas. Proceedings of the National Academy of Sciences 104(39): 15181-15187.
- Ostrom, E. 2009 A general framework for analyzing sustainability of social-ecological systems. Science 325(5939): 419-422.
- Pacheco, P. 2003 Municipalidades y participación local en la gestión forestal en Bolivia. *In*: Ferroukhi, L. (ed.) Gestión forestal municipal en América Latina. CIFOR, Bogor, Indonesia.
- Pagiola, S. 2008 Payments for environmental services in Costa Rica. Ecological Economics 65(4): 712-724.
- Palm, C., Tomich, T., Van Noordwijk, M., Vosti, S., Gockowski, J., Alegre, J. and Verchot, L. 2004 Mitigating GHG emissions in the humid tropics: case studies from the Alternatives to Slash-and-Burn Program (ASB). Environment, Development and Sustainability 6(1): 145-162.
- Palmer, C. and Engel, S. 2007 For better or for worse? Local impacts of the decentralization of Indonesia's forest sector. World Development 35(12): 2131-2149.
- Parker, C. 2008 Co-benefits of the voluntary and compliance carbon markets. MSc Thesis, Imperial College, University of London, London.
- Parker, C., Mitchell, A., Trivedi, M. and Mardas, M. 2009 The little REDD+ book. Global Canopy Programme, Oxford, UK.
- Parsons, J. J. 1972 Spread of African pasture grasses to the American tropics. Journal of Range Management 25(1): 12-17.
- Pattanayak, S. K. 2009 Rough guide to impact evaluation of environmental and development programs. SANDEE Working Paper No. 40-09. South Asian Network for Development and Environmental Economics, Kathmandu, Nepal.
- Pattanayak, S. K., Wunder, S. and Ferraro, P. J. 2009 Show me the money: do payments supply ecosystem services in developing countries? Personal communication, November 2009.
- Pearce, D., Putz, F. E. and Vanclay, J. K. 2003 Sustainable forestry in the tropics: panacea or folly? Forest Ecology and Management 172(2-3): 229-247.
- Pedroni, L., Dutschke, M., Streck, C. and Porrúa, M. E. 2009 Creating incentives for avoiding further deforestation: the nested approach. Climate Policy 9(2): 207-220.
- Peluso, N. 1995 Whose woods are these? Counter-mapping forest territories in Kalimantan, Indonesia. Antipode 27(4): 383-406.
- Peña-Claros, M., Fredericksen, T. S., Alarcón, A., Blate, G. M., Choque, U., Leaño, C., Licona, J. C., Mostacedo, B., Pariona, W., Villegas, Z. and Putz, F. E. 2008a Beyond reduced-impact logging: silvicultural

- treatments to increase growth rates of tropical trees. Forest Ecology and Management 256(7): 1458-1467.
- Peña-Claros, M., Peters, E. M., Justiniano, M. J., Bongers, F., Blate, G. M., Fredericksen, T. S. and Putz, F. E. 2008b Regeneration of commercial tree species following silvicultural treatments in a moist tropical forest. Forest Ecology and Management 255(3-4): 1283-1293.
- Peskett, L. and Harkin, Z. 2007 Risks and responsibility in reduced emissions from deforestation and degradation. Forestry Briefing 15. Overseas Development Institute, London. http://www.odi.org.uk/resources/details.asp?id=426&title=risk-responsibility-reduced-emissions-deforestation-degradation.
- Peskett, L., Huberman, D., Bowen-Jones, E., Edwards, G. and Brown, J. 2008 Making REDD work for the poor. Briefing paper prepared on behalf of the Poverty Environment Partnership (PEP). Oveseas Development Institute, London.
- Pfaff, A., Robalino, J. and Sanchez-Azofeifa, G. 2008 Payments for environmental services: empirical analysis for Costa Rica. Terry Sanford Institute of Public Policy, Duke University, Durham, NC, USA.
- Pinard, M. A. and Cropper, W. P. 2000 Simulated effects of logging on carbon storage in dipterocarp forest. Journal of Applied Ecology 37(2): 267-283.
- Pinard, M. A. and Putz, F. E. 1996 Retaining forest biomass by reducing logging damage. Biotropica 28(3): 278-295.
- Pinard, M. A., Putz, F. E. and Licona, J. C. 1999 Tree mortality and vine proliferation following a wildfire in a subhumid tropical forest in eastern Bolivia. Forest Ecology and Management 116(1-3): 247-252.
- Pokorny, B., Sabogal, C., Silva, J. N. M., Bernardo, P., Souza, J. and Zweede, J. 2005 Compliance with reduced-impact harvesting guidelines by timber enterprises in *terra firme* forests of the Brazilian Amazon. International Forestry Review 7(1): 9-20.
- Porras, I., Grieg-Gran, M. and Neves, N. 2008 All that glitters: a review of payments for watershed services in developing countries. Natural Resource Issues No 11. International Institute for Environment and Development, London. 130p.
- Porter, G. and Young, E. 1998 Decentralized environmental management and popular participation in coastal Ghana. Journal of International Development 10(4): 515-526.
- Poteete, A. R. and Ostrom, E. 2004 Heterogeneity, group size and collective action: the role of institutions in forest management. Development and Change 35(3): 435-461.

- Project Catalyst 2009 Towards a global climate agreement. Synthesis Briefing Paper. Climate Works Foundation, San Francisco, CA. http://www.project-catalyst.info/images/publications/synthesis_paper.pdf. 35p.
- Pulhin, J., Larson, A. and Pacheco, P. In press. Regulations as barriers to community benefits in tenure reform. *In*: Larson, A., Barry, D., Dahal, G. R. and Colfer, C. J. P. (eds) Forests for people: community rights and forest tenure reform. Earthscan, London.
- Putz, F. E. and Redford, K. H. 2009 Dangers of carbon-based conservation. Global Environmental Change 19(4): 400-401.
- Putz, F. E., Dykstra, D. P. and Heinrich, R. 2000 Why poor logging practices persist in the Tropics. Conservation Biology 14(4): 951-956.
- Putz, F. E., Sist, P., Fredericksen, T. and Dykstra, D. 2008a Reduced-impact logging: challenges and opportunities. Forest Ecology and Management 256(7): 1427-1433.
- Putz, F. E., Zuidema, P. A., Pinard, M. A., Boot, R. G. A., Sayer, J. A., Sheil, D., Sist, P., Elias and Vanclay, J. K. 2008b Improved tropical forest management for carbon retention. PLoS Biol 6(7): 1368-1369.
- Raffles, H. 1999 Local theory: nature and the making of an Amazonian place. Cultural Anthropology 14(3): 323-360.
- Ranganathan, J., Daniels, R. J. R., Chandran, M. D. S., Ehrlich, P. R. and Daily, G. C. 2008 Sustaining biodiversity in ancient tropical countryside. Proceedings of the National Academy of Sciences 105(46): 17852-17854.
- RedLAC 2008 Measuring the impact of environmental funds on biodiversity: perspectives from the Latin America and Caribbean Network of Environmental Funds. The Latin American and Caribbean Network of Environmental Funds (RedLAC), Rio de Janeiro, Brazil.
- REM 2006 Rapport de l'observateur independant no. 31/OI/REM. Resource Extraction Monitoring (REM), Yaoundé, Cameroon.
- Repetto, R. and Gillis, M. (eds) 1988 Public policies and the misuse of forest resources. Cambridge University Press, Cambridge, UK. 432p.
- Resosudarmo, I. A. P. 2005 Closer to people and trees: will decentralization work for the people and forests of Indonesia? *In*: Ribot, J. C. and Larson, A. M. (eds) Democratic decentralization through a natural resource lens, 110-132. Routledge, London.
- Ribot, J. C. 2001 Integral local development: 'accommodating multiple interests' through entrustment and accountable representation. International Journal of Agricultural Resources, Governance and Ecology 1(3): 306-326.

- Ribot, J. C. 2002 Democratic decentralization of natural resources: institutionalizing popular participation. World Resources Institute, Washington, DC.
- Ribot, J. C. 2003 Democratic decentralisation of natural resources: institutional choice and discretionary power transfers in Sub-Saharan Africa. Public Administration and Development 23(1): 53-65.
- Ribot, J. C. 2004 Waiting for democracy: the politics of choice in natural resource decentralization. World Resources Institute, Washington, DC. 140p.
- Ribot, J. C. 2008 Building local democracy through natural resources interventions: an environmentalist's responsibility. A policy brief. World Resources Institute, Washington, DC.
- Ribot, J. C. 2009 Forestry and democratic decentralization in Sub-Saharan Africa: a rough review. *In*: German, L., Karsenty, A. and Tiani, A. M. (eds) Governing Africa's forests in a globalized world, 29-55. Earthscan, Washington, DC, and CIFOR, Bogor, Indonesia.
- Ribot, J. C. and Oyono, R. 2005 The politics of decentralization. *In*: Wisner, B., Toulmin, C. and Chitiga, R. (eds) Toward a new map of Africa, 205-228. Earthscan, London.
- Ribot, J. C. and Oyono, R. 2006 Introduction: decentralisation and livelihoods in Africa. *In*: Ribot, J. C. and Oyono, R. (eds) African development, special issue, Implementing progressive new natural resources laws, 1-19.
- Ribot, J. C., Agrawal, A. and Larson, A. M. 2006 Recentralizing while decentralizing: how national governments reappropriate forest resources. World Development 34(11): 1864-1886.
- Ribot, J. C., Cchatre, A. and Lankina, T. 2008 Institutional choice and recognition in the formation and consolidation of local democracy. Conservation and Society 6(1): 1-11.
- Rice, R. E., Gullison, R. E. and Reid, J. W. 1997 Can sustainable management save tropical forests? Scientific American 276(4): 44-49.
- Richards, M. 2000 Can sustainable tropical forestry be made profitable? The potential and limitations of innovative incentive mechanisms. World Development 28(6): 1001-1016.
- Richards, M. and Costa, P. M. 1999 Can tropical forestry be made profitable by internalizing the externalities? ODI Natural Resource Perspectives 46: 1-6.
- Richards, M., Wells, A., Del Gatto, F., Contreras-Hermosilla, A. and Pommier, D. 2003 Impacts of illegality and barriers to legality: a diagnostic analysis of illegal logging in Honduras and Nicaragua. International Forestry Review 5(3): 282-292.

- Robbins, P. 1998 Paper forests: imagining and deploying exogenous ecologies in arid India. Geoforum 29(1): 69-86.
- Roberts, D. 2009 Securing finance for biofuels where is the money coming from? Presentation to the World Biofuels Markets Conference. Brussels, Belgium, 16–18 March 2009.
- Rock, M. T. and Bonnett, H. 2004 The comparative politics of corruption: accounting for the East Asian paradox in empirical studies of corruption, growth and investment. World Development 32(6): 999-1017.
- Rørstad, P. K., Vatn, A. and Kvakkestad, V. 2007 Why do transaction costs of agricultural policies vary? Agricultural Economics 36(1): 1-11.
- Ross, M. L. 2001 Timber booms and institutional breakdown in Southeast Asia. Cambridge University Press, Cambridge, UK.
- RRI 2008 Seeing people through the trees: scaling up efforts to advance rights and address poverty, conflict and climate change. Rights and Resources Initiative, Washington, DC.
- RRI and RFN 2008 Foundations for effectiveness: a framework for ensuring effective climate change mitigation and adaptation in forest areas without undermining human rights and development. Policy Brief. Rights and Resources Initiative, Washington, DC and Rainforest Foundation Norway, Oslo, Norway.
- Rudel, T. K. 2007 Changing agents of deforestation: from state-initiated to enterprise driven processes, 1970–2000. Land Use Policy 24(1): 35-41.
- Rudel, T. and Horowitz, B. 1993 Tropical deforestation: small farmers and land clearing in the Ecuadorian Amazon. Colombia University Press, New York.
- Rudel, T. K., Coomes, O. T., Moran, E., Achard, F., Angelsen, A., Xu, J. and Lambin, E. 2005 Forest transitions: towards a global understanding of land use change. Global Environmental Change 15(1): 23-31.
- Ruf, F. 2001 Tree crops and deforestation and reforestation agents: the case of cocoa in Côte d'Ivoire and Sulawesi. *In*: Angelsen, A. and Kaimowitz, D. (eds) Agricultural technologies and tropical deforestation, 291-315.
 CAB International, Wallingford, UK.
- Sabogal, C., Pokorny, B., Silva, N., Bernardo, P., Massih, F., Boscolo, M., Lentini, M., Sobral, L. and Veríssimo, A. 2006 Manejo florestal empresarial na Amazônia Brasileira. Restrições e oportunidades para a adoção de boas práticas de manejo. CIFOR, Belem, Brazil. 71p.
- Sachs, J. D. 2005 The end of poverty: how can we make it happen in our life time? Penguin Books, London.
- Salafsky, N. R., Margoluis, R. and Redford, K. 2001 Adaptive management: a tool for conservation practitioners. Biodiversity Support Program,

- Washington, DC. http://www.worldwildlife.org/bsp/publications/aam/112/titlepage.htm (12 Nov. 2009).
- Sander, K. and Zeller, M. 2007 Protected area management and local benefits: a case study from Madagascar. *In*: Tscharntke, T., Leuschner, C., Zeller, M., Guhardja, E. and Bidin, A. (eds) Stability of tropical rainforest margins, 363-385. Springer, Berlin.
- Santilli, M., Moutinho, P., Schwartzman, S., Nepstad, D., Curran, L. and Nobre, C. 2005 Tropical deforestation and the Kyoto Protocol: an editorial essay. Climatic Change 71(3): 267-276.
- Sargent, C. and Bass, S. (eds) 1992 Plantation politics forest plantations in development. Earthscan, London.
- Sarin, M., Singh, N., Sundar, N. and Bhogal, R. 2003 Devolution as a threat to democratic decision-making in forestry? Findings from three states in India. *In*: Edmunds, D. (ed.) Local forest management: the impacts of devolution policies, 55-126. Earthscan, London.
- Sasaki, N. and Putz, F. E. 2009 Critical need for new definitions of 'forest' and 'forest degradation' in global climate change agreements. Conservation Letters 2(5): 226-232.
- Saunders, J., Ebeling, J. and Nussbaum, R. 2008 Reduced emissions from deforestation and forest degradation (REDD): lessons from a governance perspective. Proforest, Oxford, UK. (Available from: www.proforest.net.)
- Schlager, E. and Ostrom, E. 1992 Property-rights regimes and natural resources: a conceptual analysis. Land Economics 68(3): 249-262.
- Schmitt, C. B., Burgess, N. D., Coad, L., Belokurov, A., Besançon, C., Boisrobert, L., Campbell, A., Fish, L., Gliddon, D., Humphries, K. et al. 2009 Global analysis of the protection status of the world's forests. Biological Conservation 142(10): 2122-2130.
- Schneider, V. 2003 Akteurskonstellationen und netzwerke in der politikentwicklung. *In*: Schubert, K. and Bandelow, N. C. (eds) Lehrbuch der politikfeldanalyse, 107-146. Oldenbourg, München, Germany.
- Schroeder, R. 1999 Shady practices: agroforestry and gender politics in The Gambia. University of California Press, Berkeley, CA, USA.
- Schulze, M., Grogan, J. and Vidal, E. 2008 Technical challenges to sustainable forest management in concessions on public lands in the Brazilian Amazon. Journal of Sustainable Forestry 26(1): 61-75.
- Schwartzman, S. 2009 Brazil national and state REDD. EDF Policy Brief. Environmental Defense Fund, New York. http://www.environmentaldefensefund.com/documents/10438_Brazil_national_and_state_REDD_report.pdf (13 Nov. 2009).

- Schwarze, R., Niles, J. O. and Olander, J. 2002 Understanding and managing leakage in forest-based greenhouse-gas-mitigation projects. Philosophical Transactions of the Royal Society of London A 360: 1685-1703.
- Scott, W. R. 1995 Institutions and organizations. Sage, Thousand Oaks, CA, USA.
- Scrieciu, S. S. 2007 Can economic causes of tropical deforestation be identified at a global level? Ecological Economics 62(3-4): 603-612.
- Seymour, F. J. In press. Forests, climate change, and human rights: managing risks and trade-offs. *In*: Humphreys, S. (ed.) Human rights and climate change. Cambridge University Press, Cambridge, UK.
- Seymour, F. and Dubash, N. 2000 Right conditions: The World Bank, structural adjustment, and forest policy reform. World Resources Institute, Washington, DC. 156p.
- Shackleton, S. E. and Campbell, B. M. 2001 Devolution in natural resource management: institutional arrangements and power shifts. A synthesis of case studies from southern Africa. SADC Wildlife Sector Natural Resource Management Programme, Lilongwe, Malawi and WWF (Southern Africa), Harare, Zimbabwe.
- Shah, A. 2006 Corruption and decentralized public governance. World Bank Policy Research Working Paper No. 3824. The World Bank, Washington, DC.
- Shively, G. E. 2001 Agricultural change, rural labor markets, and forest clearing: an illustrative case from the Philippines. Land Economics 77(2): 268-284.
- Shively, G. and Pagiola, S. 2004 Agricultural intensification, local labor markets, and deforestation in the Philippines. Environment and Development Economics 9(2): 241-266
- Shrestha, R. A. M., Alavalapati, J., Seidl, A., Weber, K. and Suselo, T. R. I. 2007 Estimating the local cost of protecting Koshi Tappu wildlife reserve, Nepal: a contingent valuation approach. Environment, Development and Sustainability 9(4): 413-426.
- Sims, K. 2008 Evaluating the local socio-economic impacts of protected areas: a system level comparison group approach. Global Environment Facility Impact Evaluation Information Document No. 14. Global Environment Facility, Washington, DC.
- Sist, P. and Bertault, J.-G. 1998 Reduced impact logging experiments: impact of harvesting intensities and logging techniques on stand damage. *In*: Bertault, J. G. and Kadir, K. (eds) Silvicultural research in a lowland mixed dipterocarp forest of East Kalimantan, 139-161. Centre de coopération internationale en recherche agronomique pour le développement (CIRAD-Forêt), Montpellier, France.

- Skutsch, M. 2005 Reducing carbon transaction costs in community based forestry management. Climate Policy 5: 433-443.
- Skutsch, M., Karky, B., Zahabu, E., McCall, M. and Peters-Guarin, G. 2009a Community measurement of carbon stock change for REDD. *In:* Collaborative Partnership on Forest, special study on forest degradation. FAO, Rome
- Skutsch, M., Zahabu, E. and Karky, B. 2009b Community forest management under REDD: policy conditions for equitable governance. Paper prepared for the 13th World Forestry Congress: Forests in development, a vital balance. Buenos Aires, Argentina. 18-25 October 2009.
- Smith, J., Colan, V., Sabogal, C. and Snook, L. 2006 Why policy reforms fail to improve logging practices: the role of governance and norms in Peru. Forest Policy and Economics 8(4): 458-469.
- Smith, J., Obidzinski, K., Subarudi, S. and Suramenggala, I. 2003a Illegal logging, collusive corruption and fragmented governments in Kalimantan, Indonesia. International Forestry Review 5(3): 293-302.
- Smith, R. J., Muir, R. D. J., Walpole, M. J., Balmford, A. and Leader-Williams, N. 2003b Governance and the loss of biodiversity. Nature 426(6962): 67-70.
- Somanathan, E., Prabhakar, R. and Mehta, B. S. 2009 Decentralization for cost-effective conservation. Proceedings of the National Academy of Sciences 106(11): 4143-4147.
- Southgate, D. and Runge, C. F. 1990 The institutional origins of deforestation in Latin America. University of Minnesota, Department of Agriculture and Applied Economics, Staff Paper No. P90-5. University of Minnesota, St Paul, MN, USA.
- Southgate, D., Salazar-Canelos, P., Camacho-Saa, C. and Stewart, R. 2000 Markets, institutions, and forestry: the consequences of timber trade liberalization in Ecuador. World Development 28(11): 2005-2012.
- Souza, C., Firestone, L., Silva, L. M. and Roberts, D. 2003 Mapping forest degradation in the eastern Amazon from SPOT 4 through spectral mixture models. Remote Sensing of Environment 87: 494-506.
- Spergel, B. and Taieb, P. 2008 Rapid review of conservation trust funds. Conservation Finance Alliance, Washington, DC.
- Stern, N. 2006 The Stern review: the economics of climate change. Cambridge University Press, Cambridge, UK.
- Sunderlin, W., Hatcher, J. and Liddle, M. 2008a From exclusion to ownership? Challenges and opportunities in advancing forest tenure reform. Rights and Resources Initiative, Washington, DC.

- Sunderlin, W. D., Dewi, S., Puntodewo, A., Müller, D., Angelsen, A. and Epprecht, M. 2008b Why forests are important for global poverty alleviation: a spatial explanation. Ecology and Society 13(2): 24. http://www.ecologyandsociety.org/vol13/iss2/art24/ (18 Nov. 2009).
- Sutter, C. 2003 Sustainability check-up for CDM projects. Wissenschaftlicher Verlag, Berlin.
- Tacconi, L. 2007a Decentralization, forests and livelihoods: theory and narrative. Global Environmental Change 17(3-4): 338-348.
- Tacconi, L. 2007b Verification and certification of forest products and illegal logging in Indonesia. *In*: Tacconi, L. (ed.) Illegal logging: law enforcement, livelihoods and the timber trade. Earthscan, London.
- Tacconi, L. (ed.) 2007c Illegal logging: law enforcement, livelihoods and the timber trade. Earthscan, London
- Tacconi, L., Boscolo, M. and Brack, D. 2003 National and international policies to control illegal forest activities. Report for the Ministry of Foreign Affairs, Government of Japan. CIFOR, Bogor, Indonesia.
- Tahmina, Q. A. and Gain, P. 2002 A guide to NGO-business partnerships. Society for Environment and Human Development, Dhaka, Bangladesh.
- Taylor, P. L. 2005 A fair trade approach to community forest certification? A framework for discussion. Journal of Rural Studies 21(4): 433-447.
- Tewari, A. and Phartiyal, P. 2006 The carbon market as an emerging livelihood opportunity for communities of the Himalayas. ICIMOD Mountain Development No. 49. Central Himalayan Environmental Association, Nainital, India. p. 26-27.
- TFF 2008 Tropical Forest Foundation News (spring 2008). http://www.tropicalforestfoundation.org/newsletters/newsletter2008_spring.pdf (16 Aug. 2008).
- The Nature Conservancy 2009 Submission to the United Nations Framework Convention on Climate Change regarding Views on issues relating to indigenous peoples and local communities for the development and application of methodologies for reducing emissions from deforestation and forest degradation in developing countries. http://unfccc.int/resource/docs/2009/smsn/ngo/099.pdf.
- Tieguhong, J. C. and Betti, J. L. 2008 Forest and protected area management in Cameroon. Tropical Forest Update 18/1. The International Tropical Timber Organization.
- Tole, L. 2001 Jamaica's disappearing forests: physical and human aspects. Environmental Management 28(4): 455-467.
- Tomaselli, I. and Hirakuri S. R. 2008 Converting mahogany. ITTO Tropical Forest Update 18/4

- Tomlinson, F. 2009. Do harvesting impacts determine patterns of non-forest vegetation in dipterocarp forest in Sabah 15 years post-logging? MSc Thesis, University of Aberdeen, Aberdeen, UK.
- Toni, F. 2006a Gestão florestal na Amazônia brasileira: avanços e obstáculos em um sistema federalista. CIFOR, Bogor, Indonesia and International Development Research Centre, Ottawa, Canada.
- Toni, F. 2006b Institutional choice on the Brazilian agricultural frontier: strengthening civil society or outsourcing centralized natural resource management? Paper to 11th Biennial Conference of the International Association for the Study of Common Property. Bali, Indonesia, 19-23 June 2006.
- Topp-Jørgensen, E., Poulsen, M. K., Lund, J. F. and Massao, J. F. 2005 Community-based monitoring of natural resource use and forest quality in montane forests and miombo woodlands of Tanzania. Biodiversity and Conservation 14(11): 2653-2677.
- Torres-Duque, C., Maldonado, D., Perez-Padilla, R., Ezzati, M., Viegi, G. and on behalf of the Forum of International Respiratory Societies Task Force on Health Effects of Biomass Exposure 2008 Biomass fuels and respiratory diseases: a review of the evidence. Proceedings of the American Thoracic Society 5(5): 577-590.
- Transparency International 2002 Corruption in South Asia: insights and benchmarks from citizen feedback surveys in five countries. Transparency International, Berlin.
- Treisman, D. 2007 What have we learned about the causes of corruption from ten years of cross-national empirical research? Annual Review of Political Science 10: 211-244.
- Tucker, C. 1999 Private versus common property forests: forest conditions and tenure in a Honduran community. Human Ecology 27(2): 201-230.
- Twidell, J. and Weir, T. 2006 Renewable energy resources. 2nd ed. Taylor and Francis, Oxford, UK. 601p.
- UNDP, UNEP, WB and WRI 2003 World resources 2002-2004: decisions for the Earth: balance, voice and power. United Nations Development Programme, United Nations Environment Programme, World Bank, World Resources Institute, Washington, DC.
- UNFCCC 2007 Reducing emissions from deforestation in developing countries: approaches to stimulate action. 2/cp.13. United Nations Framework Convention on Climate Change, Bonn, Germany.
- UNFCCC 2009a Article for the REDD+ mechanism. United Nations Framework Convention on Climate Change, Bonn, Germany. http://unfccc.int/files/kyoto_protocol/application/pdf/papuanewguinea070509.pdf (12 Nov. 2009).

- UNFCCC 2009b Cost of implementing methodologies and monitoring systems relating to estimates of emissions from deforestation and forest degradation, the assessment of carbon stocks and greenhouse gas emissions from changes in forest cover, and the enhancement of forest carbon stocks. Technical Paper FCCC/TP/2009/1. United Nations Framework Convention on Climate Change, Bonn, Germany. http://unfccc.int/resource/docs/2009/tp/01.pdf.
- UNFCCC 2009c Reordering and consolidation of text in the revised negotiating text. Advance version. 1F5C CSeCp/tAemWbGerL 2C0A0/92 009/INF.2. United Nations Framework Convention on Climate Change, Bonn, Germany.
- UN-REDD Programme 2009 Background analysis of REDD regulatory frameworks. The United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries, Geneva.
- van Noordwijk, M., Tomich, T. P., Winahyu, R., Murdiyarso, D., Suyanto, Partoharjono, S. and Fagi, A. M. 1995 Alternatives to slash-and-burn in Indonesia. Summary report of phase 1. ASB Indonesia Report 4. World Agroforestry Centre, Bogor, Indonesia.
- van Rouveroy van Nieuwaal, E. A. B. 1987 Chiefs and African states: some introductory notes and an extensive bibliography on African chieftaincy. Journal of Legal Pluralism (25 & 26): 1-46.
- Vatn, A. 2005 Institutions and the environment. Edward Elgar, Cheltenham, UK. 481p.
- Vatn, A., Vedeld, P., Petursson, J. G. and Stenslie, E. 2009 The REDD direction. The potential for reduced carbon emissions, biodiversity protection and enhanced development. A desk study with focus on Tanzania and Uganda. Noragric Report. Norwegian University of Life Sciences, Ås, Norway. 140p.
- Venkataraman, C., Habib, G., Eiguren-Fernandez, A., Miguel, A. H. and Friedlander, S. K. 2005 Residential biofuels in South Asia: carbonaceous aerosol emissions and climate impacts. Science 307(5714): 1454-1456.
- Verchot, L. and Petkova, E. 2009 The state of REDD negotiations: consensus points, options for moving forward and research needs to support the process. Unpublished manuscript. CIFOR, Bogor, Indonesia.
- Veríssimo, A., Cochrane, M. A. and Souza Jr, C. 2002 National forests in the Amazon. Science 297(5586): 1478.
- Villegas, Z., Peña-Claros, M., Mostacedo, B., Alarcón, A., Licona, J.C., Leaño, C., Pariona, W. and Choque, U. 2009 Silvicultural treatments enhance growth rates of future crop trees in a tropical dry forest. Forest Ecology and Management 258(6): 971-977.

- von der Goltz, J. 2009 High stakes in a complex game: a snapshot of the climate change negotiating positions of major developing country emitters. Working Paper 177. Center for Global Development, Washington, DC.
- von Thünen, J. H. 1966 The isolated state. Wartenberg, C. M. trans. Translation of: Der isolierte Staat (1826). Pergamon Press, Oxford and New York. 304p.
- Vosti, S. A., Carpentier, C. L., Witcover, J. and Valentim, J. 2001 Intensified small-scale livestock systems in the western Brazilian Amazon. *In*: Angelsen, A. and Kaimowitz, D. (eds) Agricultural technologies and tropical deforestation. CAB International, Wallingford, UK.
- Wadsworth, F. H., Zweede, J. C. 2006 Liberation: acceptable production of tropical forest timber. Forest Ecology and Management 233(1): 45-51.
- Walker, P. and Peters, P. 2001 Maps, metaphors, and meanings: boundary struggles and village forest use on private and state land in Malawi. Society and Natural Resources 14: 411-424.
- Weber, E. 1998 Pluralism by the rules: conflict and co-operation in environmental regulation. Georgetown University Press, Washington, DC.
- Weinhold, D. and Reis, E. 2008 Transportation costs and the spatial distribution of land use in the Brazilian Amazon. Global Environmental Change 18(1): 54-68.
- Wells, M. 1991 Trust funds and endowments as a biodiversity conservation tool. Policy Research Working Paper No. 1991-26. Environment Department, The World Bank, Washington, DC.
- Wells, M. and Brandon, K. 1992 People and parks: linking protected area management with local communities. The World Bank, Washington, DC. 116p.
- Wells, M., Guggenheim, S., Khan, A., Wardojo, W. and Jepson, P. 1999 Investing in biodiversity. A review of Indonesia's integrated conservation and development projects. Directions in Development. The World Bank, Washington, DC.
- Wells, M. P., McShane, T. O., Dublin, H. T., O'Connor, S. and Redford, K. H. 2004 Do integrated conversation and development projects have a future? *In*: McShane, T. and Wells, M. (eds) Making biodiversity projects work: towards more effective conservation. Columbia University Press, New York.
- Wemaere, M., Streck, C. and Chagas, T. 2009 Legal ownership and nature of Kyoto units and EU allowances. *In*: Freestone, D. and Streck, C. (eds) Legal aspects of carbon trading: Kyoto, Copenhagen and beyond. Oxford University Press, Oxford, UK.

- Wertz-Kanounnikoff, S. and Kongphan-apirak, M. 2009 Reducing emissions from deforestation and forest degradation: a preliminary survey of emerging REDD demonstration and readiness activities. Working Paper. CIFOR, Bogor, Indonesia.
- White, A. and Martin, A. 2002 Who owns the worlds forests? Forest tenure and public forests in transition. Forest Trends and Center for International Environmental Law, Washington, DC.
- Wilson, E. 2009 Company-led approaches to conflict resolution in the forest sector. The Forest Dialogue, London.
- Wily, L. A. no date [c. 2000] Making woodland management more democratic: cases from eastern and southern Africa. Drylands Programme, International Institute for Environment and Development, London. Mimeo.
- Winders, W. 2009 The politics of food supply: U.S. agricultural policy in the world economy. Yale University Press, New Haven, CT, USA.
- Wittayapak, C. and Vandergeest, P. (eds) 2009 The politics of decentralization: natural resource management in Asia. Mekong Press, Chiangmai, Thailand.
- Wittman, H. and Caron, C. 2009 Carbon offsets and inequality: social costs and co-benefits in Guatemala and Sri Lanka. Society and Natural Resources 22(8): 710-726.
- Wollenberg, E., Anderson, J. and Edmunds, D. 2001 Pluralism and the less powerful: accommodating multiple interests in local forest management. International Journal of Agricultural Resources, Governance and Ecology 1(3/4): 199-222.
- Wollenberg, E., Moeliono, M., Limberg, G., Iwan, R., Rhee, S. and Sudana, M. 2006 Between state and society: local governance of forests in Malinau, Indonesia. Forest Policy and Economics 8(4): 421-433.
- World Bank 1997 World development report. Oxford University Press, New York.
- World Bank 2004 Sustaining forests: a development strategy. The World Bank, Washington, DC.
- World Bank 2006 Strengthening forest law enforcement and governance. Addressing a systemic constraint to sustainable development. Report No. 36638-GLB. The World Bank, Washington, DC. http://www.illegal-logging.info/uploads/Forest_Law_FINAL_HI_RES_9_27_06_FINAL_web.pdf.
- World Bank 2008a Capacity building. The World Bank Carbon Finance Unit, Washington, DC. http://wbcarbonfinance.org/Router.cfm?Page=CapBuilding&ItemID=7 (12 Nov. 2009).

- World Bank 2008b The World development report 2007: agriculture for development. The World Bank, Washington, DC.
- World Bank 2009a Ease of doing business index. The World Bank, Washington, DC. http://www.doingbusiness.org/EconomyRankings/ (12 Nov. 2009).
- World Bank 2009b Projects and operations: project portfolio advanced search. http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/0,,menuPK:51563~pagePK:95873~piPK:95910~theSitePK:40941,00. html (22 Sep. 2009).
- World Bank 2009c World Bank poverty impact evaluations database. http://go.worldbank.org/DOKOVUWXR0 (12 Nov. 2009).
- World Bank 2009dWorld development report 2009: reshaping economic geography. The World Bank, Washington, DC.
- World Bank 2009e Making smart policy: using impact evaluation for policy making, case studies on evaluations that influenced policy. Doing Impact Evaluation No. 14. The World Bank, Washington, DC.
- WRI 2000 A first look at logging in Gabon. A Global Forest Watch Gabon Report. World Resources Institute, Washington, DC.
- WRI 2009 The duality of emerging tenure systems. World Resources Institute, Washington, DC. http://www.wri.org/publication/content/8069 (1 Nov. 2009).
- Wunder, S. 2003 Oil wealth and the fate of the forest: a comparative study of eight tropical countries. Routledge, London.
- Wunder, S. 2005 Payments for environmental services: some nuts and bolts. CIFOR Occasional Paper No. 42. CIFOR, Bogor, Indonesia. 24p.
- Wunder, S. 2008 How do we deal with leakage? *In*: Angelsen, A. (ed.) Moving ahead with REDD: issues, options and implications, 65-75. CIFOR, Bogor, Indonesia.
- Wunder, S. and Albán, M. 2008 Decentralized payments for environmental services: the cases of Pimampiro and PROFAFOR in Ecuador. Ecological Economics 65(4): 685-698.
- Wunder, S., Campbell, B., Frost, P. G. H., Sayer, J. A., Iwan, R. and Wollenberg, L. 2008a When donors get cold feet: the community conservation concession in Setulang (Kalimantan, Indonesia) that never happened. Ecology and Society 13(1): 12.
- Wunder, S., Engel, S. and Pagiola, S. 2008b Taking stock: a comparative analysis of payments for environmental services programs in developed and developing countries. Ecological Economics 65(4): 834-852.
- Wünscher, T., Engel, S. and Wunder, S. 2008 Spatial targeting of payments for environmental services: a tool for boosting conservation benefits. Ecological Economics 65(4): 822-833.

- Xu, Z., Xu, J., Deng, X., Huang, J., Uchida, E. and Rozelle, S. 2006 Grain for green versus grain: conflict between food security and conservation set aside in China. World Development 34(1): 130-148.
- Yao, C. E. and Bae, K. 2008 Firewood plantation as an alternative source of energy in the Philippines. Journal of Forest Science 24(3): 171-174.
- Young, K. R. 1994 Roads and the environmental degradation of tropical montane forests. Conservation Biology 8(4): 972-976.
- Zahabu, E. 2008 Sinks and sources. PhD thesis, University of Twente, Enschede, The Netherlands.
- Zahabu, E., Malimbwi, R. and Ngaga, Y. 2005 Payments for environmental services as incentive opportunities for catchment forest reserves management in Tanzania. Paper to the Tanzania Association of Foresters Meeting. Dar es Salaam, Tanzania, 6–9 November 2005.
- Zarin, D. J., Schulze, M. D, Vidal, E. A., Lentini, M. 2007. Beyond reaping the first harvest: What are the objectives of managing Amazonian forests for timber production? Conservation Biology 21(4):916-925