

Stephen Polasky

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

34,613
citations

70
h-index

119
g-index

119
ext. papers

40,177
ext. citations

11.2
avg, IF

7
L-index

#	Paper	IF	Citations
119	Agricultural sustainability and intensive production practices. <i>Nature</i> , 2002 , 418, 671-7	50.4	4610
118	Solutions for a cultivated planet. <i>Nature</i> , 2011 , 478, 337-42	50.4	4351
117	Land clearing and the biofuel carbon debt. <i>Science</i> , 2008 , 319, 1235-8	33.3	2663
116	Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11206-10	11.5	1918
115	Modeling multiple ecosystem services, biodiversity conservation, commodity production, and tradeoffs at landscape scales. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 4-11	5.5	1455
114	Ecosystem services in decision making: time to deliver. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 21-28	5.5	1215
113	Assessing nature's contributions to people. <i>Science</i> , 2018 , 359, 270-272	33.3	1034
112	Natural climate solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11645-11650	11.5	921
111	Integrating economic costs into conservation planning. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 681-7	10.9	741
110	Coastal ecosystem-based management with nonlinear ecological functions and values. <i>Science</i> , 2008 , 319, 321-3	33.3	688
109	Improvements in ecosystem services from investments in natural capital. <i>Science</i> , 2016 , 352, 1455-9	33.3	686
108	Species distributions, land values, and efficient conservation. <i>Science</i> , 1998 , 279, 2126-8	33.3	587
107	An index to assess the health and benefits of the global ocean. <i>Nature</i> , 2012 , 488, 615-20	50.4	578
106	Pervasive human-driven decline of life on Earth points to the need for transformative change. <i>Science</i> , 2019 , 366,	33.3	563
105	Natural capital and ecosystem services informing decisions: From promise to practice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7348-55	11.5	539
104	Non-linearity in ecosystem services: temporal and spatial variability in coastal protection. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 29-37	5.5	491
103	Where to put things? Spatial land management to sustain biodiversity and economic returns. <i>Biological Conservation</i> , 2008 , 141, 1505-1524	6.2	465

102	Integrating ecosystem-service tradeoffs into land-use decisions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7565-70	11.5	437
101	Future threats to biodiversity and pathways to their prevention. <i>Nature</i> , 2017 , 546, 73-81	50.4	417
100	Projected land-use change impacts on ecosystem services in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7492-7	11.5	412
99	The Impact of Land-Use Change on Ecosystem Services, Biodiversity and Returns to Landowners: A Case Study in the State of Minnesota. <i>Environmental and Resource Economics</i> , 2011 , 48, 219-242	4.4	407
98	Decision-making under great uncertainty: environmental management in an era of global change. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 398-404	10.9	359
97	Notes from the field: Lessons learned from using ecosystem service approaches to inform real-world decisions. <i>Ecological Economics</i> , 2015 , 115, 11-21	5.6	357
96	A comparison of reserve selection algorithms using data on terrestrial vertebrates in Oregon. <i>Biological Conservation</i> , 1997 , 80, 83-97	6.2	353
95	Mapping and valuing ecosystem services as an approach for conservation and natural-resource management. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1162, 265-83	6.5	345
94	Reconnecting to the biosphere. <i>Ambio</i> , 2011 , 40, 719-38	6.5	322
93	Measures of the effects of agricultural practices on ecosystem services. <i>Ecological Economics</i> , 2007 , 64, 286-296	5.6	317
92	Linking water quality and well-being for improved assessment and valuation of ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18619-24	11.5	291
91	Strengthening protected areas for biodiversity and ecosystem services in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1601-1606	11.5	283
90	Getting the measure of ecosystem services: a social-ecological approach. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 268-273	5.5	268
89	Maximizing return on investment in conservation. <i>Biological Conservation</i> , 2007 , 139, 375-388	6.2	263
88	Efficiency of incentives to jointly increase carbon sequestration and species conservation on a landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 9471-6	11.5	262
87	Environment. Looming global-scale failures and missing institutions. <i>Science</i> , 2009 , 325, 1345-6	33.3	259
86	Climate change and health costs of air emissions from biofuels and gasoline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2077-82	11.5	247
85	Dynamic reserve site selection. <i>Resources and Energy Economics</i> , 2004 , 26, 157-174	3.2	246

84	CONSERVING SPECIES IN A WORKING LANDSCAPE: LAND USE WITH BIOLOGICAL AND ECONOMIC OBJECTIVES 2005 , 15, 1387-1401		220
83	Selecting Biological Reserves Cost-Effectively: An Application to Terrestrial Vertebrate Conservation in Oregon. <i>Land Economics</i> , 2001 , 77, 68-78	1.6	215
82	Ecosystem services as a common language for coastal ecosystem-based management. <i>Conservation Biology</i> , 2010 , 24, 207-16	6	204
81	Choosing reserve networks with incomplete species information. <i>Biological Conservation</i> , 2000 , 94, 1-10	6.2	158
80	Modeling benefits from nature: using ecosystem services to inform coastal and marine spatial planning. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2012 , 8, 107-121		156
79	Modeling joint production of wildlife and timber. <i>Journal of Environmental Economics and Management</i> , 2004 , 48, 997-1017	5.3	156
78	Benefits, costs, and livelihood implications of a regional payment for ecosystem service program. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16681-6	11.5	148
77	Global modeling of nature's contributions to people. <i>Science</i> , 2019 , 366, 255-258	33.3	137
76	A note on optimal algorithms for reserve site selection. <i>Biological Conservation</i> , 1996 , 78, 353-355	6.2	137
75	Finding Common Ground for Biodiversity and Ecosystem Services. <i>BioScience</i> , 2012 , 62, 503-507	5.7	136
74	Integrating Ecology and Economics in the Study of Ecosystem Services: Some Lessons Learned. <i>Annual Review of Resource Economics</i> , 2009 , 1, 409-434	5.9	130
73	Optimal management with potential regime shifts. <i>Journal of Environmental Economics and Management</i> , 2011 , 62, 229-240	5.3	129
72	A Global System for Monitoring Ecosystem Service Change. <i>BioScience</i> , 2012 , 62, 977-986	5.7	124
71	Nudging pro-environmental behavior: evidence and opportunities. <i>Frontiers in Ecology and the Environment</i> , 2018 , 16, 159-168	5.5	119
70	Global agriculture and carbon trade-offs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12342-7	11.5	115
69	The biodiversity-dependent ecosystem service debt. <i>Ecology Letters</i> , 2015 , 18, 119-34	10	114
68	Measuring biological diversity. <i>Environmental and Ecological Statistics</i> , 1994 , 1, 95-103	2.2	114
67	Benefit relevant indicators: Ecosystem services measures that link ecological and social outcomes. <i>Ecological Indicators</i> , 2018 , 85, 1262-1272	5.8	112

66	Policy design for the Anthropocene. <i>Nature Sustainability</i> , 2019 , 2, 14-21	22.1	105
65	Takings, Compensation and Endangered Species Protection on Private Lands. <i>Journal of Economic Perspectives</i> , 1998 , 12, 35-52	9.9	104
64	Setting the bar: Standards for ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7356-61	11.5	103
63	Implementing the optimal provision of ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6248-53	11.5	100
62	Uncertainty in ecosystem services valuation and implications for assessing land use tradeoffs: An agricultural case study in the Minnesota River Basin. <i>Ecological Economics</i> , 2012 , 79, 71-79	5.6	93
61	The efficiency of voluntary incentive policies for preventing biodiversity loss. <i>Resources and Energy Economics</i> , 2011 , 33, 192-211	3.2	92
60	Nature Reserve Site Selection to Maximize Expected Species Covered. <i>Operations Research</i> , 2002 , 50, 946-955	2.3	90
59	A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014 , 9, 054002	6.2	80
58	A sustainability framework for assessing trade-offs in ecosystem services. <i>Ecology and Society</i> , 2015 , 20,	4.1	78
57	Our future in the Anthropocene biosphere. <i>Ambio</i> , 2021 , 50, 834-869	6.5	78
56	Impacts of conservation and human development policy across stakeholders and scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7396-401	11.5	76
55	Using gross ecosystem product (GEP) to value nature in decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14593-14601	11.5	74
54	Program on ecosystem change and society: an international research strategy for integrated social-ecological systems. <i>Current Opinion in Environmental Sustainability</i> , 2012 , 4, 134-138	7.2	74
53	Why conservation planning needs socioeconomic data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6505-6	11.5	74
52	The social costs of nitrogen. <i>Science Advances</i> , 2016 , 2, e1600219	14.3	73
51	Role of economics in analyzing the environment and sustainable development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5233-5238	11.5	72
50	A comparison of taxonomic distinctness versus richness as criteria for setting conservation priorities for North American birds. <i>Biological Conservation</i> , 2001 , 97, 99-105	6.2	71
49	Optimizing land use decision-making to sustain Brazilian agricultural profits, biodiversity and ecosystem services. <i>Biological Conservation</i> , 2016 , 204, 221-230	6.2	70

48	Quantifying flood mitigation services: The economic value of Otter Creek wetlands and floodplains to Middlebury, VT. <i>Ecological Economics</i> , 2016 , 130, 16-24	5.6	68
47	On trade, land-use, and biodiversity. <i>Journal of Environmental Economics and Management</i> , 2004 , 48, 911-925	5.3	65
46	Developing a production possibility set of wildlife species persistence and timber harvest value. <i>Canadian Journal of Forest Research</i> , 2002 , 32, 1329-1342	1.9	64
45	So you want your research to be relevant? Building the bridge between ecosystem services research and practice. <i>Ecosystem Services</i> , 2017 , 26, 170-182	6.1	63
44	Maximising return on conservation investment in the conterminous USA. <i>Ecology Letters</i> , 2012 , 15, 1249-1256	6.0	60
43	Inclusive Wealth as a Metric of Sustainable Development. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 445-466	17.2	56
42	Valuing ecological systems and services. <i>F1000 Biology Reports</i> , 2011 , 3, 14		55
41	Using return on investment to maximize conservation effectiveness in Argentine grasslands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20855-62	11.5	52
40	An attainable global vision for conservation and human well-being. <i>Frontiers in Ecology and the Environment</i> , 2018 , 16, 563-570	5.5	51
39	WEIGHING CONSERVATION OBJECTIVES: MAXIMUM EXPECTED COVERAGE VERSUS ENDANGERED SPECIES PROTECTION 2004 , 14, 1936-1945		49
38	Life cycle assessment needs predictive spatial modelling for biodiversity and ecosystem services. <i>Nature Communications</i> , 2017 , 8, 15065	17.4	44
37	Air-quality-related health damages of maize. <i>Nature Sustainability</i> , 2019 , 2, 397-403	22.1	41
36	Are investments to promote biodiversity conservation and ecosystem services aligned?. <i>Oxford Review of Economic Policy</i> , 2012 , 28, 139-163	6.3	39
35	Evaluating the return in ecosystem services from investment in public land acquisitions. <i>PLoS ONE</i> , 2013 , 8, e62202	3.7	38
34	Global trends in nature's contributions to people. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 32799-32805	11.5	34
33	Evidence-Based Causal Chains for Linking Health, Development, and Conservation Actions. <i>BioScience</i> , 2018 , 68, 182-193	5.7	32
32	Land-use change and costs to rural households: a case study in groundwater nitrate contamination. <i>Environmental Research Letters</i> , 2014 , 9, 074002	6.2	31
31	Analysis of the Threshold and Expected Coverage Approaches to the Probabilistic Reserve Site Selection Problem. <i>Environmental Modeling and Assessment</i> , 2002 , 7, 81-89	2	31

30	Reducing human nitrogen use for food production. <i>Scientific Reports</i> , 2016 , 6, 30104	4.9	31
29	National indicators for observing ecosystem service change. <i>Global Environmental Change</i> , 2015 , 35, 12-21	6.1	24
28	Conservation and Human Welfare: Economic Analysis of Ecosystem Services. <i>Environmental and Resource Economics</i> , 2011 , 48, 151-159	4.4	21
27	You can't always get what you want: conservation planning with feedback effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5245-6	11.5	19
26	Optimizing wetland restoration to improve water quality at a regional scale. <i>Environmental Research Letters</i> , 2019 , 14, 064006	6.2	15
25	Ecosystem service information to benefit sustainability standards for commodity supply chains. <i>Annals of the New York Academy of Sciences</i> , 2015 , 1355, 77-97	6.5	15
24	Towards ecosystem accounts for Rwanda: Tracking 25 years of change in flows and potential supply of ecosystem services. <i>People and Nature</i> , 2020 , 2, 163-188	5.9	14
23	Chapter 29 The Economics of Biodiversity. <i>Handbook of Environmental Economics</i> , 2005 , 1517-1560		13
22	Mainstreaming ecosystem services in state-level conservation planning: progress and future needs. <i>Ecology and Society</i> , 2017 , 22,	4.1	11
21	Biodiversity conservation as a promising frontier for behavioural science. <i>Nature Human Behaviour</i> , 2021 , 5, 550-556	12.8	11
20	Balancing tradeoffs: Reconciling multiple environmental goals when ecosystem services vary regionally. <i>Environmental Research Letters</i> , 2018 , 13, 064008	6.2	10
19	Conservation economics: economic analysis of biodiversity conservation and ecosystem services. <i>Environmental Economics and Policy Studies</i> , 2009 , 10, 1-20	2.2	10
18	Conserving Biological Diversity and the Conservation Reserve Program. <i>Growth and Change</i> , 1995 , 26, 383-404	2.3	10
17	Global Food Demand and Carbon-Preserving Cropland Expansion under Varying Levels of Intensification. <i>Land Economics</i> , 2016 , 92, 579-592	1.6	10
16	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. <i>BioScience</i> , 2020 , 70, 1139-1144	5.7	8
15	Ecosystem restoration on Hainan Island: can we optimize for enhancing regulating services and poverty alleviation?. <i>Environmental Research Letters</i> , 2020 , 15, 084039	6.2	6
14	Sustainability and Biodiversity 2013 , 71-84		6
13	Assessing the comparative productivity advantage of bioenergy feedstocks at different latitudes. <i>Environmental Research Letters</i> , 2012 , 7, 045906	6.2	5

12	Conservation needs to integrate knowledge across scales. <i>Nature Ecology and Evolution</i> , 2021 ,	12.3	4
11	An Introduction to the Economics of Natural Capital. <i>Review of Environmental Economics and Policy</i> , 2021 , 15, 87-94	6	4
10	Reconciling corruption with conservation triage: Should investments shift from the last best places?. <i>PLoS Biology</i> , 2018 , 16, e2005620	9.7	4
9	Governance in the Face of Extreme Events: Lessons from Evolutionary Processes for Structuring Interventions, and the Need to Go Beyond. <i>Ecosystems</i> , 2021 , 1-15	3.9	3
8	How Do We Stem Biodiversity Loss? 2019 , 332-357		2
7	Mapping the planet's critical natural assets for people		2
6	Reply to Phelps et al: Liability rules provide incentives to protect natural capital. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5380	11.5	1
5	The Case and Movement for Securing People and Nature 2019 , 3-16		0
4	Comments on Key issues for attention from ecological economists by Paul Ehrlich. <i>Environment and Development Economics</i> , 2008 , 13, 25-28	1.8	
3	Response to Hockley: The merit of economic and biological measures in conservation planning. <i>Trends in Ecology and Evolution</i> , 2007 , 22, 287-288	10.9	
2	Is fertilization efficiency misleading?. <i>Nature</i> , 2003 , 422, 398-398	50.4	
1	Scaling Pathways for Inclusive Green Growth 2019 , 17-27		