Stephen Polasky

List of Publications by Year in Descending Order

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	Conservation needs to integrate knowledge across scales. *Nature Ecology and Evolution*, **2021**,	12.3	4
118	Our future in the Anthropocene biosphere. *Ambio*, **2021**, 50, 834-869	6.5	78
117	Biodiversity conservation as a promising frontier for behavioural science. *Nature Human Behaviour*, **2021**, 5, 550-556	12.8	11
116	An Introduction to the Economics of Natural Capital. *Review of Environmental Economics and Policy*, **2021**, 15, 87-94	6	4
115	Governance in the Face of Extreme Events: Lessons from Evolutionary Processes for Structuring Interventions, and the Need to Go Beyond. *Ecosystems*, **2021**, 1-15	3.9	3
114	Global trends in nature's contributions to people. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 32799-32805	11.5	34
113	Ecosystem restoration on Hainan Island: can we optimize for enhancing regulating services and poverty alleviation?. *Environmental Research Letters*, **2020**, 15, 084039	6.2	6
112	Using gross ecosystem product (GEP) to value nature in decision making. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14593-14601	11.5	74
111	Towards ecosystem accounts for Rwanda: Tracking 25 years of change in flows and potential supply of ecosystem services. *People and Nature*, **2020**, 2, 163-188	5.9	14
110	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. *BioScience*, **2020**, 70, 1139-1144	5.7	8
109	Optimizing wetland restoration to improve water quality at a regional scale. *Environmental Research Letters*, **2019**, 14, 064006	6.2	15
108	Role of economics in analyzing the environment and sustainable development. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 5233-5238	11.5	72
107	Air-quality-related health damages of maize. *Nature Sustainability*, **2019**, 2, 397-403	22.1	41
106	How Do We Stem Biodiversity Loss? **2019**, 332-357		2
105	Global modeling of nature's contributions to people. *Science*, **2019**, 366, 255-258	33.3	137
104	Scaling Pathways for Inclusive Green Growth **2019**, 17-27		
103	The Case and Movement for Securing People and Nature **2019**, 3-16		0

102	Pervasive human-driven decline of life on Earth points to the need for transformative change. *Science*, **2019**, 366,	33.3	563
101	Policy design for the Anthropocene. *Nature Sustainability*, **2019**, 2, 14-21	22.1	105
100	Nudging pro-environmental behavior: evidence and opportunities. *Frontiers in Ecology and the Environment*, **2018**, 16, 159-168	5.5	119
99	Assessing nature's contributions to people. *Science*, **2018**, 359, 270-272	33.3	1034
98	Balancing tradeoffs: Reconciling multiple environmental goals when ecosystem services vary regionally. *Environmental Research Letters*, **2018**, 13, 064008	6.2	10
97	Benefit relevant indicators: Ecosystem services measures that link ecological and social outcomes. *Ecological Indicators*, **2018**, 85, 1262-1272	5.8	112
96	An attainable global vision for conservation and human well-being. *Frontiers in Ecology and the Environment*, **2018**, 16, 563-570	5.5	51
95	Reconciling corruption with conservation triage: Should investments shift from the last best places?. *PLoS Biology*, **2018**, 16, e2005620	9.7	4
94	Evidence-Based Causal Chains for Linking Health, Development, and Conservation Actions. *BioScience*, **2018**, 68, 182-193	5.7	32
93	Strengthening protected areas for biodiversity and ecosystem services in China. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1601-1606	11.5	283
92	Life cycle assessment needs predictive spatial modelling for biodiversity and ecosystem services. *Nature Communications*, **2017**, 8, 15065	17.4	44
91	Future threats to biodiversity and pathways to their prevention. *Nature*, **2017**, 546, 73-81	50.4	417
90	Natural climate solutions. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11645-11650	11.5	921
89	So you want your research to be relevant? Building the bridge between ecosystem services research and practice. *Ecosystem Services*, **2017**, 26, 170-182	6.1	63
88	Mainstreaming ecosystem services in state-level conservation planning: progress and future needs. *Ecology and Society*, **2017**, 22,	4.1	11
87	Quantifying flood mitigation services: The economic value of Otter Creek wetlands and floodplains to Middlebury, VT. *Ecological Economics*, **2016**, 130, 16-24	5.6	68
86	The social costs of nitrogen. *Science Advances*, **2016**, 2, e1600219	14.3	73
85	Optimizing land use decision-making to sustain Brazilian agricultural profits, biodiversity and ecosystem services. *Biological Conservation*, **2016**, 204, 221-230	6.2	70

84	Improvements in ecosystem services from investments in natural capital. *Science*, **2016**, 352, 1455-9	33.3	686
83	Reducing human nitrogen use for food production. *Scientific Reports*, **2016**, 6, 30104	4.9	31
82	Global Food Demand and Carbon-Preserving Cropland Expansion under Varying Levels of Intensification. *Land Economics*, **2016**, 92, 579-592	1.6	10
81	A sustainability framework for assessing trade-offs in ecosystem services. *Ecology and Society*, **2015**, 20,	4.1	78
80	Impacts of conservation and human development policy across stakeholders and scales. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7396-401	11.5	76
79	Setting the bar: Standards for ecosystem services. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7356-61	11.5	103
78	Natural capital and ecosystem services informing decisions: From promise to practice. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7348-55	11.5	539
77	Reply to Phelps et al: Liability rules provide incentives to protect natural capital. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E5380	11.5	1
76	National indicators for observing ecosystem service change. *Global Environmental Change*, **2015**, 35, 12-21	10.1	24
75	The biodiversity-dependent ecosystem service debt. *Ecology Letters*, **2015**, 18, 119-34	10	114
74	Notes from the field: Lessons learned from using ecosystem service approaches to inform real-world decisions. *Ecological Economics*, **2015**, 115, 11-21	5.6	357
73	Ecosystem service information to benefit sustainability standards for commodity supply chains. *Annals of the New York Academy of Sciences*, **2015**, 1355, 77-97	6.5	15
72	Inclusive Wealth as a Metric of Sustainable Development. *Annual Review of Environment and Resources*, **2015**, 40, 445-466	17.2	56
71	Global agriculture and carbon trade-offs. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12342-7	11.5	115
70	Implementing the optimal provision of ecosystem services. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6248-53	11.5	100
69	Projected land-use change impacts on ecosystem services in the United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7492-7	11.5	412
68	Land-use change and costs to rural households: a case study in groundwater nitrate contamination. *Environmental Research Letters*, **2014**, 9, 074002	6.2	31
67	A tradeoff frontier for global nitrogen use and cereal production. *Environmental Research Letters*, **2014**, 9, 054002	6.2	80

66	Getting the measure of ecosystem services: a social–ecological approach. *Frontiers in Ecology and the Environment*, **2013**, 11, 268-273	5.5	268
65	Benefits, costs, and livelihood implications of a regional payment for ecosystem service program. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16681-6	11.5	148
64	Sustainability and Biodiversity **2013**, 71-84		6
63	Evaluating the return in ecosystem services from investment in public land acquisitions. *PLoS ONE*, **2013**, 8, e62202	3.7	38
62	Uncertainty in ecosystem services valuation and implications for assessing land use tradeoffs: An agricultural case study in the Minnesota River Basin. *Ecological Economics*, **2012**, 79, 71-79	5.6	93
61	Maximising return on conservation investment in the conterminous USA. *Ecology Letters*, **2012**, 15, 1249-1256	11	60
60	Are investments to promote biodiversity conservation and ecosystem services aligned?. *Oxford Review of Economic Policy*, **2012**, 28, 139-163	6.3	39
59	An index to assess the health and benefits of the global ocean. *Nature*, **2012**, 488, 615-20	50.4	578
58	Program on ecosystem change and society: an international research strategy for integrated social–ecological systems. *Current Opinion in Environmental Sustainability*, **2012**, 4, 134-138	7.2	74
57	A Global System for Monitoring Ecosystem Service Change. *BioScience*, **2012**, 62, 977-986	5.7	124
56	Linking water quality and well-being for improved assessment and valuation of ecosystem services. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18619-24	11.5	291
55	Assessing the comparative productivity advantage of bioenergy feedstocks at different latitudes. *Environmental Research Letters*, **2012**, 7, 045906	6.2	5
54	Modeling benefits from nature: using ecosystem services to inform coastal and marine spatial planning. *International Journal of Biodiversity Science, Ecosystem Services & Management*, **2012**, 8, 107-121		156
53	Integrating ecosystem-service tradeoffs into land-use decisions. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 7565-70	11.5	437
52	Finding Common Ground for Biodiversity and Ecosystem Services. *BioScience*, **2012**, 62, 503-507	5.7	136
51	Solutions for a cultivated planet. *Nature*, **2011**, 478, 337-42	50.4	4351
50	Optimal management with potential regime shifts. *Journal of Environmental Economics and Management*, **2011**, 62, 229-240	5.3	129
49	The efficiency of voluntary incentive policies for preventing biodiversity loss. *Resources and Energy Economics*, **2011**, 33, 192-211	3.2	92

48	Decision-making under great uncertainty: environmental management in an era of global change. *Trends in Ecology and Evolution*, **2011**, 26, 398-404	10.9	359
47	The Impact of Land-Use Change on Ecosystem Services, Biodiversity and Returns to Landowners: A Case Study in the State of Minnesota. *Environmental and Resource Economics*, **2011**, 48, 219-242	4.4	407
46	Conservation and Human Welfare: Economic Analysis of Ecosystem Services. *Environmental and Resource Economics*, **2011**, 48, 151-159	4.4	21
45	Reconnecting to the biosphere. *Ambio*, **2011**, 40, 719-38	6.5	322
44	Valuing ecological systems and services. *F1000 Biology Reports*, **2011**, 3, 14		55
43	Ecosystem services as a common language for coastal ecosystem-based management. *Conservation Biology*, **2010**, 24, 207-16	6	204
42	Using return on investment to maximize conservation effectiveness in Argentine grasslands. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 20855-62	11.5	52
41	Conservation economics: economic analysis of biodiversity conservation and ecosystem services. *Environmental Economics and Policy Studies*, **2009**, 10, 1-20	2.2	10
40	Environment. Looming global-scale failures and missing institutions. *Science*, **2009**, 325, 1345-6	33.3	259
39	Mapping and valuing ecosystem services as an approach for conservation and natural-resource management. *Annals of the New York Academy of Sciences*, **2009**, 1162, 265-83	6.5	345
38	Modeling multiple ecosystem services, biodiversity conservation, commodity production, and tradeoffs at landscape scales. *Frontiers in Ecology and the Environment*, **2009**, 7, 4-11	5.5	1455
37	Ecosystem services in decision making: time to deliver. *Frontiers in Ecology and the Environment*, **2009**, 7, 21-28	5.5	1215
36	Non-linearity in ecosystem services: temporal and spatial variability in coastal protection. *Frontiers in Ecology and the Environment*, **2009**, 7, 29-37	5.5	491
35	Integrating Ecology and Economics in the Study of Ecosystem Services: Some Lessons Learned. *Annual Review of Resource Economics*, **2009**, 1, 409-434	5.9	130
34	Climate change and health costs of air emissions from biofuels and gasoline. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2077-82	11.5	247
33	Where to put things? Spatial land management to sustain biodiversity and economic returns. *Biological Conservation*, **2008**, 141, 1505-1524	6.2	465
32	Coastal ecosystem-based management with nonlinear ecological functions and values. *Science*, **2008**, 319, 321-3	33.3	688
31	Why conservation planning needs socioeconomic data. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 6505-6	11.5	74

30	Comments on Key issues for attention from ecological economists by Paul Ehrlich. *Environment and Development Economics*, **2008**, 13, 25-28	1.8	
29	Efficiency of incentives to jointly increase carbon sequestration and species conservation on a landscape. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9471-6	11.5	262
28	Land clearing and the biofuel carbon debt. *Science*, **2008**, 319, 1235-8	33.3	2663
27	Measures of the effects of agricultural practices on ecosystem services. *Ecological Economics*, **2007**, 64, 286-296	5.6	317
26	Response to Hockley: The merit of economic and biological measures in conservation planning. *Trends in Ecology and Evolution*, **2007**, 22, 287-288	10.9	
25	Maximizing return on investment in conservation. *Biological Conservation*, **2007**, 139, 375-388	6.2	263
24	You can't always get what you want: conservation planning with feedback effects. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5245-6	11.5	19
23	Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11206-10	11.5	1918
22	Integrating economic costs into conservation planning. *Trends in Ecology and Evolution*, **2006**, 21, 681-7	10.9	741
21	Chapter 29 The Economics of Biodiversity. *Handbook of Environmental Economics*, **2005**, 1517-1560		13
20	CONSERVING SPECIES IN A WORKING LANDSCAPE: LAND USE WITH BIOLOGICAL AND ECONOMIC OBJECTIVES **2005**, 15, 1387-1401		220
19	WEIGHING CONSERVATION OBJECTIVES: MAXIMUM EXPECTED COVERAGE VERSUS ENDANGERED SPECIES PROTECTION **2004**, 14, 1936-1945		49
18	Dynamic reserve site selection. *Resources and Energy Economics*, **2004**, 26, 157-174	3.2	246
17	On trade, land-use, and biodiversity. *Journal of Environmental Economics and Management*, **2004**, 48, 911-925	5.3	65
16	Modeling joint production of wildlife and timber. *Journal of Environmental Economics and Management*, **2004**, 48, 997-1017	5.3	156
15	Is fertilization efficiency misleading?. *Nature*, **2003**, 422, 398-398	50.4	
14	Agricultural sustainability and intensive production practices. *Nature*, **2002**, 418, 671-7	50.4	4610
13	Analysis of the Threshold and Expected Coverage Approaches to the Probabilistic Reserve Site Selection Problem. *Environmental Modeling and Assessment*, **2002**, 7, 81-89	2	31

12	Nature Reserve Site Selection to Maximize Expected Species Covered. *Operations Research*, **2002**, 50, 946-955	2.3	90
11	Developing a production possibility set of wildlife species persistence and timber harvest value. *Canadian Journal of Forest Research*, **2002**, 32, 1329-1342	1.9	64
10	Selecting Biological Reserves Cost-Effectively: An Application to Terrestrial Vertebrate Conservation in Oregon. *Land Economics*, **2001**, 77, 68-78	1.6	215
9	A comparison of taxonomic distinctness versus richness as criteria for setting conservation priorities for North American birds. *Biological Conservation*, **2001**, 97, 99-105	6.2	71
8	Choosing reserve networks with incomplete species information. *Biological Conservation*, **2000**, 94, 1-10	6.2	158
7	Species distributions, land values, and efficient conservation. *Science*, **1998**, 279, 2126-8	33.3	587
6	Takings, Compensation and Endangered Species Protection on Private Lands. *Journal of Economic Perspectives*, **1998**, 12, 35-52	9.9	104
5	A comparison of reserve selection algorithms using data on terrestrial vertebrates in Oregon. *Biological Conservation*, **1997**, 80, 83-97	6.2	353
4	A note on optimal algorithms for reserve site selection. *Biological Conservation*, **1996**, 78, 353-355	6.2	137
3	Conserving Biological Diversity and the Conservation Reserve Program. *Growth and Change*, **1995**, 26, 383-404	2.3	10
2	Measuring biological diversity. *Environmental and Ecological Statistics*, **1994**, 1, 95-103	2.2	114
1	Mapping the planet□ critical natural assets for people		2