

Stephen Polasky

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

45,816
citations

9234

74
h-index

24915

109
g-index

119
all docs

119
docs citations

119
times ranked

41907
citing authors

#	ARTICLE	IF	CITATIONS
1	Governance in the Face of Extreme Events: Lessons from Evolutionary Processes for Structuring Interventions, and the Need to Go Beyond. <i>Ecosystems</i> , 2022, 25, 697-711.	1.6	18
2	Conservation needs to integrate knowledge across scales. <i>Nature Ecology and Evolution</i> , 2022, 6, 118-119.	3.4	40
3	An Introduction to the Economics of Natural Capital. <i>Review of Environmental Economics and Policy</i> , 2021, 15, 87-94.	3.1	14
4	Our future in the Anthropocene biosphere. <i>Ambio</i> , 2021, 50, 834-869.	2.8	275
5	Biodiversity conservation as a promising frontier for behavioural science. <i>Nature Human Behaviour</i> , 2021, 5, 550-556.	6.2	54
6	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.	1.7	25
7	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. <i>BioScience</i> , 2020, 70, 1139-1144.	2.2	14
8	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.	3.3	103
9	Ecosystem restoration on Hainan Island: can we optimize for enhancing regulating services and poverty alleviation?. <i>Environmental Research Letters</i> , 2020, 15, 084039.	2.2	18
10	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.	3.3	234
11	How Do We Stem Biodiversity Loss?. , 2019, , 332-357.		2
12	Global modeling of nature's contributions to people. <i>Science</i> , 2019, 366, 255-258.	6.0	279
13	Optimizing wetland restoration to improve water quality at a regional scale. <i>Environmental Research Letters</i> , 2019, 14, 064006.	2.2	33
14	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.	3.3	128
15	Air-quality-related health damages of maize. <i>Nature Sustainability</i> , 2019, 2, 397-403.	11.5	73
16	The Case and Movement for Securing People and Nature. , 2019, , 3-16.		2
17	Pervasive human-driven decline of life on Earth points to the need for transformative change. <i>Science</i> , 2019, 366, .	6.0	1,213
18	Policy design for the Anthropocene. <i>Nature Sustainability</i> , 2019, 2, 14-21.	11.5	176

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19	Scaling Pathways for Inclusive Green Growth. , 2019, , 17-27.		0
20	Nudging proâ€environmental behavior: evidence and opportunities. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 159-168.	1.9	223
21	Assessing nature's contributions to people. <i>Science</i> , 2018, 359, 270-272.	6.0	1,661
22	Balancing tradeoffs: Reconciling multiple environmental goals when ecosystem services vary regionally. <i>Environmental Research Letters</i> , 2018, 13, 064008.	2.2	16
23	Benefit relevant indicators: Ecosystem services measures that link ecological and social outcomes. <i>Ecological Indicators</i> , 2018, 85, 1262-1272.	2.6	165
24	An attainable global vision for conservation and human wellâ€being. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 563-570.	1.9	71
25	Reconciling corruption with conservation triage: Should investments shift from the last best places?. <i>PLoS Biology</i> , 2018, 16, e2005620.	2.6	5
26	Evidence-Based Causal Chains for Linking Health, Development, and Conservation Actions. <i>BioScience</i> , 2018, 68, 182-193.	2.2	53
27	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.	3.3	461
28	Life cycle assessment needs predictive spatial modelling for biodiversity and ecosystem services. <i>Nature Communications</i> , 2017, 8, 15065.	5.8	69
29	Future threats to biodiversity and pathways to their prevention. <i>Nature</i> , 2017, 546, 73-81.	13.7	736
30	Natural climate solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11645-11650.	3.3	1,709
31	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.	2.3	93
32	Mainstreaming ecosystem services in state-level conservation planning: progress and future needs. <i>Ecology and Society</i> , 2017, 22, .	1.0	15
33	Reducing human nitrogen use for food production. <i>Scientific Reports</i> , 2016, 6, 30104.	1.6	46
34	Global Food Demand and Carbon-Preserving Cropland Expansion under Varying Levels of Intensification. <i>Land Economics</i> , 2016, 92, 579-592.	0.5	11
35	Quantifying flood mitigation services: The economic value of Otter Creek wetlands and floodplains to Middlebury, VT. <i>Ecological Economics</i> , 2016, 130, 16-24.	2.9	89
36	The social costs of nitrogen. <i>Science Advances</i> , 2016, 2, e1600219.	4.7	118

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37	Optimizing land use decision-making to sustain Brazilian agricultural profits, biodiversity and ecosystem services. <i>Biological Conservation</i> , 2016, 204, 221-230.	1.9	96
38	Improvements in ecosystem services from investments in natural capital. <i>Science</i> , 2016, 352, 1455-1459.	6.0	1,117
39	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.	1.8	21
40	Inclusive Wealth as a Metric of Sustainable Development. <i>Annual Review of Environment and Resources</i> , 2015, 40, 445-466.	5.6	80
41	A sustainability framework for assessing trade-offs in ecosystem services. <i>Ecology and Society</i> , 2015, 20, .	1.0	121
42	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, 7396-7401.	3.3	100
43	Setting the bar: Standards for ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7356-7361.	3.3	124
44	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, 7348-7355.	3.3	717
45	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-E5380.	3.3	2
46	National indicators for observing ecosystem service change. <i>Global Environmental Change</i> , 2015, 35, 12-21.	3.6	28
47	The biodiversity-dependent ecosystem service debt. <i>Ecology Letters</i> , 2015, 18, 119-134.	3.0	146
48	Notes from the field: Lessons learned from using ecosystem service approaches to inform real-world decisions. <i>Ecological Economics</i> , 2015, 115, 11-21.	2.9	433
49	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, 7492-7497.	3.3	557
50	Land-use change and costs to rural households: a case study in groundwater nitrate contamination. <i>Environmental Research Letters</i> , 2014, 9, 074002.	2.2	38
51	A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014, 9, 054002.	2.2	100
52	Global agriculture and carbon trade-offs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12342-12347.	3.3	154
53	Implementing the optimal provision of ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6248-6253.	3.3	119
54	Getting the measure of ecosystem services: a social-ecological approach. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 268-273.	1.9	330

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55	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, 16681-16686.	3.3	188
56	Sustainability and Biodiversity. , 2013, , 71-84.		11
57	Evaluating the Return in Ecosystem Services from Investment in Public Land Acquisitions. PLoS ONE, 2013, 8, e62202.	1.1	47
58	Assessing the comparative productivity advantage of bioenergy feedstocks at different latitudes. Environmental Research Letters, 2012, 7, 045906.	2.2	7
59	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.	2.9	217
60	Integrating ecosystem-service tradeoffs into land-use decisions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7565-7570.	3.3	571
61	Finding Common Ground for Biodiversity and Ecosystem Services. BioScience, 2012, 62, 503-507.	2.2	161
62	Maximising return on conservation investment in the conterminous USA. Ecology Letters, 2012, 15, 1249-1256.	3.0	71
63	Are investments to promote biodiversity conservation and ecosystem services aligned?. Oxford Review of Economic Policy, 2012, 28, 139-163.	1.0	48
64	An index to assess the health and benefits of the global ocean. Nature, 2012, 488, 615-620.	13.7	736
65	Program on ecosystem change and society: an international research strategy for integrated social-ecological systems. Current Opinion in Environmental Sustainability, 2012, 4, 134-138.	3.1	89
66	A Global System for Monitoring Ecosystem Service Change. BioScience, 2012, 62, 977-986.	2.2	142
67	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, 18619-18624.	3.3	371
68	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.	2.9	122
69	Solutions for a cultivated planet. Nature, 2011, 478, 337-342.	13.7	5,821
70	Optimal management with potential regime shifts. Journal of Environmental Economics and Management, 2011, 62, 229-240.	2.1	156
71	The efficiency of voluntary incentive policies for preventing biodiversity loss. Resources and Energy Economics, 2011, 33, 192-211.	1.1	113
72	Decision-making under great uncertainty: environmental management in an era of global change. Trends in Ecology and Evolution, 2011, 26, 398-404.	4.2	446

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73	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.	1.5	537
74	Conservation and Human Welfare: Economic Analysis of Ecosystem Services. <i>Environmental and Resource Economics</i> , 2011, 48, 151-159.	1.5	27
75	Reconnecting to the Biosphere. <i>Ambio</i> , 2011, 40, 719-38.	2.8	420
76	Valuing ecological systems and services. <i>F1000 Biology Reports</i> , 2011, 3, 14.	4.0	84
77	Ecosystem Services as a Common Language for Coastal Ecosystem-Based Management. <i>Conservation Biology</i> , 2010, 24, 207-216.	2.4	246
78	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, 20855-20862.	3.3	59
79	Conservation economics: economic analysis of biodiversity conservation and ecosystem services. <i>Environmental Economics and Policy Studies</i> , 2009, 10, 1-20.	0.8	13
80	Looming Global-Scale Failures and Missing Institutions. <i>Science</i> , 2009, 325, 1345-1346.	6.0	317
81	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, 265-283.	1.8	431
82	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.	1.9	1,809
83	Ecosystem services in decision making: time to deliver. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 21-28.	1.9	1,490
84	Nonlinearity in ecosystem services: temporal and spatial variability in coastal protection. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 29-37.	1.9	622
85	Integrating Ecology and Economics in the Study of Ecosystem Services: Some Lessons Learned. <i>Annual Review of Resource Economics</i> , 2009, 1, 409-434.	1.5	152
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, 2077-2082.	3.3	279
87	Land Clearing and the Biofuel Carbon Debt. <i>Science</i> , 2008, 319, 1235-1238.	6.0	3,066
88	Where to put things? Spatial land management to sustain biodiversity and economic returns. <i>Biological Conservation</i> , 2008, 141, 1505-1524.	1.9	536
89	Coastal Ecosystem-Based Management with Nonlinear Ecological Functions and Values. <i>Science</i> , 2008, 319, 321-323.	6.0	834
90	Why conservation planning needs socioeconomic data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6505-6506.	3.3	81

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91	Comments on "Key issues for attention from ecological economists"™ by Paul Ehrlich. Environment and Development Economics, 2008, 13, 25-28.	1.3	0
92	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, 9471-9476.	3.3	311
93	Response to Hockley: The merit of economic and biological measures in conservation planning. Trends in Ecology and Evolution, 2007, 22, 287-288.	4.2	0
94	Maximizing return on investment in conservation. Biological Conservation, 2007, 139, 375-388.	1.9	302
95	Measures of the effects of agricultural practices on ecosystem services. Ecological Economics, 2007, 64, 286-296.	2.9	379
96	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, 11206-11210.	3.3	2,257
97	Integrating economic costs into conservation planning. Trends in Ecology and Evolution, 2006, 21, 681-687.	4.2	868
98	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, 5245-5246.	3.3	19
99	CONSERVING SPECIES IN A WORKING LANDSCAPE: LAND USE WITH BIOLOGICAL AND ECONOMIC OBJECTIVES. , 2005, 15, 1387-1401.		255
100	Chapter 29 The Economics of Biodiversity. Handbook of Environmental Economics, 2005, , 1517-1560.	0.1	20
101	WEIGHING CONSERVATION OBJECTIVES: MAXIMUM EXPECTED COVERAGE VERSUS ENDANGERED SPECIES PROTECTION. , 2004, 14, 1936-1945.		51
102	Dynamic reserve site selection. Resources and Energy Economics, 2004, 26, 157-174.	1.1	285
103	On trade, land-use, and biodiversity. Journal of Environmental Economics and Management, 2004, 48, 911-925.	2.1	77
104	Modeling joint production of wildlife and timber. Journal of Environmental Economics and Management, 2004, 48, 997-1017.	2.1	179
105	Is fertilization efficiency misleading?. Nature, 2003, 422, 398-398.	13.7	0
106	Nature Reserve Site Selection to Maximize Expected Species Covered. Operations Research, 2002, 50, 946-955.	1.2	105
107	Developing a production possibility set of wildlife species persistence and timber harvest value. Canadian Journal of Forest Research, 2002, 32, 1329-1342.	0.8	72
108	Agricultural sustainability and intensive production practices. Nature, 2002, 418, 671-677.	13.7	5,748

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109	Title is missing!. Environmental Modeling and Assessment, 2002, 7, 81-89.	1.2	38
110	Selecting Biological Reserves Cost-Effectively: An Application to Terrestrial Vertebrate Conservation in Oregon. Land Economics, 2001, 77, 68-78.	0.5	249
111	A comparison of taxonomic distinctness versus richness as criteria for setting conservation priorities for North American birds. Biological Conservation, 2001, 97, 99-105.	1.9	82
112	Choosing reserve networks with incomplete species information. Biological Conservation, 2000, 94, 1-10.	1.9	169
113	Species Distributions, Land Values, and Efficient Conservation. Science, 1998, 279, 2126-2128.	6.0	677
114	Takings, Compensation and Endangered Species Protection on Private Lands. Journal of Economic Perspectives, 1998, 12, 35-52.	2.7	121
115	A comparison of reserve selection algorithms using data on terrestrial vertebrates in Oregon. Biological Conservation, 1997, 80, 83-97.	1.9	391
116	A note on optimal algorithms for reserve site selection. Biological Conservation, 1996, 78, 353-355.	1.9	156
117	Conserving Biological Diversity and the Conservation Reserve Program. Growth and Change, 1995, 26, 383-404.	1.3	13
118	Measuring biological diversity. Environmental and Ecological Statistics, 1994, 1, 95-103.	1.9	142