Stephen Polasky

List of Publications by Year
in descending order

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		9234	24915
118	45,816	74	109
papers	citations	h-index	g-index

119	119	119	41907
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solutions for a cultivated planet. Nature, 2011, 478, 337-342.	13.7	5,821
2	Agricultural sustainability and intensive production practices. Nature, 2002, 418, 671-677.	13.7	5,748
3	Land Clearing and the Biofuel Carbon Debt. Science, 2008, 319, 1235-1238.	6.0	3,066
4	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
5	Modeling multiple ecosystem services, biodiversity conservation, commodity production, and tradeoffs at landscape scales. Frontiers in Ecology and the Environment, 2009, 7, 4-11.	1.9	1,809
6	Natural climate solutions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11645-11650.	3.3	1,709
7	Assessing nature's contributions to people. Science, 2018, 359, 270-272.	6.0	1,661
8	Ecosystem services in decision making: time to deliver. Frontiers in Ecology and the Environment, 2009, 7, 21-28.	1.9	1,490
9	Pervasive human-driven decline of life on Earth points to the need for transformative change. Science, 2019, 366, .	6.0	1,213
10	Improvements in ecosystem services from investments in natural capital. Science, 2016, 352, 1455-1459.	6.0	1,117
11	Integrating economic costs into conservation planning. Trends in Ecology and Evolution, 2006, 21, 681-687.	4.2	868
12	Coastal Ecosystem-Based Management with Nonlinear Ecological Functions and Values. Science, 2008, 319, 321-323.	6.0	834
13	An index to assess the health and benefits of the global ocean. Nature, 2012, 488, 615-620.	13.7	736
14	Future threats to biodiversity and pathways to their prevention. Nature, 2017, 546, 73-81.	13.7	736
15	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, 7348-7355.	3.3	717
16	Species Distributions, Land Values, and Efficient Conservation. Science, 1998, 279, 2126-2128.	6.0	677
17	Nonâ€linearity in ecosystem services: temporal and spatial variability in coastal protection. Frontiers in Ecology and the Environment, 2009, 7, 29-37.	1.9	622
18	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

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19	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, 7492-7497.	3.3	557
20	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.	1.5	537
21	Where to put things? Spatial land management to sustain biodiversity and economic returns. Biological Conservation, 2008, 141, 1505-1524.	1.9	536
22	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.	3.3	461
23	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
24	Notes from the field: Lessons learned from using ecosystem service approaches to inform real-world decisions. Ecological Economics, 2015, 115, 11-21.	2.9	433
25	Mapping and Valuing Ecosystem Services as an Approach for Conservation and Naturalâ€Resource Management. Annals of the New York Academy of Sciences, 2009, 1162, 265-283.	1.8	431
26	Reconnecting to the Biosphere. Ambio, 2011, 40, 719-38.	2.8	420
27	A comparison of reserve selection algorithms using data on terrestrial vertebrates in Oregon. Biological Conservation, 1997, 80, 83-97.	1.9	391
28	Measures of the effects of agricultural practices on ecosystem services. Ecological Economics, 2007, 64, 286-296.	2.9	379
29	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
30	Getting the measure of ecosystem services: a socialâ€“ecological approach. Frontiers in Ecology and the Environment, 2013, 11, 268-273.	1.9	330
31	Looming Global-Scale Failures and Missing Institutions. Science, 2009, 325, 1345-1346.	6.0	317
32	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
33	Maximizing return on investment in conservation. Biological Conservation, 2007, 139, 375-388.	1.9	302
34	Dynamic reserve site selection. Resources and Energy Economics, 2004, 26, 157-174.	1.1	285
35	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, 2077-2082.	3.3	279
36	Global modeling of natureâ€™s contributions to people. Science, 2019, 366, 255-258.	6.0	279

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37	Our future in the Anthropocene biosphere. Ambio, 2021, 50, 834-869.	2.8	275
38	CONSERVING SPECIES IN A WORKING LANDSCAPE: LAND USE WITH BIOLOGICAL AND ECONOMIC OBJECTIVES. , 2005, 15, 1387-1401.		255
39	Selecting Biological Reserves Cost-Effectively: An Application to Terrestrial Vertebrate Conservation in Oregon. Land Economics, 2001, 77, 68-78.	0.5	249
40	Ecosystem Services as a Common Language for Coastal Ecosystemâ€Based Management. Conservation Biology, 2010, 24, 207-216.	2.4	246
41	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.	3.3	234
42	Nudging proâ€environmental behavior: evidence and opportunities. Frontiers in Ecology and the Environment, 2018, 16, 159-168.	1.9	223
43	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
44	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
45	Modeling joint production of wildlife and timber. Journal of Environmental Economics and Management, 2004, 48, 997-1017.	2.1	179
46	Policy design for the Anthropocene. Nature Sustainability, 2019, 2, 14-21.	11.5	176
47	Choosing reserve networks with incomplete species information. Biological Conservation, 2000, 94, 1-10.	1.9	169
48	Benefit relevant indicators: Ecosystem services measures that link ecological and social outcomes. Ecological Indicators, 2018, 85, 1262-1272.	2.6	165
49	Finding Common Ground for Biodiversity and Ecosystem Services. BioScience, 2012, 62, 503-507.	2.2	161
50	A note on optimal algorithms for reserve site selection. Biological Conservation, 1996, 78, 353-355.	1.9	156
51	Optimal management with potential regime shifts. Journal of Environmental Economics and Management, 2011, 62, 229-240.	2.1	156
52	Global agriculture and carbon trade-offs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12342-12347.	3.3	154
53	Integrating Ecology and Economics in the Study of Ecosystem Services: Some Lessons Learned. Annual Review of Resource Economics, 2009, 1, 409-434.	1.5	152
54	The biodiversityâ€dependent ecosystem service debt. Ecology Letters, 2015, 18, 119-134.	3.0	146

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55	Measuring biological diversity. Environmental and Ecological Statistics, 1994, 1, 95-103.	1.9	142
56	A Global System for Monitoring Ecosystem Service Change. BioScience, 2012, 62, 977-986.	2.2	142
57	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.	3.3	128
58	Setting the bar: Standards for ecosystem services. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7356-7361.	3.3	124
59	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
60	Takings, Compensation and Endangered Species Protection on Private Lands. Journal of Economic Perspectives, 1998, 12, 35-52.	2.7	121
61	A sustainability framework for assessing trade-offs in ecosystem services. Ecology and Society, 2015, 20, .	1.0	121
62	Implementing the optimal provision of ecosystem services. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6248-6253.	3.3	119
63	The social costs of nitrogen. Science Advances, 2016, 2, e1600219.	4.7	118
64	The efficiency of voluntary incentive policies for preventing biodiversity loss. Resources and Energy Economics, 2011, 33, 192-211.	1.1	113
65	Nature Reserve Site Selection to Maximize Expected Species Covered. Operations Research, 2002, 50, 946-955.	1.2	105
66	Global trends in natureâ€™s contributions to people. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32799-32805.	3.3	103
67	A tradeoff frontier for global nitrogen use and cereal production. Environmental Research Letters, 2014, 9, 054002.	2.2	100
68	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, 7396-7401.	3.3	100
69	Optimizing land use decision-making to sustain Brazilian agricultural profits, biodiversity and ecosystem services. Biological Conservation, 2016, 204, 221-230.	1.9	96
70	So you want your research to be relevant? Building the bridge between ecosystem services research and practice. Ecosystem Services, 2017, 26, 170-182.	2.3	93
71	Program on ecosystem change and society: an international research strategy for integrated socialâ€“ecological systems. Current Opinion in Environmental Sustainability, 2012, 4, 134-138.	3.1	89
72	Quantifying flood mitigation services: The economic value of Otter Creek wetlands and floodplains to Middlebury, VT. Ecological Economics, 2016, 130, 16-24.	2.9	89

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73	Valuing ecological systems and services. F1000 Biology Reports, 2011, 3, 14.	4.0	84
74	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
75	Why conservation planning needs socioeconomic data. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6505-6506.	3.3	81
76	Inclusive Wealth as a Metric of Sustainable Development. Annual Review of Environment and Resources, 2015, 40, 445-466.	5.6	80
77	On trade, land-use, and biodiversity. Journal of Environmental Economics and Management, 2004, 48, 911-925.	2.1	77
78	Air-quality-related health damages of maize. Nature Sustainability, 2019, 2, 397-403.	11.5	73
79	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
80	Maximising return on conservation investment in the conterminous USA. Ecology Letters, 2012, 15, 1249-1256.	3.0	71
81	An attainable global vision for conservation and human wellâ€being. Frontiers in Ecology and the Environment, 2018, 16, 563-570.	1.9	71
82	Life cycle assessment needs predictive spatial modelling for biodiversity and ecosystem services. Nature Communications, 2017, 8, 15065.	5.8	69
83	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, 20855-20862.	3.3	59
84	Biodiversity conservation as a promising frontier for behavioural science. Nature Human Behaviour, 2021, 5, 550-556.	6.2	54
85	Evidence-Based Causal Chains for Linking Health, Development, and Conservation Actions. BioScience, 2018, 68, 182-193.	2.2	53
86	WEIGHING CONSERVATION OBJECTIVES: MAXIMUM EXPECTED COVERAGE VERSUS ENDANGERED SPECIES PROTECTION. , 2004, 14, 1936-1945.		51
87	Are investments to promote biodiversity conservation and ecosystem services aligned?. Oxford Review of Economic Policy, 2012, 28, 139-163.	1.0	48
88	Evaluating the Return in Ecosystem Services from Investment in Public Land Acquisitions. PLoS ONE, 2013, 8, e62202.	1.1	47
89	Reducing human nitrogen use for food production. Scientific Reports, 2016, 6, 30104.	1.6	46
90	Conservation needs to integrate knowledge across scales. Nature Ecology and Evolution, 2022, 6, 118-119.	3.4	40

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91	Title is missing!. Environmental Modeling and Assessment, 2002, 7, 81-89.	1.2	38
92	Land-use change and costs to rural households: a case study in groundwater nitrate contamination. Environmental Research Letters, 2014, 9, 074002.	2.2	38
93	Optimizing wetland restoration to improve water quality at a regional scale. Environmental Research Letters, 2019, 14, 064006.	2.2	33
94	National indicators for observing ecosystem service change. Global Environmental Change, 2015, 35, 12-21.	3.6	28
95	Conservation and Human Welfare: Economic Analysis of Ecosystem Services. Environmental and Resource Economics, 2011, 48, 151-159.	1.5	27
96	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.	1.7	25
97	Ecosystem service information to benefit sustainability standards for commodity supply chains. Annals of the New York Academy of Sciences, 2015, 1355, 77-97.	1.8	21
98	Chapter 29 The Economics of Biodiversity. Handbook of Environmental Economics, 2005, , 1517-1560.	0.1	20
99	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
100	Ecosystem restoration on Hainan Island: can we optimize for enhancing regulating services and poverty alleviation?. Environmental Research Letters, 2020, 15, 084039.	2.2	18
101	Governance in the Face of Extreme Events: Lessons from Evolutionary Processes for Structuring Interventions, and the Need to Go Beyond. Ecosystems, 2022, 25, 697-711.	1.6	18
102	Balancing tradeoffs: Reconciling multiple environmental goals when ecosystem services vary regionally. Environmental Research Letters, 2018, 13, 064008.	2.2	16
103	Mainstreaming ecosystem services in state-level conservation planning: progress and future needs. Ecology and Society, 2017, 22, .	1.0	15
104	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. BioScience, 2020, 70, 1139-1144.	2.2	14
105	An Introduction to the Economics of Natural Capital. Review of Environmental Economics and Policy, 2021, 15, 87-94.	3.1	14
106	Conserving Biological Diversity and the Conservation Reserve Program. Growth and Change, 1995, 26, 383-404.	1.3	13
107	Conservation economics: economic analysis of biodiversity conservation and ecosystem services. Environmental Economics and Policy Studies, 2009, 10, 1-20.	0.8	13
108	Sustainability and Biodiversity. , 2013, , 71-84.		11

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109	Global Food Demand and Carbon-Preserving Cropland Expansion under Varying Levels of Intensification. Land Economics, 2016, 92, 579-592.	0.5	11
110	Assessing the comparative productivity advantage of bioenergy feedstocks at different latitudes. Environmental Research Letters, 2012, 7, 045906.	2.2	7
111	Reconciling corruption with conservation triage: Should investments shift from the last best places?. PLoS Biology, 2018, 16, e2005620.	2.6	5
112	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-E5380.	3.3	2
113	How Do We Stem Biodiversity Loss?. , 2019, , 332-357.		2
114	The Case and Movement for Securing People and Nature. , 2019, , 3-16.		2
115	Is fertilization efficiency misleading?. Nature, 2003, 422, 398-398.	13.7	0
116	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
117	Comments on â€˜Key issues for attention from ecological economistsâ€™ by Paul Ehrlich. Environment and Development Economics, 2008, 13, 25-28.	1.3	0
118	Scaling Pathways for Inclusive Green Growth. , 2019, , 17-27.		0