Max Troell

List of Publications by Year
in descending order

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132	21,700	24978 57	17546 121
papers	citations	h-index	g-index

142	142	142	19197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Food in the Anthropocene: the EATâ€“Lancet Commission on healthy diets from sustainable food systems. Lancet, The, 2019, 393, 447-492.	6.3	5,421
2	Effect of aquaculture on world fish supplies. Nature, 2000, 405, 1017-1024.	13.7	2,310
3	Options for keeping the food system within environmental limits. Nature, 2018, 562, 519-525.	13.7	1,709
4	A 20-year retrospective review of global aquaculture. Nature, 2021, 591, 551-563.	13.7	871
5	Integrated aquaculture: rationale, evolution and state of the art emphasizing seaweed biofiltration in modern mariculture. Aquaculture, 2004, 231, 361-391.	1.7	773
6	INTEGRATING SEAWEEDS INTO MARINE AQUACULTURE SYSTEMS: A KEY TOWARD SUSTAINABILITY. Journal of Phycology, 2001, 37, 975-986.	1.0	583
7	Social-ecological systems as complex adaptive systems: modeling and policy implications. Environment and Development Economics, 2013, 18, 111-132.	1.3	530
8	Contribution of Fisheries and Aquaculture to Food Security and Poverty Reduction: Assessing the Current Evidence. World Development, 2016, 79, 177-196.	2.6	515
9	Does aquaculture add resilience to the global food system?. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13257-13263.	3.3	468
10	Ecological engineering in aquaculture â€" Potential for integrated multi-trophic aquaculture (IMTA) in marine offshore systems. Aquaculture, 2009, 297, 1-9.	1.7	457
11	Integrated mariculture: asking the right questions. Aquaculture, 2003, 226, 69-90.	1.7	352
12	China's aquaculture and the world's wild fisheries. Science, 2015, 347, 133-135.	6.0	315
13	Ecosystem perspectives on management of disease in shrimp pond farming. Aquaculture, 2000, 191, 145-161.	1.7	282
14	Meeting the food and nutrition needs of the poor: the role of fish and the opportunities and challenges emerging from the rise of aquaculture^a. Journal of Fish Biology, 2013, 83, 1067-1084.	0.7	242
15	Energy Intensity of Agriculture and Food Systems. Annual Review of Environment and Resources, 2011, 36, 223-246.	5.6	240
16	Environmental performance of blue foods. Nature, 2021, 597, 360-365.	13.7	233
17	Integrated marine cultivation of Gracilaria chilensis (Gracilariales, Rhodophyta) and salmon cages for reduced environmental impact and increased economic output. Aquaculture, 1997, 156, 45-61.	1.7	231
18	Transnational Corporations as â€˜Keystone Actorsâ€™ in Marine Ecosystems. PLoS ONE, 2015, 10, e0127533.	1.1	187

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19	Confronting Feedbacks of Degraded Marine Ecosystems. Ecosystems, 2012, 15, 695-710.	1.6	179
20	Feeding aquaculture growth through globalization: Exploitation of marine ecosystems for fishmeal. Global Environmental Change, 2007, 17, 238-249.	3.6	163
21	Emerging COVID-19 impacts, responses, and lessons for building resilience in the seafood system. Global Food Security, 2021, 28, 100494.	4.0	151
22	Title is missing!. Journal of Applied Phycology, 1999, 11, 89-97.	1.5	150
23	Ecosystem Goods and Services from Swedish Coastal Habitats: Identification, Valuation, and Implications of Ecosystem Shifts. Ambio, 2007, 36, 534-544.	2.8	150
24	Abalone farming in South Africa: An overview with perspectives on kelp resources, abalone feed, potential for on-farm seaweed production and socio-economic importance. Aquaculture, 2006, 257, 266-281.	1.7	148
25	Unpacking factors influencing antimicrobial use in global aquaculture and their implication for management: a review from a systems perspective. Sustainability Science, 2018, 13, 1105-1120.	2.5	147
26	Synchronous failure: the emerging causal architecture of global crisis. Ecology and Society, 2015, 20, .	1.0	144
27	Distribution Pattern of Shrimps and Fish AmongAvicenniaandRhizophoraMicrohabitats in the Pagbilao Mangroves, Philippines. Estuarine, Coastal and Shelf Science, 1999, 48, 223-234.	0.9	139
28	Regime shifts and management. Ecological Economics, 2012, 84, 15-22.	2.9	124
29	State of the Art and Challenges for Offshore Integrated Multi-Trophic Aquaculture (IMTA). Frontiers in Marine Science, 2018, 5, .	1.2	121
30	Shift in fish assemblage structure due to loss of seagrass Zostera marina habitats in Sweden. Estuarine, Coastal and Shelf Science, 2006, 67, 123-132.	0.9	120
31	A revolution without people? Closing the peopleâ€“policy gap in aquaculture development. Aquaculture, 2015, 447, 44-55.	1.7	119
32	Rewiring food systems to enhance human health and biosphere stewardship. Environmental Research Letters, 2017, 12, 100201.	2.2	112
33	The Costs of Eutrophication from Salmon Farming: Implications for Policy. Journal of Environmental Management, 1994, 40, 173-182.	3.8	110
34	Masked, diluted and drowned out: how global seafood trade weakens signals from marine ecosystems. Fish and Fisheries, 2016, 17, 1175-1182.	2.7	104
35	Integrated tank cultivation of salmonids and Gracilaria chilensis (Gracilariales, Rhodophyta). Hydrobiologia, 1996, 326-327, 75-82.	1.0	102
36	Combined climate and nutritional performance of seafoods. Journal of Cleaner Production, 2019, 230, 402-411.	4.6	93

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37	Scenarios for Global Aquaculture and Its Role in Human Nutrition. Reviews in Fisheries Science and Aquaculture, 2021, 29, 122-138.	5.1	92
38	Growth and reproductive simulation of candidate shellfish species at fish cages in the Southern Mediterranean: Dynamic Energy Budget (DEB) modelling for integrated multi-trophic aquaculture. Aquaculture, 2012, 324-325, 259-266.	1.7	90
39	Interplay of trade and food system resilience: Gains on supply diversity over time at the cost of trade independency. Global Food Security, 2020, 24, 100360.	4.0	88
40	Multitrophic Integration for Sustainable Marine Aquaculture. , 2008, , 2463-2475.		84
41	Applying resilience thinking to production ecosystems. Ecosphere, 2014, 5, 1-11.	1.0	84
42	The Need for a Balanced Ecosystem Approach to Blue Revolution Aquaculture. Environment, 2007, 49, 36-43.	0.8	83
43	Adaptive Management of the Great Barrier Reef and the Grand Canyon World Heritage Areas. Ambio, 2007, 36, 586-592.	2.8	77
44	Mapping diversity of species in global aquaculture. Reviews in Aquaculture, 2020, 12, 1090-1100.	4.6	77
45	Integrated seaweed cultivation on an abalone farm in South Africa. Journal of Applied Phycology, 2008, 20, 579-595.	1.5	75
46	Contagious exploitation of marine resources. Frontiers in Ecology and the Environment, 2015, 13, 435-440.	1.9	75
47	Shocks to fish production: Identification, trends, and consequences. Global Environmental Change, 2017, 42, 24-32.	3.6	75
48	THE ECOLOGICAL FOOTPRINT CONCEPT FOR SUSTAINABLE SEAFOOD PRODUCTION: A REVIEW. , 1998, 8, S63-S71.		74
49	Ecological footprint for assessment of resource use and development limitations in shrimp and tilapia aquaculture. Aquaculture Research, 1997, 28, 753-766.	0.9	71
50	An attainable global vision for conservation and human wellâ€being. Frontiers in Ecology and the Environment, 2018, 16, 563-570.	1.9	71
51	Modelling output and retention of suspended solids in an integrated salmonâ€“mussel culture. Ecological Modelling, 1998, 110, 65-77.	1.2	70
52	China at a Crossroads: An Analysis of China's Changing Seafood Production and Consumption. One Earth, 2020, 3, 32-44.	3.6	70
53	Ecological footprint for assessment of resource use and development limitations in shrimp and tilapia aquaculture. Aquaculture Research, 1997, 28, 753-766.	0.9	70
54	Eco-certification of Farmed Seafood: Will it Make a Difference?. Ambio, 2013, 42, 659-674.	2.8	69

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55	Title is missing!. Environment, Development and Sustainability, 2002, 4, 185-200.	2.7	67
56	Towards a typology of interactions between small-scale fisheries and global seafood trade. Marine Policy, 2016, 65, 1-10.	1.5	65
57	Aquaculture will continue to depend more on land than sea. Nature, 2022, 603, E2-E4.	13.7	65
58	Sea Cucumber Aquaculture in the Western Indian Ocean: Challenges for Sustainable Livelihood and Stock Improvement. Ambio, 2012, 41, 109-121.	2.8	64
59	Blind spots in visions of a â€œblue economyâ€•could undermine the ocean's contribution to eliminating hunger and malnutrition. One Earth, 2021, 4, 28-38.	3.6	63
60	Global estimation of areas with suitable environmental conditions for mariculture species. PLoS ONE, 2018, 13, e0191086.	1.1	63
61	Managing aquaculture for sustainability in tropical Lake Kariba, Zimbabwe. Ecological Economics, 1996, 18, 141-159.	2.9	62
62	Reframing the sustainable seafood narrative. Global Environmental Change, 2019, 59, 101991.	3.6	59
63	Modeling Social--Ecological Scenarios in Marine Systems. BioScience, 2013, 63, 735-744.	2.2	55
64	The `seafood gap' in the food-water nexus literatureâ€”issues surrounding freshwater use in seafood production chains. Advances in Water Resources, 2017, 110, 505-514.	1.7	55
65	Marine Ecosystem Science on an Intertwined Planet. Ecosystems, 2017, 20, 54-61.	1.6	54
66	Interventions for improving the productivity and environmental performance of global aquaculture for future food security. One Earth, 2021, 4, 1220-1232.	3.6	54
67	Comparison of Spore Inoculated and Vegetative Propagated Cultivation Methods of Gracilaria chilensis in an Integrated Seaweed and Fish Cage Culture. Aquaculture International, 2005, 13, 409-422.	1.1	51
68	Aquaculture and Energy Use. , 2004, , 97-108.		49
69	Remote Sensing and Ethnobotanical Assessment of the Mangrove Forest Changes in the Navachiste-San Ignacio-Macapule Lagoon Complex, Sinaloa, Mexico. Ecology and Society, 2005, 10, .	1.0	49
70	Compound climate risks threaten aquatic food system benefits. Nature Food, 2021, 2, 673-682.	6.2	48
71	Regime Shifts and Ecosystem Service Generation in Swedish Coastal Soft Bottom Habitats: When Resilience is Undesirable. Ecology and Society, 2005, 10, .	1.0	47
72	Do Penaeid Shrimps have a Preference for Mangrove Habitats? Distribution Pattern Analysis on Inhaca Island, Mozambique. Estuarine, Coastal and Shelf Science, 2002, 55, 427-436.	0.9	46

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73	Eco-Labeled Seafood: Determinants for (Blue) Green Consumption. Sustainability, 2016, 8, 884.	1.6	46
74	Prawn postlarvae fishing in coastal Bangladesh: Challenges for sustainable livelihoods. Marine Policy, 2010, 34, 218-227.	1.5	45
75	WTO must ban harmful fisheries subsidies. Science, 2021, 374, 544-544.	6.0	45
76	The Ecological Footprint Concept for Sustainable Seafood Production: A Review. , 1998, 8, S63.		44
77	Fishing for Prawn Larvae in Bangladesh: An Important Coastal Livelihood Causing Negative Effects on the Environment. Ambio, 2010, 39, 20-29.	2.8	41
78	Coevolutionary Governance of Antibiotic and Pesticide Resistance. Trends in Ecology and Evolution, 2020, 35, 484-494.	4.2	41
79	Evidence for action: a One Health learning platform on interventions to tackle antimicrobial resistance. Lancet Infectious Diseases, The, 2020, 20, e307-e311.	4.6	37
80	The vital roles of blue foods in the global food system. Global Food Security, 2022, 33, 100637.	4.0	37
81	Quick Fixes for the Environment: Part of the Solution or Part of the Problem?. Environment, 2006, 48, 20-27.	0.8	32
82	More than fish: Policy coherence and benefit sharing as necessary conditions for equitable aquaculture development. Marine Policy, 2021, 123, 104271.	1.5	31
83	Time to rethink trophic levels in aquaculture policy. Reviews in Aquaculture, 2021, 13, 1583-1593.	4.6	31
84	Cage fish farming in the tropical Lake Kariba, Zimbabwe: impact and biogeochemical changes in sediment. Aquaculture Research, 1997, 28, 527-544.	0.9	31
85	Farming the Ocean â€“ Seaweeds as a Quick Fix for the Climate?. Reviews in Fisheries Science and Aquaculture, 2023, 31, 285-295.	5.1	31
86	AMR-Intervene: a socialâ€“ecological framework to capture the diversity of actions to tackle antimicrobial resistance from a One Health perspective. Journal of Antimicrobial Chemotherapy, 2021, 76, 1-21.	1.3	29
87	Mariculture Waste Management. , 2008, , 2211-2217.		28
88	Ocean space for seafood. Nature Ecology and Evolution, 2017, 1, 1224-1225.	3.4	28
89	Farming of Bluefin Tunaâ€“Reconsidering Global Estimates and Sustainability Concerns. Reviews in Fisheries Science and Aquaculture, 2014, 22, 184-192.	5.1	27
90	Recirculating Aquaculture Is Possible without Major Energy Tradeoff: Life Cycle Assessment of Warmwater Fish Farming in Sweden. Environmental Science & Technology, 2020, 54, 16062-16070.	4.6	27

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91	The Risks and Benefits of Genetically Modified Crops: A Multidisciplinary Perspective. Ecology and Society, 2000, 4, .	0.9	27
92	Cage fish farming in the tropical Lake Kariba, Zimbabwe: impact and biogeochemical changes in sediment. Aquaculture Research, 1997, 28, 527-544.	0.9	26
93	The aquaculture supply chain in the time of covid-19 pandemic: Vulnerability, resilience, solutions and priorities at the global scale. Environmental Science and Policy, 2022, 127, 98-110.	2.4	25
94	The Synergistic Impacts of Anthropogenic Stressors and COVID-19 on Aquaculture: A Current Global Perspective. Reviews in Fisheries Science and Aquaculture, 2022, 30, 123-135.	5.1	24
95	Mangrove dependence and socio-economic concerns in shrimp hatcheries of Andhra Pradesh, India. Environmental Conservation, 2003, 30, 344-352.	0.7	23
96	Governing the salmon farming industry: Comparison between national regulations and the ASC salmon standard. Marine Policy, 2019, 106, 103534.	1.5	23
97	Use of Wastewater from Striped Catfish (Pangasianodon hypophthalmus) Pond Culture for Integrated Riceâ€“Fishâ€“Vegetable Farming Systems in the Mekong Delta, Vietnam. Agroecology and Sustainable Food Systems, 2015, 39, 580-597.	1.0	22
98	Antimicrobial use in aquaculture: Some complementing facts. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3317.	3.3	21
99	Seafood from a changing Arctic. Ambio, 2017, 46, 368-386.	2.8	18
100	Indonesian aquaculture futuresâ€"identifying interventions for reducing environmental impacts. Environmental Research Letters, 2019, 14, 124062.	2.2	18
101	Salmon Farming in Context: Response to Blacket al.. Journal of Environmental Management, 1997, 50, 95-103.	3.8	16
102	Comment on â€˜Water footprint of marine protein consumptionâ€"aquacultureâ€™s link to agricultureâ€™. Environmental Research Letters, 2014, 9, 109001.	2.2	16
103	Evolving Perspectives of Stewardship in the Seafood Industry. Frontiers in Marine Science, 2021, 8, .	1.2	15
104	Prospects of Low Trophic Marine Aquaculture Contributing to Food Security in a Net Zero-Carbon World. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	15
105	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. BioScience, 2020, 70, 1139-1144.	2.2	14
106	Modeling Socialâ€“Ecological Scenarios in Marine Systems. BioScience, 2013, 63, 735-744.	2.2	13
107	Characterizing social-ecological context and success factors of antimicrobial resistance interventions across the One Health spectrum: analysis of 42 interventions targeting E. coli. BMC Infectious Diseases, 2021, 21, 873.	1.3	13
108	Scientific mobilization of keystone actors for biosphere stewardship. Scientific Reports, 2022, 12, 3802.	1.6	13

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109	Ecological and functional consequences of coastal ocean acidification: Perspectives from the Baltic-Skagerrak System. Ambio, 2019, 48, 831-854.	2.8	11
110	Economic incentives drive the conversion of agriculture to aquaculture in the Indian Sundarbans: Livelihood and environmental implications of different aquaculture types. Ambio, 2022, 51, 1963-1977.	2.8	11
111	Sustainable optimization of global aquatic omega-3 supply chain could substantially narrow the nutrient gap. Resources, Conservation and Recycling, 2022, 181, 106260.	5.3	11
112	Integrated tank cultivation of salmonids and Gracilaria chilensis (Gracilariales, Rhodophyta). , 1996, , 75-82.		10
113	Factors influencing antimicrobial resistance in the European food system and potential leverage points for intervention: A participatory, One Health study. PLoS ONE, 2022, 17, e0263914.	1.1	10
114	Building Social-Ecological System Resilience to Tackle Antimicrobial Resistance Across the One Health Spectrum: Protocol for a Mixed Methods Study. JMIR Research Protocols, 2021, 10, e24378.	0.5	9
115	Seafood in Food Security: A Call for Bridging the Terrestrial-Aquatic Divide. Frontiers in Sustainable Food Systems, 2022, 5, .	1.8	9
116	Aquaculture. , 2013, , 189-201.		8
117	Ecological engineering in aquaculture: use of seaweeds for removing nutrients from intensive mariculture. , 1999, , 603-611.		7
118	Control of the herbivorous gastropod Fissurella mutabilis (Sow.) in a land-based integrated abaloneâ€“seaweed culture. Aquaculture, 2006, 255, 384-388.	1.7	7
119	A rapid review of meta-analyses and systematic reviews of environmental footprints of food commodities and diets. Global Food Security, 2021, 28, 100508.	4.0	7
120	Aquaculture. , 2001, , 185-198.		6
121	The devil is in the details â€“ the carbon footprint of a shrimp. Frontiers in Ecology and the Environment, 2018, 16, 10-11.	1.9	6
122	Societal causes of, and responses to, ocean acidification. Ambio, 2019, 48, 816-830.	2.8	6
123	Studying Factors Affecting Success of Antimicrobial Resistance Interventions through the Lens of Experience: A Thematic Analysis. Antibiotics, 2022, 11, 639.	1.5	6
124	Stepwise function of natural growth forScylla serratain East Africa: a valuable tool for assessing growth of mud crabs in aquaculture. Aquaculture Research, 2015, 46, 2938-2953.	0.9	5
125	Aquaculture â˜†. , 2017, , .		4
126	Life Cycle Assessments and Their Applications to Aquaculture Production Systems. , 2012, , 5893-5909.		4

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127	Life Cycle Assessments and Their Applications to Aquaculture Production Systems. , 2013, , 1050-1066.		4
128	Certifying farmed seafood. , 2019, , 157-178.		4
129	Strong and weak sustainability in Nordic aquaculture policies. Aquaculture, 2022, 550, 737841.	1.7	3
130	Antimicrobial Resistance in South East Asia: A Participatory Systems Modelling Approach. International Journal of Infectious Diseases, 2022, 116, S14.	1.5	3
131	Regime Shifts and Management. , 2013, , 339-348.		0
132	Integrated seaweed cultivation on an abalone farm in South Africa. , 2007, , 129-145.		0