Alexander F Bouwman

List of Publications by Year
in descending order

171 papers	25,842 citations	9786 73 h-index	7745 150 g-index
186 all docs	186 docs citations	186 times ranked	24943 citing authors

#	Article	IF	Citations
1	DENITRIFICATION ACROSS LANDSCAPES AND WATERSCAPES: A SYNTHESIS. , 2006, 16, 2064-2090.		1,326
2	The global nitrogen cycle in the twenty-first century. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130164.	4.0	1,114
3	A global high-resolution emission inventory for ammonia. Global Biogeochemical Cycles, 1997, 11, 561-587.	4.9	1,002
4	A mid-term analysis of progress toward international biodiversity targets. Science, 2014, 346, 241-244.	12.6	949
5	N2O and NO emission from agricultural fields and soils under natural vegetation: summarizing available measurement data and modeling of global annual emissions. Nutrient Cycling in Agroecosystems, 2006, 74, 207-228.	2.2	815
6	A comprehensive quantification of global nitrous oxide sources and sinks. Nature, 2020, 586, 248-256.	27.8	814
7	Exploring global changes in nitrogen and phosphorus cycles in agriculture induced by livestock production over the 1900â€“2050 period. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20882-20887.	7.1	742
8	Direct emission of nitrous oxide from agricultural soils. Nutrient Cycling in Agroecosystems, 1996, 46, 53-70.	2.2	702
9	Emissions of N2O and NO from fertilized fields: Summary of available measurement data. Global Biogeochemical Cycles, 2002, 16, 6-1-6-13.	4.9	698
10	Climate benefits of changing diet. Climatic Change, 2009, 95, 83-102.	3.6	640
11	Global river nutrient export: A scenario analysis of past and future trends. Global Biogeochemical Cycles, 2010, 24, .	4.9	597
12	Sources and delivery of carbon, nitrogen, and phosphorus to the coastal zone: An overview of Global Nutrient Export from Watersheds (NEWS) models and their application. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	567
13	Phosphorus demand for the 1970â€“2100 period: A scenario analysis of resource depletion. Global Environmental Change, 2010, 20, 428-439.	7.8	533
14	Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. Global Environmental Change, 2017, 42, 237-250.	7.8	523
15	Modeling global annual N2O and NO emissions from fertilized fields. Global Biogeochemical Cycles, 2002, 16, 28-1-28-9.	4.9	512
16	Residual soil phosphorus as the missing piece in the global phosphorus crisis puzzle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6348-6353.	7.1	486
17	Closing the global N2O budget: A retrospective analysis 1500-1994. Global Biogeochemical Cycles, 1999, 13, 1-8.	4.9	418
18	Human alteration of the global nitrogen and phosphorus soil balances for the period 1970â€“2050. Global Biogeochemical Cycles, 2009, 23, .	4.9	404

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19	Global Nutrient Export from WaterSheds 2 (NEWS 2): Model development and implementation. Environmental Modelling and Software, 2010, 25, 837-853.	4.5	404
20	Estimation of global NH3volatilization loss from synthetic fertilizers and animal manure applied to arable lands and grasslands. Global Biogeochemical Cycles, 2002, 16, 8-1-8-14.	4.9	369
21	Global air emission inventories for anthropogenic sources of NOx, NH3 and N2O in 1990. Environmental Pollution, 1998, 102, 135-148.	7.5	340
22	Global riverine N and P transport to ocean increased during the 20th century despite increased retention along the aquatic continuum. Biogeosciences, 2016, 13, 2441-2451.	3.3	329
23	A Global Analysis of Acidification and Eutrophication of Terrestrial Ecosystems. Water, Air, and Soil Pollution, 2002, 141, 349-382.	2.4	320
24	Uncertainties in the global source distribution of nitrous oxide. Journal of Geophysical Research, 1995, 100, 2785.	3.3	316
25	Global nitrogen and phosphate in urban wastewater for the period 1970 to 2050. Global Biogeochemical Cycles, 2009, 23, .	4.9	289
26	Estimations of global no, emissions and their uncertainties. Atmospheric Environment, 1997, 31, 1735-1749.	4.1	285
27	Future air pollution in the Shared Socio-economic Pathways. Global Environmental Change, 2017, 42, 346-358.	7.8	277
28	Exploring changes in world ruminant production systems. Agricultural Systems, 2005, 84, 121-153.	6.1	274
29	Tropical Rain Forest Conversion to Pasture: Changes in Vegetation and Soil Properties. , 1994, 4, 363-377.		266
30	Global patterns of dissolved inorganic and particulate nitrogen inputs to coastal systems: Recent conditions and future projections. Estuaries and Coasts, 2002, 25, 640-655.	1.7	251
31	Nitrogen use in the global food system: past trends and future trajectories of agronomic performance, pollution, trade, and dietary demand. Environmental Research Letters, 2016, 11, 095007.	5.2	227
32	Estimation of global river transport of sediments and associated particulate C, N, and P. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	222
33	The Haber Boschâ€“harmful algal bloom (HBâ€“HAB) link. Environmental Research Letters, 2014, 9, 105001.	5.2	216
34	Multiple greenhouse-gas feedbacks from the land biosphere under future climate change scenarios. Nature Climate Change, 2013, 3, 666-672.	18.8	209
35	Denitrification in Agricultural Soils: Summarizing Published Data and Estimating Global Annual Rates. Nutrient Cycling in Agroecosystems, 2005, 72, 267-278.	2.2	208
36	Bottom-up uncertainty estimates of global ammonia emissions from global agricultural production systems. Atmospheric Environment, 2008, 42, 6067-6077.	4.1	205

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37	Global trends and uncertainties in terrestrial denitrification and N ₂ O emissions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130112.	4.0	205
38	Global analysis of the potential for N₂O production in natural soils. Global Biogeochemical Cycles, 1993, 7, 557-597.	4.9	195
39	Vulnerability of coastal ecosystems to changes in harmful algal bloom distribution in response to climate change: projections based on model analysis. Global Change Biology, 2014, 20, 3845-3858.	9.5	184
40	Direct nitrous oxide emissions in Mediterranean climate cropping systems: Emission factors based on a meta-analysis of available measurement data. Agriculture, Ecosystems and Environment, 2017, 238, 25-35.	5.3	178
41	Nutrient dynamics, transfer and retention along the aquatic continuum from land to ocean: towards integration of ecological and biogeochemical models. Biogeosciences, 2013, 10, 1-22.	3.3	177
42	Nitrogen oxides and tropical agriculture. Nature, 1998, 392, 866-867.	27.8	175
43	Global modeling of the fate of nitrogen from point and nonpoint sources in soils, groundwater, and surface water. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	173
44	Modeling of HABs and eutrophication: Status, advances, challenges. Journal of Marine Systems, 2010, 83, 262-275.	2.1	171
45	Lessons from temporal and spatial patterns in global use of N and P fertilizer on cropland. Scientific Reports, 2017, 7, 40366.	3.3	165
46	Sectoral emission inventories of greenhouse gases for 1990 on a per country basis as well as on 1Â°Ã—1Â°. Environmental Science and Policy, 1999, 2, 241-263.	4.9	162
47	Exploring changes in river nitrogen export to the world's oceans. Global Biogeochemical Cycles, 2005, 19, .	4.9	162
48	The role of nitrogen in world food production and environmental sustainability. Agriculture, Ecosystems and Environment, 2006, 116, 4-14.	5.3	160
49	Global N removal by freshwater aquatic systems using a spatially distributed, withinâ€basin approach. Global Biogeochemical Cycles, 2008, 22, .	4.9	152
50	Global nitrogen and phosphorus in urban waste water based on the Shared Socio-economic pathways. Journal of Environmental Management, 2019, 231, 446-456.	7.8	149
51	Exploring spatiotemporal changes of the Yangtze River (Changjiang) nitrogen and phosphorus sources, retention and export to the East China Sea and Yellow Sea. Water Research, 2018, 142, 246-255.	11.3	145
52	Pathways to achieve a set of ambitious global sustainability objectives by 2050: Explorations using the IMAGE integrated assessment model. Technological Forecasting and Social Change, 2015, 98, 303-323.	11.6	141
53	Future agricultural phosphorus demand according to the shared socioeconomic pathways. Global Environmental Change, 2018, 50, 149-163.	7.8	140
54	N:P:Si nutrient export ratios and ecological consequences in coastal seas evaluated by the ICEP approach. Global Biogeochemical Cycles, 2010, 24, .	4.9	138

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55	Increasing anthropogenic nitrogen inputs and riverine DIN exports from the Changjiang River basin under changing human pressures. Global Biogeochemical Cycles, 2010, 24, .	4.9	137
56	Exploring global nitrogen and phosphorus flows in urban wastes during the twentieth century. Global Biogeochemical Cycles, 2013, 27, 836-846.	4.9	134
57	Coupling global models for hydrology and nutrient loading to simulate nitrogen and phosphorus retention in surface water â€" description of IMAGEâ€"GNM and analysis of performance. Geoscientific Model Development, 2015, 8, 4045-4067.	3.6	124
58	Mariculture: significant and expanding cause of coastal nutrient enrichment. Environmental Research Letters, 2013, 8, 044026.	5.2	118
59	Negative global phosphorus budgets challenge sustainable intensification of grasslands. Nature Communications, 2016, 7, 10696.	12.8	117
60	A compilation of inventories of emissions to the atmosphere. Global Biogeochemical Cycles, 1993, 7, 1-26.	4.9	115
61	Influence of Cattle Wastes on Nitrous Oxide and Methane Fluxes in Pasture Land. Journal of Environmental Quality, 1996, 25, 1366-1370.	2.0	110
62	Quantification of global and national nitrogen budgets for crop production. Nature Food, 2021, 2, 529-540.	14.0	108
63	Global patterns of dissolved silica export to the coastal zone: Results from a spatially explicit global model. Global Biogeochemical Cycles, 2009, 23, .	4.9	103
64	The land-use projections and resulting emissions in the IPCC SRES scenarios scenarios as simulated by the IMAGE 2.2 model. Geo Journal, 2004, 61, 381-393.	3.1	102
65	Water and nutrient fluxes from major Mediterranean and Black Sea rivers: Past and future trends and their implications for the basinâ€scale budgets. Global Biogeochemical Cycles, 2010, 24, .	4.9	102
66	Aquaculture Production is a Large, Spatially Concentrated Source of Nutrients in Chinese Freshwater and Coastal Seas. Environmental Science & Technology, 2020, 54, 1464-1474.	10.0	102
67	Losses of Ammonia and Nitrate from Agriculture and Their Effect on Nitrogen Recovery in the European Union and the United States between 1900 and 2050. Journal of Environmental Quality, 2015, 44, 356-367.	2.0	100
68	Impact of future land use and land cover changes on atmospheric chemistryâ€climate interactions. Journal of Geophysical Research, 2010, 115, .	3.3	99
69	Comparison of land nitrogen budgets for European agriculture by various modeling approaches. Environmental Pollution, 2011, 159, 3254-3268.	7.5	99
70	Millennium Ecosystem Assessment scenario drivers (1970â€"2050): Climate and hydrological alterations. Global Biogeochemical Cycles, 2010, 24, .	4.9	98
71	Emission database for global atmospheric research (Edgar). Environmental Monitoring and Assessment, 1994, 31-31, 93-106.	2.7	93
72	Mapping contemporary global cropland and grassland distributions on a 5â€‰Ã—â€‰5 minute resolution. Journal of Land Use Science, 2007, 2, 167-190.	2.2	85

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73	Hindcasts and Future Projections of Global Inland and Coastal Nitrogen and Phosphorus Loads Due to Finfish Aquaculture. Reviews in Fisheries Science, 2013, 21, 112-156.	2.1	85
74	Agronomic aspects of wetland rice cultivation and associated methane emissions. Biogeochemistry, 1991, 15, 65.	3.5	83
75	Magnitudes and sources of dissolved inorganic phosphorus inputs to surface fresh waters and the coastal zone: A new global model. Global Biogeochemical Cycles, 2010, 24, .	4.9	83
76	Scenarios of animal waste production and fertilizer use and associated ammonia emission for the developing countries. Atmospheric Environment, 1997, 31, 4095-4102.	4.1	81
77	Phosphorus in agricultural soils: drivers of its distribution at the global scale. Global Change Biology, 2017, 23, 3418-3432.	9.5	75
78	Crop yield response to soil fertility and N, P, K inputs in different environments: Testing and improving the QUEFTS model. Field Crops Research, 2014, 157, 35-46.	5.1	74
79	Forms and subannual variability of nitrogen and phosphorus loading to global river networks over the 20th century. Global and Planetary Change, 2018, 163, 67-85.	3.5	74
80	Global Hindcasts and Future Projections of Coastal Nitrogen and Phosphorus Loads Due to Shellfish and Seaweed Aquaculture. Reviews in Fisheries Science, 2011, 19, 331-357.	2.1	71
81	Dissolved inorganic phosphorus export to the coastal zone: Results from a spatially explicit, global model. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	70
82	Computing land use emissions of greenhouse gases. Water, Air, and Soil Pollution, 1994, 76, 231-258.	2.4	68
83	Global landâ€"ocean linkage: direct inputs of nitrogen to coastal waters via submarine groundwater discharge. Environmental Research Letters, 2013, 8, 034035.	5.2	68
84	Global mapping of crop-specific emission factors highlights hotspots of nitrous oxide mitigation. Nature Food, 2021, 2, 886-893.	14.0	68
85	Putting all foods on the same table: Achieving sustainable food systems requires full accounting. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18152-18156.	7.1	66
86	Key role of China and its agriculture in global sustainable phosphorus management. Environmental Research Letters, 2014, 9, 054003.	5.2	65
87	The European Nitrogen Case. Ambio, 2002, 31, 72-78.	5.5	64
88	Global projections for anthropogenic reactive nitrogen emissions to the atmosphere: an assessment of scenarios in the scientific literature. Current Opinion in Environmental Sustainability, 2011, 3, 359-369.	6.3	63
89	Global Opportunities to Increase Agricultural Independence Through Phosphorus Recycling. Earth's Future, 2019, 7, 370-383.	6.3	62
90	Exploring river nitrogen and phosphorus loading and export to global coastal waters in the Shared Socio-economic pathways. Global Environmental Change, 2022, 72, 102426.	7.8	62

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91	Assessing future reactive nitrogen inputs into global croplands based on the shared socioeconomic pathways. Environmental Research Letters, 2018, 13, 044008.	5.2	61
92	Harmful Algal Blooms in Chinese Coastal Waters Will Persist Due to Perturbed Nutrient Ratios. Environmental Science and Technology Letters, 2021, 8, 276-284.	8.7	59
93	Key Questions and Recent Research Advances on Harmful Algal Blooms in Relation to Nutrients and Eutrophication. Ecological Studies, 2018, , 229-259.	1.2	56
94	From forest to waste: Assessment of the Brazilian soybean chain, using nitrogen as a markerâ˜†. Agriculture, Ecosystems and Environment, 2008, 128, 185-197.	5.3	55
95	Future global pig production systems according to the Shared Socioeconomic Pathways. Science of the Total Environment, 2019, 665, 739-751.	8.0	55
96	Exploring global Cryptosporidium emissions to surface water. Science of the Total Environment, 2013, 442, 10-19.	8.0	52
97	Anthropogenic nitrogen autotrophy and heterotrophy of the world's watersheds: Past, present, and future trends. Global Biogeochemical Cycles, 2010, 24, .	4.9	51
98	Analysing trade-offs between SDGs related to water quality using salinity as a marker. Current Opinion in Environmental Sustainability, 2019, 36, 96-104.	6.3	49
99	Greenhouse Gas Emissions in an Equity-, Environment- and Service-Oriented World. Technological Forecasting and Social Change, 2000, 63, 137-174.	11.6	47
100	Global use and trade of feedstuffs and consequences for the nitrogen cycle. Nutrient Cycling in Agroecosystems, 1998, 52, 261-267.	2.2	46
101	Analyzing and modelling the effect of long-term fertilizer management on crop yield and soil organic carbon in China. Science of the Total Environment, 2018, 627, 361-372.	8.0	45
102	Phosphorus for Sustainable Development Goal target of doubling smallholder productivity. Nature Sustainability, 2022, 5, 57-63.	23.7	45
103	Spatiotemporal dynamics of soil phosphorus and crop uptake in global cropland during the 20th century. Biogeosciences, 2017, 14, 2055-2068.	3.3	43
104	Modeling the global society-biosphere-climate system: Part 2: Computed scenarios. Water, Air, and Soil Pollution, 1994, 76, 37-78.	2.4	42
105	Modeling global nutrient export from watersheds. Current Opinion in Environmental Sustainability, 2012, 4, 195-202.	6.3	41
106	Modeling vegetation and carbon dynamics of managed grasslands at the global scale with LPJmL 3.6. Geoscientific Model Development, 2018, 11, 429-451.	3.6	39
107	Testing high-resolution nitrous oxide emission estimates against observations using an atmospheric transport model. Global Biogeochemical Cycles, 1996, 10, 307-318.	4.9	37
108	More efficient phosphorus use can avoid cropland expansion. Nature Food, 2021, 2, 509-518.	14.0	37

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109	Conference on soils and the greenhouse effect. Land Use Policy, 1990, 7, 184-185.	5.6	36
110	Nitrogen transport, transformation, and retention in the Three Gorges Reservoir: A mass balance approach. Limnology and Oceanography, 2017, 62, 2323-2337.	3.1	34
111	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 1970â€“2010. Earth's Future, 2020, 8, e2020EF001516.	6.3	32
112	Time to rethink trophic levels in aquaculture policy. Reviews in Aquaculture, 2021, 13, 1583-1593.	9.0	31
113	Modelling base cations in Europeâ€"sources, transport and deposition of calcium. Atmospheric Environment, 1999, 33, 2241-2256.	4.1	30
114	European-scale modelling of groundwater denitrification and associated N2O production. Environmental Pollution, 2012, 165, 67-76.	7.5	30
115	A framework for nitrogen futures in the shared socioeconomic pathways. Global Environmental Change, 2020, 61, 102029.	7.8	30
116	Global Pollution of Surface Waters from Point and Nonpoint Sources of Nitrogen. Scientific World Journal, The, 2001, 1, 632-641.	2.1	28
117	Surface N balances and reactive N loss to the environment from global intensive agricultural production systems for the period 1970â€“2030. Science in China Series C: Life Sciences, 2005, 48, 767-779.	1.3	28
118	A comparison of global spatial distributions of nitrogen inputs for nonpoint sources and effects on river nitrogen export. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	28
119	Surface N Balances in Agricultural Crop Production Systems in China for the Period 1980â€“2015. Pedosphere, 2008, 18, 304-315.	4.0	28
120	Nitrogen use and food production in European regions from a global perspective. Journal of Agricultural Science, 2014, 152, 9-19.	1.3	27
121	Distribution and budget of dissolved and biogenic silica in the Bohai Sea and Yellow Sea. Biogeochemistry, 2016, 130, 85-101.	3.5	27
122	Changing Land-, Sea-, and Airscapes: Sources of Nutrient Pollution Affecting Habitat Suitability for Harmful Algae. Ecological Studies, 2018, , 53-76.	1.2	25
123	Consequences of the cultivation of energy crops for the global nitrogen cycle. Ecological Applications, 2010, 20, 101-109.	3.8	24
124	Geographical variation in terrestrial nitrogen budgets across Europe. , 2011, , 317-344.		23
125	Exploring Spatially Explicit Changes in Carbon Budgets of Global River Basins during the 20th Century. Environmental Science & Technology, 2021, 55, 16757-16769.	10.0	21
126	Land use related sources of greenhouse gases. Land Use Policy, 1990, 7, 154-164.	5.6	20

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127	Implications of eutrophication for biogeochemical processes in the Three Gorges Reservoir, China. Regional Environmental Change, 2019, 19, 55-63.	2.9	19
128	Global implementation of two shared socioeconomic pathways for future sanitation and wastewater flows. Water Science and Technology, 2015, 71, 227-233.	2.5	18
129	Modeling phosphorus in rivers at the global scale: recent successes, remaining challenges, and near-term opportunities. Current Opinion in Environmental Sustainability, 2019, 36, 68-77.	6.3	18
130	Exploring Long-Term Changes in Silicon Biogeochemistry Along the River Continuum of the Rhine and Yangtze (Changjiang). Environmental Science & Technology, 2020, 54, 11940-11950.	10.0	18
131	Socio-environmental consideration of phosphorus flows in the urban sanitation chain of contrasting cities. Regional Environmental Change, 2018, 18, 1387-1401.	2.9	17
132	Testing hypotheses on global emissions of nitrous oxide using atmospheric models. Chemosphere, 2000, 2, 475-492.	1.2	16
133	Exploring resource efficiency for energy, land and phosphorus use: Implications for resource scarcity and the global environment. Global Environmental Change, 2016, 36, 21-34.	7.8	16
134	Integrating Life Cycle and Impact Assessments to Map Food's Cumulative Environmental Footprint. One Earth, 2020, 3, 65-78.	6.8	16
135	Modeling Processâ€Based Biogeochemical Dynamics in Surface Fresh Waters of Large Watersheds With the IMAGEâ€DGNM Framework. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001796.	3.8	16
136	Computing Land use Emissions of Greenhouse Gases. , 1994, , 231-258.		16
137	Impacts of model structure and data aggregation on European wide predictions of nitrogen and green house gas fluxes in response to changes in livestock, land cover, and land management. Journal of Integrative Environmental Sciences, 2010, 7, 145-157.	2.5	14
138	Estimating dissolved carbon concentrations in global soils: a global database and model. SN Applied Sciences, 2020, 2, 1.	2.9	14
139	Modelling soil organic matter decomposition and rainfall erosion in two tropical soils after forest clearing for permanent agriculture. Land Degradation and Development, 1989, 1, 125-140.	3.9	13
140	Preface to special section on Past and Future Trends in Nutrient Export From Global Watersheds and Impacts on Water Quality and Eutrophication. Global Biogeochemical Cycles, 2010, 24, .	4.9	13
141	Towards reliable global bottom-up estimates of temporal and spatial patterns of emissions of trace gases and aerosols from land-use related and natural sources. Developments in Atmospheric Science, 1999, 24, 3-26.	0.2	12
142	The role of nitrogen in climate change. Current Opinion in Environmental Sustainability, 2011, 3, 279-280.	6.3	12
143	Damming alters the particulate organic carbon sources, burial, export and estuarine biogeochemistry of rivers. Journal of Hydrology, 2022, 607, 127525.	5.4	12
144	Efficiency of phosphorus resource use in Africa as defined by soil chemistry and the impact on crop production. Energy Procedia, 2017, 123, 97-104.	1.8	10

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145	Storm-induced sediment resuspension in the Changjiang River Estuary leads to alleviation of phosphorus limitation. Marine Pollution Bulletin, 2020, 160, 111628.	5.0	10
146	Emission Database for Global Atmospheric Research (EDGAR). , 1994, , 93-106.		10
147	Emission database for global atmospheric research (EDGAR): Version 2.0. Studies in Environmental Science, 1995, 65, 651-659.	0.0	9
148	Soil Chemistry Aspects of Predicting Future Phosphorus Requirements in Subâ€Saharan Africa. Journal of Advances in Modeling Earth Systems, 2019, 11, 327-337.	3.8	9
149	The Mediterranean Region as a Paradigm of the Global Decoupling of N and P Between Soils and Freshwaters. Global Biogeochemical Cycles, 2021, 35, e2020GB006874.	4.9	9
150	The European nitrogen case. Ambio, 2002, 31, 72-8.	5.5	9
151	Nitrate leaching in dairy farming: economic effects of environmental restrictions. Environmental Pollution, 1998, 102, 755-761.	7.5	7
152	Land Cover Changes as a Result of Environmental Restrictions on Nitrate Leaching in Dairy Farming. Environmental Modeling and Assessment, 2001, 6, 101-109.	2.2	7
153	Chapter 2 Inputs to Climatic Change by Soil and Agriculture Related Activities. Developments in Soil Science, 1990, , 15-30.	0.5	6
154	A framework to identify appropriate spatial and temporal scales for modeling N flows from watersheds. Ecological Modelling, 2008, 212, 256-272.	2.5	6
155	Changes in the distribution and preservation of silica in the Bohai Sea due to changing terrestrial inputs. Continental Shelf Research, 2018, 166, 1-9.	1.8	6
156	World livestock and crop production systems, land use and environment between 1970 and 2030. Environment & Policy, 2006, , 75-89.	0.4	6
157	Biogenic Silica Composition and Storage in the Yellow River Delta Wetland with Implications for the Carbon Preservation. Wetlands, 2020, 40, 1085-1095.	1.5	5
158	Global air emission inventories for anthropogenic sources of NOx, NH3 and N2O in 1990. , 1998, , 135-148.		5
159	Further Evidence of the Haber-Boschâ€"Harmful Algal Bloom (HB-HAB) Link and the Risk of Suggesting HAB Control Through Phosphorus Reductions Only. , 2020, , 255-282.		5
160	Exploring oxygen dynamics and depletion in an intensive bivalve production area in the coastal sea off Rushan Bay, China. Marine Ecology - Progress Series, 2020, 649, 53-65.	1.9	4
161	Contribution of N2O to the greenhouse gas balance of first-generation biofuels. Global Change Biology, 2009, 15, 780-780.	9.5	3
162	Surface N balances and reactive N loss to the environment from global intensive agricultural production systems for the period 1970-2030. Science in China Series C: Life Sciences, 2005, 48 Spec No, 767-79.	1.3	3

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163	Overview of IMAGE 2.0: An integrated model of climate change and the global environment. Studies in Environmental Science, 1995, 65, 1395-1399.	0.0	2
164	Exploring Seasonal and Annual Nitrogen Transfer and Ecological Response in Riverâ€Coast Continuums Based on Spatially Explicit Models. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	2
165	Comment on â€œMulti-Scale Modeling of Nutrient Pollution in the Rivers of Chinaâ€. Environmental Science & Technology, 2020, 54, 2043-2045.	10.0	1
166	Assessment report on NRP subtheme â€œgGeenhouse Gasesâ€. Studies in Environmental Science, 1995, 65, 453-533.	0.0	0
167	Discussion on the NRP assessment report â€œGreenhouse Gasesâ€. Studies in Environmental Science, 1995, , 535-539.	0.0	0
168	Testing high resolution nitroux oxide emission estimates against observations using an atmospheric transport model. Studies in Environmental Science, 1995, , 613-618.	0.0	0
169	Working group report How can we best define functional types and integrate state variables and properties in time and space?. Developments in Atmospheric Science, 1999, 24, 153-167.	0.2	0
170	The contribution of N2O to the greenhouse gas balance of first-generation biofuels. Global Change Biology, 2009, 16, 2400-2400.	9.5	0
171	Modeling the Global Society-Biosphere-Climate System: Part 2: Computed Scenarios. , 1994, , 37-78.		0