Alexander F Bouwman

List of Publications by Citations

176 papers	19,360 citations	69 h-index	138 g-index
186 ext. papers	22,440 ext. citations	7.2 avg, IF	6.77 L-index

#	Paper	IF	Citations
176	Denitrification across landscapes and waterscapes: a synthesis **2006**, 16, 2064-90		1109
175	A global high-resolution emission inventory for ammonia. *Global Biogeochemical Cycles*, **1997**, 11, 561-587	5.9	812
174	A mid-term analysis of progress toward international biodiversity targets. *Science*, **2014**, 346, 241-4	33.3	774
173	The global nitrogen cycle in the twenty-first century. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20130164	5.8	727
172	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	3.3	719
171	Direct emission of nitrous oxide from agricultural soils. *Nutrient Cycling in Agroecosystems*, **1996**, 46, 53-70	3.3	592
170	Emissions of N2O and NO from fertilized fields: Summary of available measurement data. *Global Biogeochemical Cycles*, **2002**, 16, 6-1-6-13	5.9	566
169	Exploring global changes in nitrogen and phosphorus cycles in agriculture induced by livestock production over the 1900-2050 period. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 20882-7	11.5	545
168	Climate benefits of changing diet. *Climatic Change*, **2009**, 95, 83-102	4.5	532
167	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	5.9	476
166	Global river nutrient export: A scenario analysis of past and future trends. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	458
165	Modeling global annual N2O and NO emissions from fertilized fields. *Global Biogeochemical Cycles*, **2002**, 16, 28-1-28-9	5.9	436
164	Phosphorus demand for the 1970–2100 period: A scenario analysis of resource depletion. *Global Environmental Change*, **2010**, 20, 428-439	10.1	395
163	Closing the global N2O budget: A retrospective analysis 1500–1994. *Global Biogeochemical Cycles*, **1999**, 13, 1-8	5.9	361
162	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, 6348-53	11.5	357
161	Human alteration of the global nitrogen and phosphorus soil balances for the period 1970–2050. *Global Biogeochemical Cycles*, **2009**, 23, n/a-n/a	5.9	333
160	Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. *Global Environmental Change*, **2017**, 42, 237-250	10.1	326

159	Global Nutrient Export from WaterSheds 2 (NEWS 2): Model development and implementation. *Environmental Modelling and Software*, **2010**, 25, 837-853	5.2	307
158	Estimation of global NH3 volatilization loss from synthetic fertilizers and animal manure applied to arable lands and grasslands. *Global Biogeochemical Cycles*, **2002**, 16, 8-1-8-14	5.9	293
157	Global air emission inventories for anthropogenic sources of NOx, NH3 and N2O in 1990. *Environmental Pollution*, **1998**, 102, 135-148	9.3	290
156	A comprehensive quantification of global nitrous oxide sources and sinks. *Nature*, **2020**, 586, 248-256	50.4	270
155	Uncertainties in the global source distribution of nitrous oxide. *Journal of Geophysical Research*, **1995**, 100, 2785		267
154	A Global Analysis of Acidification and Eutrophication of Terrestrial Ecosystems. *Water, Air, and Soil Pollution*, **2002**, 141, 349-382	2.6	266
153	Estimations of global no, emissions and their uncertainties. *Atmospheric Environment*, **1997**, 31, 1735-1749	5.3	246
152	Exploring changes in world ruminant production systems. *Agricultural Systems*, **2005**, 84, 121-153	6.1	235
151	Global nitrogen and phosphate in urban wastewater for the period 1970 to 2050. *Global Biogeochemical Cycles*, **2009**, 23, n/a-n/a	5.9	229
150	Tropical Rain Forest Conversion to Pasture: Changes in Vegetation and Soil Properties **1994**, 4, 363-377		228
149	Global patterns of dissolved inorganic and particulate nitrogen inputs to coastal systems: Recent conditions and future projections. *Estuaries and Coasts*, **2002**, 25, 640-655		221
148	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	4.6	201
147	Estimation of global river transport of sediments and associated particulate C, N, and P. *Global Biogeochemical Cycles*, **2005**, 19, n/a-n/a	5.9	193
146	Future air pollution in the Shared Socio-economic Pathways. *Global Environmental Change*, **2017**, 42, 346-358	10.1	175
145	Global analysis of the potential for N2O production in natural soils. *Global Biogeochemical Cycles*, **1993**, 7, 557-597	5.9	174
144	Global trends and uncertainties in terrestrial denitrification and N□ emissions. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20130112	5.8	166
143	Bottom-up uncertainty estimates of global ammonia emissions from global agricultural production systems. *Atmospheric Environment*, **2008**, 42, 6067-6077	5.3	165
142	Denitrification in Agricultural Soils: Summarizing Published Data and Estimating Global Annual Rates. *Nutrient Cycling in Agroecosystems*, **2005**, 72, 267-278	3.3	163

141	Multiple greenhouse-gas feedbacks from the land biosphere under future climate change scenarios. *Nature Climate Change*, **2013**, 3, 666-672	21.4	161
140	The Haber Bosch□harmful algal bloom (HB□HAB) link. *Environmental Research Letters*, **2014**, 9, 105001	6.2	152
139	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	6.2	151
138	Sectoral emission inventories of greenhouse gases for 1990 on a per country basis as well as on 1□□. *Environmental Science and Policy*, **1999**, 2, 241-263	6.2	146
137	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	4.6	145
136	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	5.9	138
135	Exploring changes in river nitrogen export to the world's oceans. *Global Biogeochemical Cycles*, **2005**, 19,	5.9	131
134	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	5.7	129
133	Modeling of HABs and eutrophication: Status, advances, challenges. *Journal of Marine Systems*, **2010**, 83, 262-275	2.7	129
132	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, 3845-58	11.4	124
131	The role of nitrogen in world food production and environmental sustainability. *Agriculture, Ecosystems and Environment*, **2006**, 116, 4-14	5.7	121
130	N:P:Si nutrient export ratios and ecological consequences in coastal seas evaluated by the ICEP approach. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	115
129	Global N removal by freshwater aquatic systems using a spatially distributed, within-basin approach. *Global Biogeochemical Cycles*, **2008**, 22, n/a-n/a	5.9	114
128	Increasing anthropogenic nitrogen inputs and riverine DIN exports from the Changjiang River basin under changing human pressures. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	109
127	Lessons from temporal and spatial patterns in global use of N and P fertilizer on cropland. *Scientific Reports*, **2017**, 7, 40366	4.9	105
126	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	9.5	104
125	Influence of Cattle Wastes on Nitrous Oxide and Methane Fluxes in Pasture Land. *Journal of Environmental Quality*, **1996**, 25, 1366-1370	3.4	103
124	Exploring global nitrogen and phosphorus flows in urban wastes during the twentieth century. *Global Biogeochemical Cycles*, **2013**, 27, 836-846	5.9	100

123	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	2.2	95
122	A compilation of inventories of emissions to the atmosphere. *Global Biogeochemical Cycles*, **1993**, 7, 1-26	5.9	95
121	Global patterns of dissolved silica export to the coastal zone: Results from a spatially explicit global model. *Global Biogeochemical Cycles*, **2009**, 23, n/a-n/a	5.9	92
120	Impact of future land use and land cover changes on atmospheric chemistry-climate interactions. *Journal of Geophysical Research*, **2010**, 115,		90
119	Water and nutrient fluxes from major Mediterranean and Black Sea rivers: Past and future trends and their implications for the basin-scale budgets. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	84
118	Millennium Ecosystem Assessment scenario drivers (1970–2050): Climate and hydrological alterations. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	81
117	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	12.5	78
116	Comparison of land nitrogen budgets for European agriculture by various modeling approaches. *Environmental Pollution*, **2011**, 159, 3254-68	9.3	77
115	Negative global phosphorus budgets challenge sustainable intensification of grasslands. *Nature Communications*, **2016**, 7, 10696	17.4	75
114	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, 356-67	3.4	74
113	Mapping contemporary global cropland and grassland distributions on a 5 × 5 minute resolution. *Journal of Land Use Science*, **2007**, 2, 167-190	2.7	73
112	Global nitrogen and phosphorus in urban waste water based on the Shared Socio-economic pathways. *Journal of Environmental Management*, **2019**, 231, 446-456	7.9	73
111	Mariculture: significant and expanding cause of coastal nutrient enrichment. *Environmental Research Letters*, **2013**, 8, 044026	6.2	72
110	Coupling global models for hydrology and nutrient loading to simulate nitrogen and phosphorus retention in surface water – description of IMAGE–GNM and analysis of performance. *Geoscientific Model Development*, **2015**, 8, 4045-4067	6.3	71
109	Future agricultural phosphorus demand according to the shared socioeconomic pathways. *Global Environmental Change*, **2018**, 50, 149-163	10.1	69
108	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, n/a-n/a	5.9	67
107	Computing land use emissions of greenhouse gases. *Water, Air, and Soil Pollution*, **1994**, 76, 231-258	2.6	67
106	Emission database for global atmospheric research (Edgar). *Environmental Monitoring and Assessment*, **1994**, 31, 93-106	3.1	65

105	Agronomic aspects of wetland rice cultivation and associated methane emissions. *Biogeochemistry*, **1991**, 15, 65	3.8	64
104	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		62
103	Scenarios of animal waste production and fertilizer use and associated ammonia emission for the developing countries. *Atmospheric Environment*, **1997**, 31, 4095-4102	5.3	60
102	The European Nitrogen Case. *Ambio*, **2002**, 31, 72-78	6.5	60
101	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		55
100	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	7.2	52
99	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	5.5	51
98	Global land□ocean linkage: direct inputs of nitrogen to coastal waters via submarine groundwater discharge. *Environmental Research Letters*, **2013**, 8, 034035	6.2	51
97	Opinion: 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	11.5	49
96	Key role of China and its agriculture in global sustainable phosphorus management. *Environmental Research Letters*, **2014**, 9, 054003	6.2	48
95	Dissolved inorganic phosphorus export to the coastal zone: Results from a spatially explicit, global model. *Global Biogeochemical Cycles*, **2005**, 19, n/a-n/a	5.9	47
94	From forest to waste: Assessment of the Brazilian soybean chain, using nitrogen as a marker?. *Agriculture, Ecosystems and Environment*, **2008**, 128, 185-197	5.7	46
93	Anthropogenic nitrogen autotrophy and heterotrophy of the world's watersheds: Past, present, and future trends. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	45
92	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	4.2	44
91	Exploring global Cryptosporidium emissions to surface water. *Science of the Total Environment*, **2013**, 442, 10-9	10.2	40
90	Phosphorus in agricultural soils: drivers of its distribution at the global scale. *Global Change Biology*, **2017**, 23, 3418-3432	11.4	39
89	Global use and trade of feedstuffs and consequences for the nitrogen cycle. *Nutrient Cycling in Agroecosystems*, **1998**, 52, 261-267	3.3	39
88	Greenhouse Gas Emissions in an Equity-, Environment- and Service-Oriented World: An IMAGE-Based Scenario for the 21st Century. *Technological Forecasting and Social Change*, **2000**, 63, 137-174	9.5	39

87	Aquaculture Production is a Large, Spatially Concentrated Source of Nutrients in Chinese Freshwater and Coastal Seas. *Environmental Science & Technology*, **2020**, 54, 1464-1474	10.3	36
86	Global Opportunities to Increase Agricultural Independence Through Phosphorus Recycling. *Earthls Future*, **2019**, 7, 370-383	7.9	35
85	Assessing future reactive nitrogen inputs into global croplands based on the shared socioeconomic pathways. *Environmental Research Letters*, **2018**, 13, 044008	6.2	35
84	Testing high-resolution nitrous oxide emission estimates against observations using an atmospheric transport model. *Global Biogeochemical Cycles*, **1996**, 10, 307-318	5.9	35
83	Modeling the global society-biosphere-climate system: Part 2: Computed scenarios. *Water, Air, and Soil Pollution*, **1994**, 76, 37-78	2.6	34
82	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	10.2	33
81	Modeling global nutrient export from watersheds. *Current Opinion in Environmental Sustainability*, **2012**, 4, 195-202	7.2	32
80	Conference on soils and the greenhouse effect. *Land Use Policy*, **1990**, 7, 184-185	5.6	30
79	Modeling vegetation and carbon dynamics of managed grasslands at the global scale with LPJmL 3.6. *Geoscientific Model Development*, **2018**, 11, 429-451	6.3	30
78	Future global pig production systems according to the Shared Socioeconomic Pathways. *Science of the Total Environment*, **2019**, 665, 739-751	10.2	29
77	Spatiotemporal dynamics of soil phosphorus and crop uptake in global cropland during the 20th century. *Biogeosciences*, **2017**, 14, 2055-2068	4.6	29
76	Analysing trade-offs between SDGs related to water quality using salinity as a marker. *Current Opinion in Environmental Sustainability*, **2019**, 36, 96-104	7.2	29
75	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	5.9	28
74	Modelling base cations in Europe□ources, transport and deposition of calcium. *Atmospheric Environment*, **1999**, 33, 2241-2256	5.3	28
73	Nitrogen transport, transformation, and retention in the Three Gorges Reservoir: A mass balance approach. *Limnology and Oceanography*, **2017**, 62, 2323-2337	4.8	26
72	Surface N Balances in Agricultural Crop Production Systems in China for the Period 1980□2015. *Pedosphere*, **2008**, 18, 304-315	5	25
71	Key Questions and Recent Research Advances on Harmful Algal Blooms in Relation to Nutrients and Eutrophication. *Ecological Studies*, **2018**, 229-259	1.1	24
70	European-scale modelling of groundwater denitrification and associated N□ production. *Environmental Pollution*, **2012**, 165, 67-76	9.3	24

69	Nitrogen use and food production in European regions from a global perspective. *Journal of Agricultural Science*, **2014**, 152, 9-19	1	22
68	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 Suppl 2, 767-79		21
67	Consequences of the cultivation of energy crops for the global nitrogen cycle **2010**, 20, 101-9		20
66	Distribution and budget of dissolved and biogenic silica in the Bohai Sea and Yellow Sea. *Biogeochemistry*, **2016**, 130, 85-101	3.8	20
65	Quantification of global and national nitrogen budgets for crop production. *Nature Food*,	14.4	19
64	Nitrogen futures in the shared socioeconomic pathways 4. *Global Environmental Change*, **2020**, 61, 102029	10.1	18
63	Global pollution of surface waters from point and nonpoint sources of nitrogen. *Scientific World Journal, The*, **2001**, 1 Suppl 2, 632-41	2.2	17
62	Land use related sources of greenhouse gases. *Land Use Policy*, **1990**, 7, 154-164	5.6	17
61	Changing Land-, Sea-, and Airscapes: Sources of Nutrient Pollution Affecting Habitat Suitability for Harmful Algae. *Ecological Studies*, **2018**, 53-76	1.1	16
60	Global implementation of two shared socioeconomic pathways for future sanitation and wastewater flows. *Water Science and Technology*, **2015**, 71, 227-33	2.2	15
59	Geographical variation in terrestrial nitrogen budgets across Europe317-344		15
58	Harmful Algal Blooms in Chinese Coastal Waters Will Persist Due to Perturbed Nutrient Ratios. *Environmental Science and Technology Letters*, **2021**, 8, 276-284	11	15
57	Socio-environmental consideration of phosphorus flows in the urban sanitation chain of contrasting cities. *Regional Environmental Change*, **2018**, 18, 1387-1401	4.3	14
56	Testing hypotheses on global emissions of nitrous oxide using atmospheric models. *Chemosphere*, **2000**, 2, 475-492		14
55	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	4.4	13
54	Exploring resource efficiency for energy, land and phosphorus use: Implications for resource scarcity and the global environment. *Global Environmental Change*, **2016**, 36, 21-34	10.1	12
53	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	3	12
52	The role of nitrogen in climate change. *Current Opinion in Environmental Sustainability*, **2011**, 3, 279-280	7.2	11

51	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	7.2	11
50	Implications of eutrophication for biogeochemical processes in the Three Gorges Reservoir, China. *Regional Environmental Change*, **2019**, 19, 55-63	4.3	11
49	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 19702010. *Earthls Future*, **2020**, 8, e2020EF001516	7.9	10
48	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, n/a-n/a	5.9	9
47	Emission database for global atmospheric research (EDGAR): Version 2.0. *Studies in Environmental Science*, **1995**, 65, 651-659		9
46	Global riverine N and P transport to ocean increased during the twentieth century despite increased retention along the aquatic continuum		9
45	Emission Database for Global Atmospheric Research (EDGAR) **1994**, 93-106		9
44	Time to rethink trophic levels in aquaculture policy. *Reviews in Aquaculture*, **2021**, 13, 1583	8.9	9
43	Efficiency of phosphorus resource use in Africa as defined by soil chemistry and the impact on crop production. *Energy Procedia*, **2017**, 123, 97-104	2.3	7
42	Land Cover Changes as a Result of Environmental Restrictions on Nitrate Leaching in Dairy Farming. *Environmental Modeling and Assessment*, **2001**, 6, 101-109	2	7
41	Nitrate leaching in dairy farming: economic effects of environmental restrictions. *Environmental Pollution*, **1998**, 102, 755-761	9.3	6
40	Integrating Life Cycle and Impact Assessments to Map Food's Cumulative Environmental Footprint. *One Earth*, **2020**, 3, 65-78	8.1	6
39	World livestock and crop production systems, land use and environment between 1970 and 2030. *Environment & Policy*, **2006**, 75-89	0.5	6
38	The European nitrogen case. *Ambio*, **2002**, 31, 72-8	6.5	6
37	A framework to identify appropriate spatial and temporal scales for modeling N flows from watersheds. *Ecological Modelling*, **2008**, 212, 256-272	3	5
36	Modeling Process-Based Biogeochemical Dynamics in Surface Fresh Waters of Large Watersheds With the IMAGE-DGNM Framework. *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2019MS001796	7.1	5
35	More efficient phosphorus use can avoid cropland expansion. *Nature Food*,	14.4	5
34	Changes in the distribution and preservation of silica in the Bohai Sea due to changing terrestrial inputs. *Continental Shelf Research*, **2018**, 166, 1-9	2.4	4

33	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		4
32	Chapter 2 Inputs to Climatic Change by Soil and Agriculture Related Activities. *Developments in Soil Science*, **1990**, 15-30	1.3	4
31	Coupling global models for hydrology and nutrient loading to simulate nitrogen and phosphorus retention in surface water description of IMAGE-GNM and analysis of performance		4
30	Computing Land use Emissions of Greenhouse Gases **1994**, 231-258		4
29	Global air emission inventories for anthropogenic sources of NOx, NH3 and N2O in 1990 **1998**, 135-148		4
28	Exploring Long-Term Changes in Silicon Biogeochemistry Along the River Continuum of the Rhine and Yangtze (Changjiang). *Environmental Science & Technology*, **2020**, 54, 11940-11950	10.3	4
27	Soil Chemistry Aspects of Predicting Future Phosphorus Requirements in Sub-Saharan Africa. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 327-337	7.1	4
26	Contribution of N2O to the greenhouse gas balance of first-generation biofuels. *Global Change Biology*, **2009**, 15, 780-780	11.4	3
25	Exploring river nitrogen and phosphorus loading and export to global coastal waters in the Shared Socio-economic pathways. *Global Environmental Change*, **2022**, 72, 102426	10.1	3
24	Nutrient dynamics, transfer and retention along the aquatic continuum from land to ocean: towards integration of ecological and biogeochemical models		3
23	Global mapping of crop-specific emission factors highlights hotspots of nitrous oxide mitigation. *Nature Food*,	14.4	3
22	Storm-induced sediment resuspension in the Changjiang River Estuary leads to alleviation of phosphorus limitation. *Marine Pollution Bulletin*, **2020**, 160, 111628	6.7	3
21	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		3
20	Overview of IMAGE 2.0: An integrated model of climate change and the global environment. *Studies in Environmental Science*, **1995**, 65, 1395-1399		2
19	Phosphorus for Sustainable Development Goal target of doubling smallholder productivity. *Nature Sustainability*,	22.1	2
18	Exploring Spatially Explicit Changes in Carbon Budgets of Global River Basins during the 20th Century. *Environmental Science & Technology*, **2021**,	10.3	2
17	CARBON-DISC 1.0 A coupled, process-based model of global in-stream carbon biogeochemistry		2
16	Estimating dissolved carbon concentrations in global soils: a global database and model. *SN Applied Sciences*, **2020**, 2, 1	1.8	2

15	The Mediterranean Region as a Paradigm of the Global Decoupling of N and P Between Soils and Freshwaters. *Global Biogeochemical Cycles*, **2021**, 35, e2020GB006874	5.9	2
14	Comment on "Multi-Scale Modeling of Nutrient Pollution in the Rivers of China". *Environmental Science & Technology*, **2020**, 54, 2043-2045	10.3	1
13	Modeling vegetation and carbon dynamics of managed grasslands at the global scale with LPJmL 3.6 **2017**,		1
12	Exploring Seasonal and Annual Nitrogen Transfer and Ecological Response in River-Coast Continuums Based on Spatially Explicit Models. *Journal of Geophysical Research G: Biogeosciences*, **2022**, 127,	3.7	1
11	Damming alters the particulate organic carbon sources, burial, export and estuarine biogeochemistry of rivers. *Journal of Hydrology*, **2022**, 607, 127525	6	1
10	Further Evidence of the Haber-Bosch Harmful Algal Bloom (HB-HAB) Link and the Risk of Suggesting HAB Control Through Phosphorus Reductions Only **2020**, 255-282		1
9	Emissions of Nitrous Oxide (N2O) **1994**, 427-432		1
8	Biogenic Silica Composition and Storage in the Yellow River Delta Wetland with Implications for the Carbon Preservation. *Wetlands*, **2020**, 40, 1085-1095	1.7	1
7	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	2.6	0
6	The contribution of N2O to the greenhouse gas balance of first-generation biofuels. *Global Change Biology*, **2009**, 16, 2400-2400	11.4	
5	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		
4	Assessment report on NRP subtheme Geenhouse Gases Sources and sinks of CO2CH4 and N2O, databases and socio-economic causes. *Studies in Environmental Science*, **1995**, 65, 453-533		
3	Discussion on the NRP assessment report reenhouse Gases *Studies in Environmental Science*, **1995**, 535-539		
2	Testing high resolution nitroux oxide emission estimates against observations using an atmospheric transport model. *Studies in Environmental Science*, **1995**, 613-618		
1	Modeling the Global Society-Biosphere-Climate System: Part 2: Computed Scenarios **1994**, 37-78		