Alexander F Bouwman

List of Publications by Year in Descending Order

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	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
175	Damming alters the particulate organic carbon sources, burial, export and estuarine biogeochemistry of rivers. *Journal of Hydrology*, **2022**, 607, 127525	6	1
174	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
173	Exploring Spatially Explicit Changes in Carbon Budgets of Global River Basins during the 20th Century. *Environmental Science & Technology*, **2021**,	10.3	2
172	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
171	Time to rethink trophic levels in aquaculture policy. *Reviews in Aquaculture*, **2021**, 13, 1583	8.9	9
170	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
169	Nitrogen futures in the shared socioeconomic pathways 4. *Global Environmental Change*, **2020**, 61, 102029	10.1	18
168	Comment on "Multi-Scale Modeling of Nutrient Pollution in the Rivers of China". *Environmental Science & Technology*, **2020**, 54, 2043-2045	10.3	1
167	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
166	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
165	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
164	A comprehensive quantification of global nitrous oxide sources and sinks. *Nature*, **2020**, 586, 248-256	50.4	270
163	Storm-induced sediment resuspension in the Changjiang River Estuary leads to alleviation of phosphorus limitation. *Marine Pollution Bulletin*, **2020**, 160, 111628	6.7	3
162	Integrating Life Cycle and Impact Assessments to Map Food's Cumulative Environmental Footprint. *One Earth*, **2020**, 3, 65-78	8.1	6
161	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
160	Estimating dissolved carbon concentrations in global soils: a global database and model. *SN Applied Sciences*, **2020**, 2, 1	1.8	2

159	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
158	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 1970–2010. *Earthls Future*, **2020**, 8, e2020EF001516	7.9	10
157	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
156	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
155	Global Opportunities to Increase Agricultural Independence Through Phosphorus Recycling. *Earthls Future*, **2019**, 7, 370-383	7.9	35
154	Future global pig production systems according to the Shared Socioeconomic Pathways. *Science of the Total Environment*, **2019**, 665, 739-751	10.2	29
153	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
152	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
151	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
150	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
149	Implications of eutrophication for biogeochemical processes in the Three Gorges Reservoir, China. *Regional Environmental Change*, **2019**, 19, 55-63	4.3	11
148	Assessing future reactive nitrogen inputs into global croplands based on the shared socioeconomic pathways. *Environmental Research Letters*, **2018**, 13, 044008	6.2	35
147	Future agricultural phosphorus demand according to the shared socioeconomic pathways. *Global Environmental Change*, **2018**, 50, 149-163	10.1	69
146	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
145	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
144	Socio-environmental consideration of phosphorus flows in the urban sanitation chain of contrasting cities. *Regional Environmental Change*, **2018**, 18, 1387-1401	4.3	14
143	Key Questions and Recent Research Advances on Harmful Algal Blooms in Relation to Nutrients and Eutrophication. *Ecological Studies*, **2018**, 229-259	1.1	24
142	Changing Land-, Sea-, and Airscapes: Sources of Nutrient Pollution Affecting Habitat Suitability for Harmful Algae. *Ecological Studies*, **2018**, 53-76	1.1	16

141	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
140	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
139	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
138	Lessons from temporal and spatial patterns in global use of N and P fertilizer on cropland. *Scientific Reports*, **2017**, 7, 40366	4.9	105
137	Phosphorus in agricultural soils: drivers of its distribution at the global scale. *Global Change Biology*, **2017**, 23, 3418-3432	11.4	39
136	Nitrogen transport, transformation, and retention in the Three Gorges Reservoir: A mass balance approach. *Limnology and Oceanography*, **2017**, 62, 2323-2337	4.8	26
135	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
134	Modeling vegetation and carbon dynamics of managed grasslands at the global scale with LPJmL 3.6 **2017**,		1
133	Spatiotemporal dynamics of soil phosphorus and crop uptake in global cropland during the 20th century. *Biogeosciences*, **2017**, 14, 2055-2068	4.6	29
132	Future air pollution in the Shared Socio-economic Pathways. *Global Environmental Change*, **2017**, 42, 346-358	10.1	175
131	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
130	Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. *Global Environmental Change*, **2017**, 42, 237-250	10.1	326
129	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
128	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
127	Negative global phosphorus budgets challenge sustainable intensification of grasslands. *Nature Communications*, **2016**, 7, 10696	17.4	75
126	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
125	Distribution and budget of dissolved and biogenic silica in the Bohai Sea and Yellow Sea. *Biogeochemistry*, **2016**, 130, 85-101	3.8	20
124	Global implementation of two shared socioeconomic pathways for future sanitation and wastewater flows. *Water Science and Technology*, **2015**, 71, 227-33	2.2	15

123	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
122	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
121	Coupling global models for hydrology and nutrient loading to simulate nitrogen and phosphorus retention in surface water description of IMAGE CNM and analysis of performance. *Geoscientific Model Development*, **2015**, 8, 4045-4067	6.3	71
120	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
119	A mid-term analysis of progress toward international biodiversity targets. *Science*, **2014**, 346, 241-4	33.3	774
118	Key role of China and its agriculture in global sustainable phosphorus management. *Environmental Research Letters*, **2014**, 9, 054003	6.2	48
117	The Haber Bosch harmful algal bloom (HB HAB) link. *Environmental Research Letters*, **2014**, 9, 105001	6.2	152
116	Nitrogen use and food production in European regions from a global perspective. *Journal of Agricultural Science*, **2014**, 152, 9-19	1	22
115	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
114	Exploring global nitrogen and phosphorus flows in urban wastes during the twentieth century. *Global Biogeochemical Cycles*, **2013**, 27, 836-846	5.9	100
113	Exploring global Cryptosporidium emissions to surface water. *Science of the Total Environment*, **2013**, 442, 10-9	10.2	40
112	Multiple greenhouse-gas feedbacks from the land biosphere under future climate change scenarios. *Nature Climate Change*, **2013**, 3, 666-672	21.4	161
111	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
110	The global nitrogen cycle in the twenty-first century. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20130164	5.8	727
109	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
108	Mariculture: significant and expanding cause of coastal nutrient enrichment. *Environmental Research Letters*, **2013**, 8, 044026	6.2	72
107	Global land ocean linkage: direct inputs of nitrogen to coastal waters via submarine groundwater discharge. *Environmental Research Letters*, **2013**, 8, 034035	6.2	51
106	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

105	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
104	European-scale modelling of groundwater denitrification and associated N□O production. *Environmental Pollution*, **2012**, 165, 67-76	9.3	24
103	Modeling global nutrient export from watersheds. *Current Opinion in Environmental Sustainability*, **2012**, 4, 195-202	7.2	32
102	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
101	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
100	The role of nitrogen in climate change. *Current Opinion in Environmental Sustainability*, **2011**, 3, 279-280	7.2	11
99	Comparison of land nitrogen budgets for European agriculture by various modeling approaches. *Environmental Pollution*, **2011**, 159, 3254-68	9.3	77
98	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
97	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
96	Consequences of the cultivation of energy crops for the global nitrogen cycle **2010**, 20, 101-9		20
95	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
94	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
93	Impact of future land use and land cover changes on atmospheric chemistry-climate interactions. *Journal of Geophysical Research*, **2010**, 115,		90
92	Phosphorus demand for the 1970□2100 period: A scenario analysis of resource depletion. *Global Environmental Change*, **2010**, 20, 428-439	10.1	395
91	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
90	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
89	Global river nutrient export: A scenario analysis of past and future trends. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	458
88	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

87	Millennium Ecosystem Assessment scenario drivers (1970–2050): Climate and hydrological alterations. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	81
86	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
85	Modeling of HABs and eutrophication: Status, advances, challenges. *Journal of Marine Systems*, **2010**, 83, 262-275	2.7	129
84	Global Nutrient Export from WaterSheds 2 (NEWS 2): Model development and implementation. *Environmental Modelling and Software*, **2010**, 25, 837-853	5.2	307
83	Climate benefits of changing diet. *Climatic Change*, **2009**, 95, 83-102	4.5	532
82	Contribution of N2O to the greenhouse gas balance of first-generation biofuels. *Global Change Biology*, **2009**, 15, 780-780	11.4	3
81	The contribution of N2O to the greenhouse gas balance of first-generation biofuels. *Global Change Biology*, **2009**, 16, 2400-2400	11.4	
80	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
79	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
78	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
77	Bottom-up uncertainty estimates of global ammonia emissions from global agricultural production systems. *Atmospheric Environment*, **2008**, 42, 6067-6077	5.3	165
76	A framework to identify appropriate spatial and temporal scales for modeling N flows from watersheds. *Ecological Modelling*, **2008**, 212, 256-272	3	5
75	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
74	Surface N Balances in Agricultural Crop Production Systems in China for the Period 1980–2015. *Pedosphere*, **2008**, 18, 304-315	5	25
73	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
72	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
71	Denitrification across landscapes and waterscapes: a synthesis **2006**, 16, 2064-90		1109
70	The role of nitrogen in world food production and environmental sustainability. *Agriculture, Ecosystems and Environment*, **2006**, 116, 4-14	5.7	121

69	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
68	World livestock and crop production systems, land use and environment between 1970 and 2030. *Environment & Policy*, **2006**, 75-89	0.5	6
67	Exploring changes in world ruminant production systems. *Agricultural Systems*, **2005**, 84, 121-153	6.1	235
66	Exploring changes in river nitrogen export to the world's oceans. *Global Biogeochemical Cycles*, **2005**, 19,	5.9	131
65	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
64	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
63	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
62	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
61	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
60	Denitrification in Agricultural Soils: Summarizing Published Data and Estimating Global Annual Rates. *Nutrient Cycling in Agroecosystems*, **2005**, 72, 267-278	3.3	163
59	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
58	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
57	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
56	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
55	A Global Analysis of Acidification and Eutrophication of Terrestrial Ecosystems. *Water, Air, and Soil Pollution*, **2002**, 141, 349-382	2.6	266
54	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
53	The European Nitrogen Case. *Ambio*, **2002**, 31, 72-78	6.5	60
52	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

51	Modeling global annual N2O and NO emissions from fertilized fields. *Global Biogeochemical Cycles*, **2002**, 16, 28-1-28-9	5.9	436
50	The European nitrogen case. *Ambio*, **2002**, 31, 72-8	6.5	6
49	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
48	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
47	Testing hypotheses on global emissions of nitrous oxide using atmospheric models. *Chemosphere*, **2000**, 2, 475-492		14
46	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
45	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
44	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
43	Modelling base cations in Europe ources, transport and deposition of calcium. *Atmospheric Environment*, **1999**, 33, 2241-2256	5.3	28
42	Closing the global N2O budget: A retrospective analysis 1500 1994. *Global Biogeochemical Cycles*, **1999**, 13, 1-8	5.9	361
41	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		
40	Global use and trade of feedstuffs and consequences for the nitrogen cycle. *Nutrient Cycling in Agroecosystems*, **1998**, 52, 261-267	3.3	39
39	Global air emission inventories for anthropogenic sources of NOx, NH3 and N2O in 1990. *Environmental Pollution*, **1998**, 102, 135-148	9.3	290
38	Nitrate leaching in dairy farming: economic effects of environmental restrictions. *Environmental Pollution*, **1998**, 102, 755-761	9.3	6
37	Global air emission inventories for anthropogenic sources of NOx, NH3 and N2O in 1990 **1998**, 135-148		4
36	A global high-resolution emission inventory for ammonia. *Global Biogeochemical Cycles*, **1997**, 11, 561-587	5.9	812
35	Estimations of global no, emissions and their uncertainties. *Atmospheric Environment*, **1997**, 31, 1735-1749	5.3	246
34	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

33	Testing high-resolution nitrous oxide emission estimates against observations using an atmospheric transport model. *Global Biogeochemical Cycles*, **1996**, 10, 307-318	5.9	35
32	Influence of Cattle Wastes on Nitrous Oxide and Methane Fluxes in Pasture Land. *Journal of Environmental Quality*, **1996**, 25, 1366-1370	3.4	103
31	Direct emission of nitrous oxide from agricultural soils. *Nutrient Cycling in Agroecosystems*, **1996**, 46, 53-70	3.3	592
30	Uncertainties in the global source distribution of nitrous oxide. *Journal of Geophysical Research*, **1995**, 100, 2785		267
29	Overview of IMAGE 2.0: An integrated model of climate change and the global environment. *Studies in Environmental Science*, **1995**, 65, 1395-1399		2
28	Assessment report on NRP subtheme Greenhouse GasesSources and sinks of CO2CH4 and N2O, databases and socio-economic causes. *Studies in Environmental Science*, **1995**, 65, 453-533		
27	Discussion on the NRP assessment report Greenhouse Gases*Studies in Environmental Science*, **1995**, 535-539		
26	Testing high resolution nitroux oxide emission estimates against observations using an atmospheric transport model. *Studies in Environmental Science*, **1995**, 613-618		
25	Emission database for global atmospheric research (EDGAR): Version 2.0. *Studies in Environmental Science*, **1995**, 65, 651-659		9
24	Modeling the global society-biosphere-climate system: Part 2: Computed scenarios. *Water, Air, and Soil Pollution*, **1994**, 76, 37-78	2.6	34
23	Computing land use emissions of greenhouse gases. *Water, Air, and Soil Pollution*, **1994**, 76, 231-258	2.6	67
22	Emission database for global atmospheric research (Edgar). *Environmental Monitoring and Assessment*, **1994**, 31, 93-106	3.1	65
21	Tropical Rain Forest Conversion to Pasture: Changes in Vegetation and Soil Properties **1994**, 4, 363-377		228
20	Emission Database for Global Atmospheric Research (EDGAR) **1994**, 93-106		9
19	Computing Land use Emissions of Greenhouse Gases **1994**, 231-258		4
18	Emissions of Nitrous Oxide (N2O) **1994**, 427-432		1
17	Modeling the Global Society-Biosphere-Climate System: Part 2: Computed Scenarios **1994**, 37-78		
16	A compilation of inventories of emissions to the atmosphere. *Global Biogeochemical Cycles*, **1993**, 7, 1-26	5.9	95

15	Global analysis of the potential for N2O production in natural soils. *Global Biogeochemical Cycles*, **1993**, 7, 557-597	5.9	174
14	Agronomic aspects of wetland rice cultivation and associated methane emissions. *Biogeochemistry*, **1991**, 15, 65	3.8	64
13	Chapter 2 Inputs to Climatic Change by Soil and Agriculture Related Activities. *Developments in Soil Science*, **1990**, 15-30	1.3	4
12	Conference on soils and the greenhouse effect. *Land Use Policy*, **1990**, 7, 184-185	5.6	30
11	Land use related sources of greenhouse gases. *Land Use Policy*, **1990**, 7, 154-164	5.6	17
10	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
9	Geographical variation in terrestrial nitrogen budgets across Europe317-344		15
8	Phosphorus for Sustainable Development Goal target of doubling smallholder productivity. *Nature Sustainability*,	22.1	2
7	Global riverine N and P transport to ocean increased during the twentieth century despite increased retention along the aquatic continuum		9
6	Nutrient dynamics, transfer and retention along the aquatic continuum from land to ocean: towards integration of ecological and biogeochemical models		3
5	CARBON-DISC 1.0 A coupled, process-based model of global in-stream carbon biogeochemistry		2
4	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
3	Global mapping of crop-specific emission factors highlights hotspots of nitrous oxide mitigation. *Nature Food*,	14.4	3
2	Quantification of global and national nitrogen budgets for crop production. *Nature Food*,	14.4	19
1	More efficient phosphorus use can avoid cropland expansion. *Nature Food*,	14.4	5