

# Guoqian Chen

## List of Publications by Year in descending order

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242  
papers

13,222  
citations

13099

68  
h-index

37204

96  
g-index

243  
all docs

243  
docs citations

243  
times ranked

6086  
citing authors

#	ARTICLE	IF	CITATIONS
1	Greenhouse gas emissions in China 2007: Inventory and input-output analysis. <i>Energy Policy</i> , 2010, 38, 6180-6193.	8.8	274
2	Virtual water accounting for the globalized world economy: National water footprint and international virtual water trade. <i>Ecological Indicators</i> , 2013, 28, 142-149.	6.3	262
3	Global energy flows embodied in international trade: A combination of environmentally extended input-output analysis and complex network analysis. <i>Applied Energy</i> , 2018, 210, 98-107.	10.1	233
4	Economic development and coastal ecosystem change in China. <i>Scientific Reports</i> , 2014, 4, 5995.	3.3	210
5	Carbon emissions and resources use by Chinese economy 2007: A 135-sector inventory and input-output embodiment. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 3647-3732.	3.3	198
6	An overview of energy consumption of the globalized world economy. <i>Energy Policy</i> , 2011, 39, 5920-5928.	8.8	181
7	Energy analysis of Chinese agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2006, 115, 161-173.	5.3	180
8	Embodied carbon dioxide emission at supra-national scale: A coalition analysis for G7, BRIC, and the rest of the world. <i>Energy Policy</i> , 2011, 39, 2899-2909.	8.8	175
9	Energy overview for globalized world economy: Source, supply chain and sink. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 735-749.	16.4	161
10	Three-scale input-output modeling for urban economy: Carbon emission by Beijing 2007. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 2493-2506.	3.3	156
11	Ecological input-output modeling for embodied resources and emissions in Chinese economy 2005. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 1942-1965.	3.3	150
12	Prospective contributions of biomass pyrolysis to China's 2050 carbon reduction and renewable energy goals. <i>Nature Communications</i> , 2021, 12, 1698.	12.8	146
13	Solar energy evaluation for Chinese economy. <i>Energy Policy</i> , 2010, 38, 875-886.	8.8	140
14	Demand-driven energy requirement of world economy 2007: A multi-region input-output network simulation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 1757-1774.	3.3	129
15	Modified ecological footprint accounting and analysis based on embodied exergy—a case study of the Chinese society 1981–2001. <i>Ecological Economics</i> , 2007, 61, 355-376.	5.7	127
16	Low-carbon building assessment and multi-scale input-output analysis. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 583-595.	3.3	125
17	Exergy consumption of the earth. <i>Ecological Modelling</i> , 2005, 184, 363-380.	2.5	121
18	Extended-exergy analysis of the Chinese society. <i>Energy</i> , 2009, 34, 1127-1144.	8.8	120

#	ARTICLE	IF	CITATIONS
19	Rural energy in China: Pattern and policy. <i>Renewable Energy</i> , 2009, 34, 2813-2823.	8.9	119
20	Ecological footprint accounting based on emergyâ€”A case study of the Chinese society. <i>Ecological Modelling</i> , 2006, 198, 101-114.	2.5	116
21	Renewability of wind power in China: A case study of nonrenewable energy cost and greenhouse gas emission by a plant in Guangxi. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2322-2329.	16.4	116
22	Emergy evaluations for constructed wetland and conventional wastewater treatments. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 1781-1789.	3.3	114
23	Water Footprint Assessment for Wastewater Treatment: Method, Indicator, and Application. <i>Environmental Science &amp; Technology</i> , 2013, 47, 7787-7794.	10.0	113
24	Greenhouse gas emissions and natural resources use by the world economy: Ecological inputâ€”output modeling. <i>Ecological Modelling</i> , 2011, 222, 2362-2376.	2.5	112
25	Emergy account for biomass resource exploitation by agriculture in China. <i>Energy Policy</i> , 2007, 35, 4704-4719.	8.8	111
26	Methane emissions by Chinese economy: Inventory and embodiment analysis. <i>Energy Policy</i> , 2010, 38, 4304-4316.	8.8	110
27	Energy consumption and greenhouse gas emissions by buildings: A multi-scale perspective. <i>Building and Environment</i> , 2019, 151, 240-250.	6.9	106
28	Approach to transverse uniformity of concentration distribution of a solute in a solvent flowing along a straight pipe. <i>Journal of Fluid Mechanics</i> , 2014, 740, 196-213.	3.4	105
29	Emergy as embodied energy based assessment for local sustainability of a constructed wetland in Beijing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 622-635.	3.3	104
30	Decoupling analysis on energy consumption, embodied GHG emissions and economic growth â€” The case study of Macao. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 662-672.	16.4	103
31	Emergy-based ecological account for the Chinese economy in 2004. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 2337-2356.	3.3	97
32	Global supply chain of arable land use: Production-based and consumption-based trade imbalance. <i>Land Use Policy</i> , 2015, 49, 118-130.	5.6	97
33	Scarcity of exergy and ecological evaluation based on embodied exergy. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2006, 11, 531-552.	3.3	96
34	Exergy analysis for resource conversion of the Chinese Society 1993 under the material product system. <i>Energy</i> , 2006, 31, 1115-1150.	8.8	96
35	Natural gas overview for world economy: From primary supply to final demand via global supply chains. <i>Energy Policy</i> , 2019, 124, 215-225.	8.8	96
36	A vertical subsurface-flow constructed wetland in Beijing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 1986-1997.	3.3	93

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37	Global land-water nexus: Agricultural land and freshwater use embodied in worldwide supply chains. <i>Science of the Total Environment</i> , 2018, 613-614, 931-943.	8.0	93
38	Emergy analysis of energy utilization in the transportation sector in China. <i>Energy Policy</i> , 2006, 34, 1709-1719.	8.8	92
39	Estimation of methane and nitrous oxide emission from livestock and poultry in China during 1949-2003. <i>Energy Policy</i> , 2007, 35, 3759-3767.	8.8	91
40	Virtual land use change in China 2002-2010: Internal transition and trade imbalance. <i>Land Use Policy</i> , 2015, 47, 55-65.	5.6	91
41	Interaction of magnetic field in flow of Maxwell nanofluid with convective effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 389, 48-55.	2.3	91
42	Emergy analysis of cropping-grazing system in Inner Mongolia Autonomous Region, China. <i>Energy Policy</i> , 2007, 35, 3843-3855.	8.8	90
43	Low-carbon assessment for ecological wastewater treatment by a constructed wetland in Beijing. <i>Ecological Engineering</i> , 2011, 37, 622-628.	3.6	90
44	Worldwide energy use across global supply chains: Decoupled from economic growth?. <i>Applied Energy</i> , 2019, 250, 1235-1245.	10.1	89
45	Coal use embodied in globalized world economy: From source to sink through supply chain. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 978-993.	16.4	87
46	Consumption-based greenhouse gas emissions accounting with capital stock change highlights dynamics of fast-developing countries. <i>Nature Communications</i> , 2018, 9, 3581.	12.8	87
47	Ecological footprint accounting for energy and resource in China. <i>Energy Policy</i> , 2007, 35, 1599-1609.	8.8	86
48	Nonrenewable energy cost and greenhouse gas emissions of a 1.5MW solar power tower plant in China. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1961-1967.	16.4	86
49	Embodied energy consumption of building construction engineering: Case study in E-town, Beijing. <i>Energy and Buildings</i> , 2013, 64, 62-72.	6.7	86
50	Environmental sustainability of wind power: An emergy analysis of a Chinese wind farm. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 229-239.	16.4	86
51	Optimal embodied energy abatement strategy for Beijing economy: Based on a three-scale input-output analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1602-1610.	16.4	84
52	Water resources planning based on complex system dynamics: A case study of Tianjin city. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 2328-2336.	3.3	83
53	Energy use by Chinese economy: A systems cross-scale input-output analysis. <i>Energy Policy</i> , 2017, 108, 81-90.	8.8	83
54	Emergy-based resource accounting for China. <i>Ecological Modelling</i> , 2006, 196, 313-328.	2.5	81

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55	Exergetic evaluation of corn-ethanol production in China. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2450-2461.	3.3	80
56	An overview of arable land use for the world economy: From source to sink via the global supply chain. <i>Land Use Policy</i> , 2018, 76, 201-214.	5.6	80
57	Energy cost of rapeseed-based biodiesel as alternative energy in China. <i>Renewable Energy</i> , 2011, 36, 1374-1378.	8.9	79
58	Systems accounting for energy consumption and carbon emission by building. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 1859-1873.	3.3	79
59	Environmental flow requirements for integrated water resources allocation in the Yellow River Basin, China. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2469-2481.	3.3	76
60	Energy-based energy and material metabolism of the Yellow River basin. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 923-934.	3.3	76
61	Global primary energy use associated with production, consumption and international trade. <i>Energy Policy</i> , 2017, 111, 85-94.	8.8	76
62	Tracking mercury emission flows in the global supply chains: A multi-regional input-output analysis. <i>Journal of Cleaner Production</i> , 2017, 140, 1470-1492.	9.3	76
63	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€”Part 1: Fossil fuels and energy minerals. <i>Energy Policy</i> , 2007, 35, 2038-2050.	8.8	75
64	Ecological degradation and hydraulic dispersion of contaminant in wetland. <i>Ecological Modelling</i> , 2011, 222, 293-300.	2.5	75
65	Environmental dispersion in wetland flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 206-215.	3.3	72
66	Multi-scale analysis for environmental dispersion in wetland flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 3168-3178.	3.3	72
67	Systems account of societal exergy utilization: China 2003. <i>Ecological Modelling</i> , 2007, 208, 102-118.	2.5	71
68	Net ecosystem services value of wetland: Environmental economic account. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2837-2843.	3.3	71
69	Energy analysis for â€“Four in Oneâ€” peach production system in Beijing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 946-958.	3.3	69
70	An ecological risk assessment model for a pulsed contaminant emission into a wetland channel flow. <i>Ecological Modelling</i> , 2010, 221, 2927-2937.	2.5	69
71	Comparison of typical mega cities in China using exergy synthesis. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2827-2836.	3.3	68
72	Energy and greenhouse gas emissions review for Macao. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 22, 23-32.	16.4	68

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73	Carbon emissions from fossil fuel consumption of Beijing in 2012. <i>Environmental Research Letters</i> , 2016, 11, 114028.	5.2	68
74	Carbon network embodied in international trade: Global structural evolution and its policy implications. <i>Energy Policy</i> , 2020, 139, 111316.	8.8	68
75	Physical sustainability assessment for the China society: Exergy-based systems account for resources use and environmental emissions. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1527-1545.	16.4	67
76	Embodied greenhouse gas emission by Macao. <i>Energy Policy</i> , 2013, 59, 819-833.	8.8	67
77	Global overview for energy use of the world economy: Household-consumption-based accounting based on the world input-output database (WIOD). <i>Energy Economics</i> , 2019, 81, 835-847.	12.1	67
78	Energy and water nexus in power generation: The surprisingly high amount of industrial water use induced by solar power infrastructure in China. <i>Applied Energy</i> , 2017, 195, 125-136.	10.1	66
79	Embodied energy assessment for ecological wastewater treatment by a constructed wetland. <i>Ecological Modelling</i> , 2013, 252, 63-71.	2.5	65
80	Global water transfers embodied in international trade: Tracking imbalanced and inefficient flows. <i>Journal of Cleaner Production</i> , 2018, 184, 50-64.	9.3	65
81	Ecological evaluation of Beijing economy based on exergy indices. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2482-2494.	3.3	64
82	An overview of mercury emissions by global fuel combustion: The impact of international trade. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 345-355.	16.4	64
83	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€”Part 2: Renewable energy sources and forest. <i>Energy Policy</i> , 2007, 35, 2051-2064.	8.8	62
84	Energy security, efficiency and carbon emission of Chinese industry. <i>Energy Policy</i> , 2011, 39, 3520-3528.	8.8	62
85	Carbon emissions embodied in the global supply chain: Intermediate and final trade imbalances. <i>Science of the Total Environment</i> , 2020, 707, 134670.	8.0	61
86	Exergy-based assessment for waste gas emissions from Chinese transportation. <i>Energy Policy</i> , 2009, 37, 2231-2240.	8.8	60
87	China's energy-related mercury emissions: Characteristics, impact of trade and mitigation policies. <i>Journal of Cleaner Production</i> , 2017, 141, 1259-1266.	9.3	60
88	Global socio-hydrology: An overview of virtual water use by the world economy from source of exploitation to sink of final consumption. <i>Journal of Hydrology</i> , 2019, 573, 794-810.	5.4	60
89	Embodied energy analysis for coal-based power generation system-highlighting the role of indirect energy cost. <i>Applied Energy</i> , 2016, 184, 936-950.	10.1	59
90	Methane emissions of energy activities in China 1980â€“2007. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 11-21.	16.4	58

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91	Is solar power renewable and carbon-neutral: Evidence from a pilot solar tower plant in China under a systems view. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110655.	16.4	58
92	Global network of embodied water flow by systems input-output simulation. <i>Frontiers of Earth Science</i> , 2012, 6, 331-344.	2.1	57
93	Mercury emissions by Beijing's fossil energy consumption: Based on environmentally extended input-output analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 1167-1175.	16.4	57
94	Multi-scale input-output analysis of consumption-based water resources: Method and application. <i>Journal of Cleaner Production</i> , 2017, 164, 338-346.	9.3	57
95	Progress and prospect of CCS in China: Using learning curve to assess the cost-viability of a 2Å—600 MW retrofitted oxyfuel power plant as a case study. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 1274-1285.	16.4	56
96	Analytical solution for scalar transport in open channel flow: Slow-decaying transient effect. <i>Journal of Hydrology</i> , 2014, 519, 1974-1984.	5.4	55
97	Global overview of crude oil use: From source to sink through inter-regional trade. <i>Energy Policy</i> , 2019, 128, 476-486.	8.8	55
98	Greenhouse gas emissions of corn ethanol production in China. <i>Ecological Modelling</i> , 2013, 252, 176-184.	2.5	54
99	Ecological accounting for an integrated "biogas" fish system based on emergent indicators. <i>Ecological Indicators</i> , 2014, 47, 189-197.	6.3	54
100	Global arable land transfers embodied in Mainland China's foreign trade. <i>Land Use Policy</i> , 2018, 70, 521-534.	5.6	54
101	Environmental dispersion in a two-zone wetland. <i>Ecological Modelling</i> , 2011, 222, 456-474.	2.5	53
102	Embodied energy assessment for Macao's external trade. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 34, 642-653.	16.4	53
103	Methane emissions in China 2007. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 30, 886-902.	16.4	53
104	Embodied water for urban economy: A three-scale input-output analysis for Beijing 2010. <i>Ecological Modelling</i> , 2015, 318, 19-25.	2.5	53
105	Environmental dispersion in a tidal flow through a depth-dominated wetland. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 5007-5025.	3.3	52
106	Environmental dispersion in a two-layer wetland: Analytical solution by method of concentration moments. <i>International Journal of Engineering Science</i> , 2012, 51, 272-291.	5.0	52
107	GHG emissions embodied in Macao's internal energy consumption and external trade: Driving forces via decomposition analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 4100-4106.	16.4	52
108	Nonrenewable energy cost of corn-ethanol in China. <i>Energy Policy</i> , 2012, 41, 340-347.	8.8	51

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109	Resource analysis of the Chinese society 1980â€“2002 based on energyâ€™Part 5: Resource structure and intensity. <i>Energy Policy</i> , 2007, 35, 2087-2095.	8.8	49
110	Environmental dispersion in a three-layer wetland flow with free-surface. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 3382-3406.	3.3	49
111	Exergetic assessment for ecological economic system: Chinese agriculture. <i>Ecological Modelling</i> , 2009, 220, 397-410.	2.5	48
112	Cosmic energy based ecological systems modelling. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 2672-2700.	3.3	48
113	Virtual water accounting for building: case study for E-town, Beijing. <i>Journal of Cleaner Production</i> , 2014, 68, 7-15.	9.3	48
114	Basic characteristics of Taylor dispersion in a laminar tube flow with wall absorption: Exchange rate, advection velocity, dispersivity, skewness and kurtosis in their full time dependance. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 844-852.	4.8	48
115	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€™Part 3: Agricultural products. <i>Energy Policy</i> , 2007, 35, 2065-2078.	8.8	47
116	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€™Part 4: Fishery and rangeland. <i>Energy Policy</i> , 2007, 35, 2079-2086.	8.8	47
117	Contaminant transport in wetland flows with bulk degradation and bed absorption. <i>Journal of Hydrology</i> , 2017, 552, 674-683.	5.4	47
118	Ultra-high voltage network induced energy cost and carbon emissions. <i>Journal of Cleaner Production</i> , 2018, 178, 276-292.	9.3	47
119	Sustainability of wheat and maize production in the warm climate of southwestern Iran: An emergy analysis. <i>Journal of Cleaner Production</i> , 2018, 172, 2246-2255.	9.3	47
120	Solute dispersion in open channel flow with bed absorption. <i>Journal of Hydrology</i> , 2016, 543, 208-217.	5.4	46
121	Measurement and evaluation of the metabolic capacity of an urban ecosystem. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 1758-1765.	3.3	45
122	China's CH <sub>4</sub> and CO <sub>2</sub> emissions: Bottom-up estimation and comparative analysis. <i>Ecological Indicators</i> , 2014, 47, 112-122.	6.3	43
123	Renewability and sustainability of biogas system: Cosmic exergy based assessment for a case in China. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1509-1524.	16.4	43
124	Sustainability of a typical biogas system in China: Emergy-based ecological footprint assessment. <i>Ecological Informatics</i> , 2015, 26, 78-84.	5.2	43
125	The striking amount of carbon emissions by the construction stage of coal-fired power generation system in China. <i>Energy Policy</i> , 2018, 117, 358-369.	8.8	42
126	Energy use in world economy from household-consumption-based perspective. <i>Energy Policy</i> , 2019, 127, 287-298.	8.8	42



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127	Chemical exergy based evaluation of water quality. <i>Ecological Modelling</i> , 2007, 200, 259-268.	2.5	41
128	Urban dynamics and multiple-objective programming: A case study of Beijing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 1998-2017.	3.3	40
129	High-resolution survey of tidal energy towards power generation and influence of sea-level-rise: A case study at coast of New Jersey, USA. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 32, 960-982.	16.4	40
130	Structure decomposition analysis for energy-related GHG emission in Beijing: Urban metabolism and hierarchical structure. <i>Ecological Informatics</i> , 2015, 26, 60-69.	5.2	40
131	Urban economy's carbon flow through external trade: Spatial-temporal evolution for Macao. <i>Energy Policy</i> , 2017, 110, 69-78.	8.8	40
132	Energy use by globalized economy: Total-consumption-based perspective via multi-region input-output accounting. <i>Science of the Total Environment</i> , 2019, 662, 65-76.	8.0	40
133	Cosmic exergy based ecological assessment for a wetland in Beijing. <i>Ecological Modelling</i> , 2011, 222, 322-329.	2.5	39
134	Peristaltic Motion of a non-Newtonian Nanofluid in an Asymmetric Channel. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014, 69, 451-461.	1.5	39
135	Virtual water accounting for a building construction engineering project with nine sub-projects: a case in E-town, Beijing. <i>Journal of Cleaner Production</i> , 2016, 112, 4691-4700.	9.3	39
136	Global water transfers embodied in Mainland China's foreign trade: Production- and consumption-based perspectives. <i>Journal of Cleaner Production</i> , 2017, 161, 188-199.	9.3	39
137	Exergy based ecological footprint accounting for China. <i>Ecological Modelling</i> , 2013, 252, 83-96.	2.5	38
138	Energy and carbon emission review for Macao's gaming industry. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 744-753.	16.4	38
139	Renewability assessment of a production system: Based on embodied energy as emergy. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 380-392.	16.4	38
140	Unified account of gas pollutants and greenhouse gas emissions: Chinese transportation 1978-2004. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 2710-2722.	3.3	37
141	Water footprint assessment for service sector: A case study of gaming industry in water scarce Macao. <i>Ecological Indicators</i> , 2014, 47, 164-170.	6.3	37
142	Land use balance for urban economy: A multi-scale and multi-type perspective. <i>Land Use Policy</i> , 2019, 83, 323-333.	5.6	36
143	Global water use associated with energy supply, demand and international trade of China. <i>Applied Energy</i> , 2020, 257, 113992.	10.1	36
144	A Perturbational h4 Exponential Finite Difference Scheme for the Convective Diffusion Equation. <i>Journal of Computational Physics</i> , 1993, 104, 129-139.	3.8	35

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145	Temporal and spatial variations of energy consumption in rural China. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 4022-4031.	3.3	35
146	Taylor dispersion in a two-zone packed tube. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 43-52.	4.8	34
147	Virtual water assessment for Macao, China: highlighting the role of external trade. <i>Journal of Cleaner Production</i> , 2015, 93, 308-317.	9.3	34
148	Transverse concentration distribution in Taylor dispersion: Gill's method of series expansion supported by concentration moments. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 131-141.	4.8	34
149	Dispersion of active particles in confined unidirectional flows. <i>Journal of Fluid Mechanics</i> , 2019, 877, 1-34.	3.4	34
150	Environmental dispersion in a tidal wetland with sorption by vegetation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 348-366.	3.3	33
151	Solution of Gill's generalized dispersion model: Solute transport in Poiseuille flow with wall absorption. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 34-43.	4.8	33
152	Exergy as a unified measure of water quality. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007, 12, 663-672.	3.3	32
153	Notes on modelling of environmental transport in wetland. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 1334-1345.	3.3	32
154	Mitigation potential of global ammonia emissions and related health impacts in the trade network. <i>Nature Communications</i> , 2021, 12, 6308.	12.8	32
155	The water resources assessment based on resource exergy for the mainstream Yellow River. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 331-344.	3.3	31
156	Taylor dispersion in a packed tube. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2215-2221.	3.3	31
157	An extended overview of natural gas use embodied in world economy and supply chains: Policy implications from a time series analysis. <i>Energy Policy</i> , 2020, 137, 111068.	8.8	31
158	Systems ecological accounting for wastewater treatment engineering: Method, indicator and application. <i>Ecological Indicators</i> , 2014, 47, 32-42.	6.3	30
159	The impact of trade on fuel-related mercury emissions in Beijing—evidence from three-scale input-output analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 742-752.	16.4	30
160	Water footprint of thermal power in China: Implications from the high amount of industrial water use by plant infrastructure of coal-fired generation system. <i>Energy Policy</i> , 2019, 132, 452-461.	8.8	30
161	GIS-based optimization for the locations of sewage treatment plants and sewage outfalls—A case study of Nansha District in Guangzhou City, China. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 1746-1757.	3.3	28
162	Flow distribution and environmental dispersivity in a tidal wetland channel of rectangular cross-section. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4192-4209.	3.3	28

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