Guoqian Chen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7742691/publications.pdf

Version: 2024-02-01

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	Solute dispersion in an open channel turbulent flow: Solution by a generalized model. Journal of Hydrology, 2022, 604, 127239.	5.4	7
2	Cross-channel distribution and streamwise dispersion of micro-swimmers in a vertical channel flow: A study on the effects of shear, particle shape, and convective inertial torque. Physics of Fluids, 2022, 34, 011904.	4.0	5
3	Effect of ring-source release on dispersion process in Poiseuille flow with wall absorption. Physics of Fluids, 2022, 34, .	4.0	11
4	Gyrotactic trapping of micro-swimmers in simple shear flows: a study directly from the fundamental Smoluchowski equation. Journal of Fluid Mechanics, 2022, 939, .	3.4	10
5	Solute Dispersion From a Continuous Release Source in a Vegetated Flow: An Analytical Study. Water Resources Research, 2022, 58, .	4.2	9
6	Assessment of concentrated solar power generation potential in China based on Geographic Information System (GIS). Applied Energy, 2022, 315, 119045.	10.1	24
7	Tracing energy-water-greenhouse gas nexus in national supply chains: China 2017. Journal of Cleaner Production, 2022, 352, 131586.	9.3	3
8	Energy-water nexus in seawater desalination project: A typical water production system in China. Journal of Cleaner Production, 2021, 279, 123412.	9.3	28
9	Unveiling land footprint of solar power: A pilot solar tower project in China. Journal of Environmental Management, 2021, 280, 111741.	7.8	8
10	Is solar power renewable and carbon-neutral: Evidence from a pilot solar tower plant in China under a systems view. Renewable and Sustainable Energy Reviews, 2021, 138, 110655.	16.4	58
11	Prospective contributions of biomass pyrolysis to Chinaâ€™s 2050 carbon reduction and renewable energy goals. Nature Communications, 2021, 12, 1698.	12.8	146
12	Chinaâ€™s forest land use change in the globalized world economy: Foreign trade and unequal household consumption. Land Use Policy, 2021, 103, 105324.	5.6	14
13	Can constructed wetlands be more land efficient than centralized wastewater treatment systems? A case study based on direct and indirect land use. Science of the Total Environment, 2021, 770, 144841.	8.0	11
14	Vertical distribution and longitudinal dispersion of gyrotactic microorganisms in a horizontal plane Poiseuille flow. Physical Review Fluids, 2021, 6, .	2.5	10
15	Extended carbon footprint and emission transfer of world regions: With both primary and intermediate inputs into account. Science of the Total Environment, 2021, 775, 145578.	8.0	25
16	Multi criteria analysis ranking of solar photovoltaic modules manufacturing countries by an importing country: A case of Uganda. Solar Energy, 2021, 223, 326-345.	6.1	10
17	Transient dispersion process of active particles. Journal of Fluid Mechanics, 2021, 927, .	3.4	17
18	Pastureland use of China: Accounting variations from different input-output analyses. Land Use Policy, 2021, 109, 105597.	5.6	3

#	Article	IF	Citations
19	Energy use flows in the supply chains of the world economy: A full account of both primary and intermediate inputs. Journal of Cleaner Production, 2021, 320, 128621.	9.3	6
20	The global oil supply chain: The essential role of non-oil product as revealed by a comparison between physical and virtual oil trade patterns. Resources, Conservation and Recycling, 2021, 175, 105836.	10.8	10
21	Mitigation potential of global ammonia emissions and related health impacts in the trade network. Nature Communications, 2021, 12, 6308.	12.8	32
22	An extended overview of natural gas use embodied in world economy and supply chains: Policy implications from a time series analysis. Energy Policy, 2020, 137, 111068.	8.8	31
23	Global water use associated with energy supply, demand and international trade of China. Applied Energy, 2020, 257, 113992.	10.1	36
24	Carbon emissions embodied in the global supply chain: Intermediate and final trade imbalances. Science of the Total Environment, 2020, 707, 134670.	8.0	61
25	Energy perspective of Sino-US trade imbalance in global supply chains. Energy Economics, 2020, 92, 104959.	12.1	20
26	Globalized energy-water nexus through international trade: The dominant role of non-energy commodities for worldwide energy-related water use. Science of the Total Environment, 2020, 736, 139582.	8.0	13
27	A unified ecological assessment of a solar concentrating plant based on an integrated approach joining cosmic exergy analysis with ecological indicators. Renewable and Sustainable Energy Reviews, 2020, 129, 109934.	16.4	6
28	Carbon network embodied in international trade: Global structural evolution and its policy implications. Energy Policy, 2020, 139, 111316.	8.8	68
29	Dispersion of gyrotactic micro-organisms in pipe flows. Journal of Fluid Mechanics, 2020, 889, .	3.4	24
30	Transient Solute Dispersion in Wetland Flows With Submerged Vegetation: An Analytical Study in Terms of Timeâ€Dependent Properties. Water Resources Research, 2020, 56, e2019WR025586.	4.2	17
31	An embodied energy perspective of urban economy: A three-scale analysis for Beijing 2002â€“2012 with headquarter effect. Science of the Total Environment, 2020, 732, 139097.	8.0	16
32	Environmental impacts of rice production analyzed via social capital development: An Iranian case study with a life cycle assessment/data envelopment analysis approach. Ecological Indicators, 2019, 105, 675-687.	6.3	12
33	Dispersion of active particles in confined unidirectional flows. Journal of Fluid Mechanics, 2019, 877, 1-34.	3.4	34
34	Multi-scale water use balance for a typical coastal city in China. Journal of Cleaner Production, 2019, 236, 117505.	9.3	15
35	Effect of bed absorption on contaminant transport in wetland channel with rectangular cross-section. Journal of Hydrology, 2019, 578, 124078.	5.4	14
36	Global overview of crude oil use: From source to sink through inter-regional trade. Energy Policy, 2019, 128, 476-486.	8.8	55

#	Article	IF	Citations
37	Energy use by globalized economy: Total-consumption-based perspective via multi-region input-output accounting. Science of the Total Environment, 2019, 662, 65-76.	8.0	40
38	Energy consumption and greenhouse gas emissions by buildings: A multi-scale perspective. Building and Environment, 2019, 151, 240-250.	6.9	106
39	Global overview for energy use of the world economy: Household-consumption-based accounting based on the world input-output database (WIOD). Energy Economics, 2019, 81, 835-847.	12.1	67
40	Water footprint of thermal power in China: Implications from the high amount of industrial water use by plant infrastructure of coal-fired generation system. Energy Policy, 2019, 132, 452-461.	8.8	30
41	Worldwide energy use across global supply chains: Decoupled from economic growth?. Applied Energy, 2019, 250, 1235-1245.	10.1	89
42	Solute transport in two-zone packed tube flow: Long-time asymptotic expansion. Physics of Fluids, 2019, 31, .	4.0	16
43	Global socio-hydrology: An overview of virtual water use by the world economy from source of exploitation to sink of final consumption. Journal of Hydrology, 2019, 573, 794-810.	5.4	60
44	Land use balance for urban economy: A multi-scale and multi-type perspective. Land Use Policy, 2019, 83, 323-333.	5.6	36
45	Environmental dispersion in layered wetland: Moment based asymptotic analysis. Journal of Hydrology, 2019, 569, 252-264.	5.4	20
46	Energy use in world economy from household-consumption-based perspective. Energy Policy, 2019, 127, 287-298.	8.8	42
47	Natural gas overview for world economy: From primary supply to final demand via global supply chains. Energy Policy, 2019, 124, 215-225.	8.8	96
48	Freshwater costs of seawater desalination: Systems process analysis for the case plant in China. Journal of Cleaner Production, 2019, 212, 677-686.	9.3	20
49	Global water transfers embodied in international trade: Tracking imbalanced and inefficient flows. Journal of Cleaner Production, 2018, 184, 50-64.	9.3	65
50	The striking amount of carbon emissions by the construction stage of coal-fired power generation system in China. Energy Policy, 2018, 117, 358-369.	8.8	42
51	Contaminant transport from point source on water surface in open channel flow with bed absorption. Journal of Hydrology, 2018, 561, 295-303.	5.4	22
52	Ultra-high voltage network induced energy cost and carbon emissions. Journal of Cleaner Production, 2018, 178, 276-292.	9.3	47
53	Global land-water nexus: Agricultural land and freshwater use embodied in worldwide supply chains. Science of the Total Environment, 2018, 613-614, 931-943.	8.0	93
54	Coal use embodied in globalized world economy: From source to sink through supply chain. Renewable and Sustainable Energy Reviews, 2018, 81, 978-993.	16.4	87

#	Article	IF	Citations
55	Sustainability of wheat and maize production in the warm climate of southwestern Iran: An emergy analysis. Journal of Cleaner Production, 2018, 172, 2246-2255.	9.3	47
56	Global energy flows embodied in international trade: A combination of environmentally extended inputâ€“output analysis and complex network analysis. Applied Energy, 2018, 210, 98-107.	10.1	233
57	GHG emissions embodied in Macao's internal energy consumption and external trade: Driving forces via decomposition analysis. Renewable and Sustainable Energy Reviews, 2018, 82, 4100-4106.	16.4	52
58	Global arable land transfers embodied in Mainland Chinaâ€™s foreign trade. Land Use Policy, 2018, 70, 521-534.	5.6	54
59	Consumption-based greenhouse gas emissions accounting with capital stock change highlights dynamics of fast-developing countries. Nature Communications, 2018, 9, 3581.	12.8	87
60	An overview of arable land use for the world economy: From source to sink via the global supply chain. Land Use Policy, 2018, 76, 201-214.	5.6	80
61	Solution of Gillâ€™s generalized dispersion model: Solute transport in Poiseuille flow with wall absorption. International Journal of Heat and Mass Transfer, 2018, 127, 34-43.	4.8	33
62	Concentration moments based analytical study on Taylor dispersion: Open channel flow driven by gravity and wind. Journal of Hydrology, 2018, 562, 244-253.	5.4	14
63	Environmental transport in wetland channel with rectangular cross-section: Analytical solution by Chatwinâ€™s asymptotic expansion. Journal of Hydrology, 2018, 565, 224-236.	5.4	11
64	Multi-scale input-output analysis of consumption-based water resources: Method and application. Journal of Cleaner Production, 2017, 164, 338-346.	9.3	57
65	Global water transfers embodied in Mainland Chinaâ€™s foreign trade: Production- and consumption-based perspectives. Journal of Cleaner Production, 2017, 161, 188-199.	9.3	39
66	Energy use by Chinese economy: A systems cross-scale input-output analysis. Energy Policy, 2017, 108, 81-90.	8.8	83
67	Concentration distribution of environmental dispersion in a wetland flow: Extended solution. Journal of Hydrology, 2017, 549, 340-350.	5.4	28
68	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. International Journal of Heat and Mass Transfer, 2017, 109, 844-852.	4.8	48
69	Energy and water nexus in power generation: The surprisingly high amount of industrial water use induced by solar power infrastructure in China. Applied Energy, 2017, 195, 125-136.	10.1	66
70	Energy overview for globalized world economy: Source, supply chain and sink. Renewable and Sustainable Energy Reviews, 2017, 69, 735-749.	16.4	161
71	Taylor dispersion in wind-driven current. Journal of Hydrology, 2017, 555, 697-707.	5.4	12
72	Global primary energy use associated with production, consumption and international trade. Energy Policy, 2017, 111, 85-94.	8.8	76

#	Article	IF	Citations
73	Urban economy's carbon flow through external trade: Spatial-temporal evolution for Macao. Energy Policy, 2017, 110, 69-78.	8.8	40
74	Contaminant transport in wetland flows with bulk degradation and bed absorption. Journal of Hydrology, 2017, 552, 674-683.	5.4	47
75	Decoupling analysis on energy consumption, embodied GHG emissions and economic growth â€" The case study of Macao. Renewable and Sustainable Energy Reviews, 2017, 67, 662-672.	16.4	103
76	China's energy-related mercury emissions: Characteristics, impact of trade and mitigation policies. Journal of Cleaner Production, 2017, 141, 1259-1266.	9.3	60
77	Tracking mercury emission flows in the global supply chains: A multi-regional input-output analysis. Journal of Cleaner Production, 2017, 140, 1470-1492.	9.3	76
78	The impact of trade on fuel-related mercury emissions in Beijingâ€"evidence from three-scale input-output analysis. Renewable and Sustainable Energy Reviews, 2017, 75, 742-752.	16.4	30
79	Concentration distribution for pollutant dispersion in a reversal laminar flow. Journal of Hydrology, 2017, 551, 151-161.	5.4	21
80	Mercury emissions embodied in Beijing economy. Journal of Cleaner Production, 2016, 129, 134-142.	9.3	18
81	Embodied energy analysis for coal-based power generation system-highlighting the role of indirect energy cost. Applied Energy, 2016, 184, 936-950.	10.1	59
82	Progress and prospect of CCS in China: Using learning curve to assess the cost-viability of a 2Ã—600 MW retrofitted oxyfuel power plant as a case study. Renewable and Sustainable Energy Reviews, 2016, 60, 1274-1285.	16.4	56
83	An overview of mercury emissions by global fuel combustion: The impact of international trade. Renewable and Sustainable Energy Reviews, 2016, 65, 345-355.	16.4	64
84	Solute dispersion in open channel flow with bed absorption. Journal of Hydrology, 2016, 543, 208-217.	5.4	46
85	Carbon emissions from fossil fuel consumption of Beijing in 2012. Environmental Research Letters, 2016, 11, 114028.	5.2	68
86	Hydraulic dispersion of diurnal reactive constituents in an open channel eutrophic flow. Journal of Hydrology, 2016, 537, 200-207.	5.4	15
87	Renewability assessment of a production system: Based on embodied energy as emergy. Renewable and Sustainable Energy Reviews, 2016, 57, 380-392.	16.4	38
88	Optimal embodied energy abatement strategy for Beijing economy: Based on a three-scale input-output analysis. Renewable and Sustainable Energy Reviews, 2016, 53, 1602-1610.	16.4	84
89	Transverse concentration distribution in Taylor dispersion: Gillâ€™s method of series expansion supported by concentration moments. International Journal of Heat and Mass Transfer, 2016, 95, 131-141.	4.8	34
90	Embodied water accounting and renewability assessment for ecological wastewater treatment. Journal of Cleaner Production, 2016, 112, 4628-4635.	9.3	23

#	Article	IF	Citations
91	Virtual water accounting for a building construction engineering project with nine sub-projects: a case in E-town, Beijing. Journal of Cleaner Production, 2016, 112, 4691-4700.	9.3	39
92	The asymptotic time variation of Taylor dispersivity for scalar transport in a two-zone packed tube. International Journal of Heat and Mass Transfer, 2015, 83, 416-427.	4.8	3
93	Virtual water assessment for Macao, China: highlighting the role ofÂexternal trade. Journal of Cleaner Production, 2015, 93, 308-317.	9.3	34
94	Global supply chain of arable land use: Production-based and consumption-based trade imbalance. Land Use Policy, 2015, 49, 118-130.	5.6	97
95	Renewability and sustainability of biogas system: Cosmic exergy based assessment for a case in China. Renewable and Sustainable Energy Reviews, 2015, 51, 1509-1524.	16.4	43
96	Exergy based renewability assessment: Case study to ecological wastewater treatment. Ecological Indicators, 2015, 58, 392-401.	6.3	18
97	Axial diffusion effect on concentration dispersion. International Journal of Heat and Mass Transfer, 2015, 84, 571-577.	4.8	21
98	Virtual land use change in China 2002â€“2010: Internal transition and trade imbalance. Land Use Policy, 2015, 47, 55-65.	5.6	91
99	Structure decomposition analysis for energy-related GHG emission in Beijing: Urban metabolism and hierarchical structure. Ecological Informatics, 2015, 26, 60-69.	5.2	40
100	Interaction of magnetic field in flow of Maxwell nanofluid with convective effect. Journal of Magnetism and Magnetic Materials, 2015, 389, 48-55.	2.3	91
101	Embodied water for urban economy: A three-scale inputâ€“output analysis for Beijing 2010. Ecological Modelling, 2015, 318, 19-25.	2.5	53
102	Vertical specialization, global trade and energy consumption for an urban economy: A value added export perspective for Beijing. Ecological Modelling, 2015, 318, 49-58.	2.5	28
103	Environmental dispersion in a tidal wetland with sorption by vegetation. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 348-366.	3.3	33
104	Transport in a three-zone wetland: Flow velocity profile and environmental dispersion. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 136-153.	3.3	17
105	Mercury emissions by Beijing×³s fossil energy consumption: Based on environmentally extended inputâ€“output analysis. Renewable and Sustainable Energy Reviews, 2015, 41, 1167-1175.	16.4	57
106	Sustainability of a typical biogas system in China: Emergy-based ecological footprint assessment. Ecological Informatics, 2015, 26, 78-84.	5.2	43
107	Analytical Modeling for Environmental Dispersion in Wetland. Developments in Environmental Modelling, 2014, 26, 251-274.	0.3	9
108	Exact Solution for Peristaltic Transport of a Micropolar Fluid in a Channel with Convective Boundary Conditions and Heat Source/Sink. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 425-432.	1.5	6

#	Article	IF	Citations
109	Peristaltic Motion of a non-Newtonian Nanofluid in an Asymmetric Channel. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 451-461.	1.5	39
110	Virtual water accounting for building: case study for E-town, Beijing. Journal of Cleaner Production, 2014, 68, 7-15.	9.3	48
111	China's CH4 and CO2 emissions: Bottom-up estimation and comparative analysis. Ecological Indicators, 2014, 47, 112-122.	6.3	43
112	High-resolution survey of tidal energy towards power generation and influence of sea-level-rise: A case study at coast of New Jersey, USA. Renewable and Sustainable Energy Reviews, 2014, 32, 960-982.	16.4	40
113	Ecological Accounting for a Constructed Wetland. Developments in Environmental Modelling, 2014, 26, 209-229.	0.3	1
114	Systems ecological accounting for wastewater treatment engineering: Method, indicator and application. Ecological Indicators, 2014, 47, 32-42.	6.3	30
115	Methane emissions of energy activities in China 1980â€“2007. Renewable and Sustainable Energy Reviews, 2014, 29, 11-21.	16.4	58
116	Analytical solution for scalar transport in open channel flow: Slow-decaying transient effect. Journal of Hydrology, 2014, 519, 1974-1984.	5.4	55
117	Potential sites for tidal power generation: A thorough search at coast of New Jersey, USA. Renewable and Sustainable Energy Reviews, 2014, 39, 412-425.	16.4	26
118	Indicators for environmental dispersion in a three-layer wetland: Extension of Taylor's classical analysis. Ecological Indicators, 2014, 47, 254-269.	6.3	20
119	Embodied energy assessment for Macaoג³s external trade. Renewable and Sustainable Energy Reviews, 2014, 34, 642-653.	16.4	53
120	Water footprint assessment for service sector: A case study of gaming industry in water scarce Macao. Ecological Indicators, 2014, 47, 164-170.	6.3	37
121	Methane emissions in China 2007. Renewable and Sustainable Energy Reviews, 2014, 30, 886-902.	16.4	53
122	Energy regulation in China: Objective selection, potential assessment and responsibility sharing by partial frontier analysis. Energy Policy, 2014, 66, 292-302.	8.8	17
123	Emergy-based hybrid evaluation for commercial construction engineering: A case study in BDA. Ecological Indicators, 2014, 47, 179-188.	6.3	28
124	Systems accounting for energy consumption and carbon emission by building. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 1859-1873.	3.3	79
125	Energy and carbon emission review for Macao's gaming industry. Renewable and Sustainable Energy Reviews, 2014, 29, 744-753.	16.4	38
126	Ecological accounting for an integrated â€œpigâ€“biogasâ€“fishâ€•system based on emergetic indicators. Ecological Indicators, 2014, 47, 189-197.	6.3	54

#	Article	IF	Citations
127	Approach to transverse uniformity of concentration distribution of a solute in a solvent flowing along a straight pipe. Journal of Fluid Mechanics, 2014, 740, 196-213.	3.4	105
128	Economic development and coastal ecosystem change in China. Scientific Reports, 2014, 4, 5995.	3.3	210
129	Carbon Capture and Storage (CCS) policy for China: Implications from Some Representative Countries and Regions. Journal of Environmental Accounting and Management, 2014, 2, 43-63.	0.5	4
130	Embodied greenhouse gas emission by Macao. Energy Policy, 2013, 59, 819-833.	8.8	67
131	Embodied energy consumption of building construction engineering: Case study in E-town, Beijing. Energy and Buildings, 2013, 64, 62-72.	6.7	86
132	Demand-driven energy requirement of world economy 2007: A multi-region inputâ€“output network simulation. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 1757-1774.	3.3	129
133	Exergy based ecological footprint accounting for China. Ecological Modelling, 2013, 252, 83-96.	2.5	38
134	Greenhouse gas emissions of cornâ€“ethanol production in China. Ecological Modelling, 2013, 252, 176-184.	2.5	54
135	Virtual water accounting for the globalized world economy: National water footprint and international virtual water trade. Ecological Indicators, 2013, 28, 142-149.	6.3	262
136	Environmental dispersion in a three-layer wetland flow with free-surface. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 3382-3406.	3.3	49
137	Three-scale inputâ€“output modeling for urban economy: Carbon emission by Beijing 2007. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2493-2506.	3.3	156
138	Energy and greenhouse gas emissions review for Macao. Renewable and Sustainable Energy Reviews, 2013, 22, 23-32.	16.4	68
139	Environmental sustainability of wind power: An emergy analysis of a Chinese wind farm. Renewable and Sustainable Energy Reviews, 2013, 25, 229-239.	16.4	86
140	Water Footprint Assessment for Wastewater Treatment: Method, Indicator, and Application. Environmental Science & Technology, 2013, 47, 7787-7794.	10.0	113
141	Embodied energy assessment for ecological wastewater treatment by a constructed wetland. Ecological Modelling, 2013, 252, 63-71.	2.5	65
142	Multi-scale input-output analysis for multiple responsibility entities: Carbon emission by urban economy in Beijing 2007. Journal of Environmental Accounting and Management, 2013, 1, 43-54.	0.5	17
143	SWOC Analysis on CCS: A Case for Oxy-fuel Combustion CO2 Capture System. Journal of Environmental Accounting and Management, 2013, 1, 333-343.	0.5	3
144	Flow distribution and environmental dispersivity in a tidal wetland channel of rectangular cross-section. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4192-4209.	3.3	28

#	Article	IF	Citations
145	Environmental dispersion in a tidal flow through a depth-dominated wetland. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 5007-5025.	3.3	52
146	Global network of embodied water flow by systems input-output simulation. Frontiers of Earth Science, 2012, 6, 331-344.	2.1	57
147	Dispersion in a two-zone packed tube: An extended Taylorâ€™s analysis. International Journal of Engineering Science, 2012, 50, 113-123.	5.0	25
148	Environmental dispersion in a two-layer wetland: Analytical solution by method of concentration moments. International Journal of Engineering Science, 2012, 51, 272-291.	5.0	52
149	Taylor dispersion in a two-zone packed tube. International Journal of Heat and Mass Transfer, 2012, 55, 43-52.	4.8	34
150	Effect of wind on contaminant dispersion in a wetland flow dominated by free-surface effect. Ecological Modelling, 2012, 237-238, 101-108.	2.5	26
151	Nonrenewable energy cost of corn-ethanol in China. Energy Policy, 2012, 41, 340-347.	8.8	51
152	Energy abatement in Chinese industry: Cost evaluation of regulation strategies and allocation alternatives. Energy Policy, 2012, 45, 449-458.	8.8	21
153	Environmental emissions by Chinese industry: Exergy-based unifying assessment. Energy Policy, 2012, 45, 490-501.	8.8	24
154	Energy cost and greenhouse gas emissions of a Chinese wind farm. Procedia Environmental Sciences, 2011, 5, 25-28.	1.4	17
155	How to guide a sustainable industrial economy: Emergy account for resources input of Chinese industry. Procedia Environmental Sciences, 2011, 5, 51-59.	1.4	9
156	Energy cost and greenhouse gas emissions of a Chinese solar tower power plant. Procedia Environmental Sciences, 2011, 5, 77-80.	1.4	6
157	Ecological degradation and hydraulic dispersion of contaminant in wetland. Ecological Modelling, 2011, 222, 293-300.	2.5	75
158	Cosmic exergy based ecological assessment for a wetland in Beijing. Ecological Modelling, 2011, 222, 322-329.	2.5	39
159	Environmental dispersion in a two-zone wetland. Ecological Modelling, 2011, 222, 456-474.	2.5	53
160	Greenhouse gas emissions and natural resources use by the world economy: Ecological inputâ€“output modeling. Ecological Modelling, 2011, 222, 2362-2376.	2.5	112
161	Common challenges for ecological modelling: Synthesis of facilitated discussions held at the symposia organized for the 2009 conference of the International Society for Ecological Modelling in Quebec City, Canada, (October 6â€“9, 2009). Ecological Modelling, 2011, 222, 2456-2468.	2.5	6
162	An overview of energy consumption of the globalized world economy. Energy Policy, 2011, 39, 5920-5928.	8.8	181

#	Article	IF	Citations
163	Environmental dispersion in wetland flow. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 206-215.	3.3	72
164	Environmental dispersivity in free-water-surface-effect dominated wetland: multi-scale analysis. Frontiers of Environmental Science and Engineering in China, 2011, 5, 597-603.	0.8	27
165	Embodied carbon dioxide emission at supra-national scale: A coalition analysis for G7, BRIC, and the rest of the world. Energy Policy, 2011, 39, 2899-2909.	8.8	175
166	Energy security, efficiency and carbon emission of Chinese industry. Energy Policy, 2011, 39, 3520-3528.	8.8	62
167	Low-carbon building assessment and multi-scale inputâ€“output analysis. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 583-595.	3.3	125
168	Multi-scale analysis for environmental dispersion in wetland flow. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 3168-3178.	3.3	72
169	Low-carbon assessment for ecological wastewater treatment by a constructed wetland in Beijing. Ecological Engineering, 2011, 37, 622-628.	3.6	90
170	Energy cost of rapeseed-based biodiesel as alternative energy in China. Renewable Energy, 2011, 36, 1374-1378.	8.9	79
171	Nonrenewable energy cost and greenhouse gas emissions of a 1.5MW solar power tower plant in China. Renewable and Sustainable Energy Reviews, 2011, 15, 1961-1967.	16.4	86
172	Renewability of wind power in China: A case study of nonrenewable energy cost and greenhouse gas emission by a plant in Guangxi. Renewable and Sustainable Energy Reviews, 2011, 15, 2322-2329.	16.4	116
173	Cosmic emergy based ecological systems modelling. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2672-2700.	3.3	48
174	Unified process assessment for resources use and waste emissions by coal-fired power generation. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2723-2733.	3.3	9
175	Carbon emissions and resources use by Chinese economy 2007: A 135-sector inventory and inputâ€“output embodiment. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3647-3732.	3.3	198
176	An ecological risk assessment model for a pulsed contaminant emission into a wetland channel flow. Ecological Modelling, 2010, 221, 2927-2937.	2.5	69
177	Physical sustainability assessment for the China society: Exergy-based systems account for resources use and environmental emissions. Renewable and Sustainable Energy Reviews, 2010, 14, 1527-1545.	16.4	67
178	Greenhouse gas emissions in China 2007: Inventory and inputâ€“output analysis. Energy Policy, 2010, 38, 6180-6193.	8.8	274
179	Ecological inputâ€“output modeling for embodied resources and emissions in Chinese economy 2005. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1942-1965.	3.3	150
180	Numerical analysis of a lock-release oil slick. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2222-2230.	3.3	6

#	Article	IF	Citations
181	Unified account of gas pollutants and greenhouse gas emissions: Chinese transportation 1978â€“2004. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2710-2722.	3.3	37
182	Solar emergy evaluation for Chinese economy. Energy Policy, 2010, 38, 875-886.	8.8	140
183	Methane emissions by Chinese economy: Inventory and embodiment analysis. Energy Policy, 2010, 38, 4304-4316.	8.8	110
184	Embodied Carbon Dioxide Emissions of the World Economy: A Systems Input-Output Simulation for 2004. Procedia Environmental Sciences, 2010, 2, 1827-1840.	1.4	22
185	Exergetic assessment for ecological economic system: Chinese agriculture. Ecological Modelling, 2009, 220, 397-410.	2.5	48
186	Effects of CO2 concentration and moisture content of sugar-free media on the tissue-cultured plantlets in a large growth chamber. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 322-330.	3.3	8
187	Emergy evaluations for constructed wetland and conventional wastewater treatments. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1781-1789.	3.3	114
188	Notes on modelling of environmental transport in wetland. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1334-1345.	3.3	32
189	Environmental flow requirements for integrated water resources allocation in the Yellow River Basin, China. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2469-2481.	3.3	76
190	Measurement and evaluation of the metabolic capacity of an urban ecosystem. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1758-1765.	3.3	45
191	Exergy-based assessment for waste gas emissions from Chinese transportation. Energy Policy, 2009, 37, 2231-2240.	8.8	60
192	Extended-exergy analysis of the Chinese society. Energy, 2009, 34, 1127-1144.	8.8	120
193	Rural energy in China: Pattern and policy. Renewable Energy, 2009, 34, 2813-2823.	8.9	119
194	An inexact-stochastic dual water supply programming model. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 301-309.	3.3	15
195	Exergy-based water resource allocation of the mainstream Yellow River. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1721-1728.	3.3	17
196	Emergy-based energy and material metabolism of the Yellow River basin. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 923-934.	3.3	76
197	Emergy as embodied energy based assessment for local sustainability of a constructed wetland in Beijing. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 622-635.	3.3	104
198	The water resources assessment based on resource exergy for the mainstream Yellow River. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 331-344.	3.3	31

#	Article	IF	Citations
199	Exergetic evaluation of corn-ethanol production in China. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2450-2461.	3.3	80
200	Emergy analysis for â€˜Four in Oneâ€™ peach production system in Beijing. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 946-958.	3.3	69
201	Freshwater inflow requirements for the protection of the critical habitat and the drinking water sources in the Yangtze River Estuary, China. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2507-2518.	3.3	18
202	GIS-based optimization for the locations of sewage treatment plants and sewage outfalls â€“ A case study of Nansha District in Guangzhou City, China. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1746-1757.	3.3	28
203	Net ecosystem services value of wetland: Environmental economic account. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2837-2843.	3.3	71
204	Comparison of typical mega cities in China using emergy synthesis. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2827-2836.	3.3	68
205	Analysis for an environmental friendly seedling breeding system. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1766-1772.	3.3	7
206	Ecological evaluation of Beijing economy based on emergy indices. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2482-2494.	3.3	64
207	Temporal and spatial variations of energy consumption in rural China. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 4022-4031.	3.3	35
208	Taylor dispersion in a packed tube. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2215-2221.	3.3	31
209	Water resources in unified accounting for natural resources. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3693-3704.	3.3	18
210	A vertical subsurface-flow constructed wetland in Beijing. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1986-1997.	3.3	93
211	Urban dynamics and multiple-objective programming: A case study of Beijing. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1998-2017.	3.3	40
212	Emergy-based ecological account for the Chinese economy in 2004. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 2337-2356.	3.3	97
213	Water resources planning based on complex system dynamics: A case study of Tianjin city. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 2328-2336.	3.3	83
214	Exergy as a unified measure of water quality. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 663-672.	3.3	32
215	Ecological footprint accounting for energy and resource in China. Energy Policy, 2007, 35, 1599-1609.	8.8	86
216	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€”Part 1: Fossil fuels and energy minerals. Energy Policy, 2007, 35, 2038-2050.	8.8	75

#	Article	IF	Citations
217	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€”Part 2: Renewable energy sources and forest. Energy Policy, 2007, 35, 2051-2064.	8.8	62
218	Resource analysis of the Chinese society 1980â€“2002 based on energyâ€”Part 5: Resource structure and intensity. Energy Policy, 2007, 35, 2087-2095.	8.8	49
219	Estimation of methane and nitrous oxide emission from livestock and poultry in China during 1949â€“2003. Energy Policy, 2007, 35, 3759-3767.	8.8	91
220	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€”Part 3: Agricultural products. Energy Policy, 2007, 35, 2065-2078.	8.8	47
221	Modified ecological footprint accounting and analysis based on embodied exergyâ€”a case study of the Chinese society 1981â€“2001. Ecological Economics, 2007, 61, 355-376.	5.7	127
222	Chemical exergy based evaluation of water quality. Ecological Modelling, 2007, 200, 259-268.	2.5	41
223	Systems account of societal exergy utilization: China 2003. Ecological Modelling, 2007, 208, 102-118.	2.5	71
224	Resource analysis of the Chinese society 1980â€“2002 based on exergyâ€”Part 4: Fishery and rangeland. Energy Policy, 2007, 35, 2079-2086.	8.8	47
225	Emergy analysis of croppingâ€“grazing system in Inner Mongolia Autonomous Region, China. Energy Policy, 2007, 35, 3843-3855.	8.8	90
226	Emergy account for biomass resource exploitation by agriculture in China. Energy Policy, 2007, 35, 4704-4719.	8.8	111
227	Scarcity of exergy and ecological evaluation based on embodied exergy. Communications in Nonlinear Science and Numerical Simulation, 2006, 11, 531-552.	3.3	96
228	Exergy analysis for resource conversion of the Chinese Society 1993 under the material product system. Energy, 2006, 31, 1115-1150.	8.8	96
229	Exergy analysis of energy utilization in the transportation sector in China. Energy Policy, 2006, 34, 1709-1719.	8.8	92
230	Emergy analysis of Chinese agriculture. Agriculture, Ecosystems and Environment, 2006, 115, 161-173.	5.3	180
231	PIV observation of instantaneous velocity structure of lock release gravity currents in the slumping phase. Communications in Nonlinear Science and Numerical Simulation, 2006, 11, 262-270.	3.3	8
232	Exergy-based resource accounting for China. Ecological Modelling, 2006, 196, 313-328.	2.5	81
233	Ecological footprint accounting based on emergyâ€”A case study of the Chinese society. Ecological Modelling, 2006, 198, 101-114.	2.5	116
234	Exergy consumption of the earth. Ecological Modelling, 2005, 184, 363-380.	2.5	121

#	Article	IF	Citations
235	Some issues in constitutive modeling. Communications in Nonlinear Science and Numerical Simulation, 2004, 9, 305-312.	3.3	6
236	Advected turbulent line thermal driven by concentration difference. Communications in Nonlinear Science and Numerical Simulation, 2002, 7, 175-195.	3.3	1
237	Turbulent lock release gravity current. Science in China Series D: Earth Sciences, 2001, 44, 449-462.	0.9	7
238	Nukerical anatomy of lock-release gravity current. Communications in Nonlinear Science and Numerical Simulation, 2001, 6, 183-192.	3.3	2
239	Discrete large eddy simulation. Communications in Nonlinear Science and Numerical Simulation, 2001, 6, 17-22.	3.3	4
240	Remarks on large eddy simulation. Communications in Nonlinear Science and Numerical Simulation, 2000, 5, 85-90.	3.3	7
241	A formulation on large eddy simulation. Communications in Nonlinear Science and Numerical Simulation, 1999, 4, 245-248.	3.3	3
242	A Perturbational h4 Exponential Finite Difference Scheme for the Convective Diffusion Equation. Journal of Computational Physics, 1993, 104, 129-139.	3.8	35