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2000-	Highly-Cited	2013-	1995-2000	1993- 1995	1991- 1993	1989- 1991
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Communications in Nonlinear Science and Numerical Simulation, Elsevier, Editor-in-chief	2003-2013
Journal of Hydrodynamics, Elsevier, Deputy Editor	2000-2016
Frontiers of Earth Science, Springer, Associate editor	2014-
Energy Policy, Elsevier, Advisory editorial member	2006

Renewable & Sustainable Energy Reviews (Q1, IF:14.982, ranking 7/114 in ENERGY & FUELS)
Water Resources Research (Q1, IF:5.240, 11/98 in WATER RESOURCES)
Nature Communications (Q1, IF:14.919, 4/73 in MULTIDISCIPLINARY SCIENCES)
Applied Energy (Q1, IF:9.746, 6/143 in ENGINEERING, CHEMICAL)
Energy Policy (Q1, IF:6.142, 19/376 in ECONOMICS)
Communications in Nonlinear Science and Numerical Simulation (Q1, IF:4.260, 11/108 in MATHEMATICS, APPLIED)
Environmental Research Letters (Q1, IF:6.793, 33/247 in ENVIRONMENTAL SCIENCES)
Energy and Buildings (Q1, IF:5.879, 9/136 in ENGINEERING, CIVIL)
Renewable Energy (Q1, IF:8.001, 16/114 in ENERGY & FUELS)
Journal of Fluid Mechanics (Q1, IF: 3.627, 4/34 in PHYSICS, FLUIDS & PLASMAS)
Journal of Hydrology (Q1, IF: 5.722, 11/136 in ENGINEERING, CIVIL)
International Journal of Engineering Science (Q1, IF: 8.843, 1/170 in ENGINEERING, MULTIDISCIPLINARY)
Land Use Policy (Q1, IF:5.398, 23/125 in ENVIRONMENTAL STUDIES)
International Journal of Heat and Mass Transfer (Q1, IF:5.584, 10/133 in ENGINEERING, MECHANICS)
Journal of Cleaner Production (Q1, IF:7.246, 19/265 in ENVIRONMENTAL SCIENCES)
Science of the Total Environment (Q1, IF: 7.963, 25/274 in ENVIRONMENTAL SCIENCES)
Environmental Science & Technology (Q1, IF: 9.028, 20/274 in ENVIRONMENTAL SCIENCES)
Agriculture Ecosystems & Environment (Q1, IF: 5.567, 1/58 in AGRICULTURE, G0 59 Tf567, 1/58 in e

- [10] Kan SY, Chen B., Han M., Hayat T, Alsulami, H, **Chen GQ***
globalized world economy: Foreign trade and unequal household consumption. *Land Use Policy*, 2021; 103, 105324.
- [11] Wu XD, Li CH, Guo, JL, Wu XF, Meng, J, **Chen, GQ***. 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.
- [12] Fan Y, Wu XD, Shao L, Han MY, Chen B, Meng J, Wang P*, **Chen GQ***. 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.
- [13] Wu XD, Li CH, Shao L, Meng J, Zhang LX, **Chen GQ***. 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.
- [14] Li CH, Wu XD, **Chen GQ***, Han MY, Chen K, Yangzong C, Dan L, Ahmed A, Hayat T. Pastureland use of China: Accounting variations from different input-output analyses. *Land Use Policy*, 2021; 109, 105597.
- [15] Mukisa N, Zamora R, Lie TT, Wu X, Chen G. Multi criteria analysis ranking of solar photovoltaic modules manufacturing countries by an importing country: A case of Uganda. *Solar Energy*. 2021 Jul 15; 223:326-45.
- [16] Liu SY, Wang ZY, Han MY, Wang GD, Hayat T, **Chen GQ***. Energy-water nexus in seawater desalination project: A typical water production system in China. *Journal of Cleaner Production*, 2021; 279, 123412.
- [17] Wu XD, Shao L, **Chen GQ***, Han M, Chi Y., Yang Q., ... & Wakeel, M. Unveiling land footprint of solar power: A pilot solar tower project in China. *Journal of Environmental Management*, 2021; 280, 111741.
- [18] **Chen GQ, ... & McElroy** M.B. Prospective contributions of biomass pyrolysis to China's 2050 carbon reduction and renewable energy goals. *Nature communications*, 2021; 12(1), 1-12.
- [19] Mukisa N, Zamora R, Lie TT, Wu XF, **Chen GQ**. Multi criteria analysis ranking of solar photovoltaic modules manufacturing countries by an importing country: A case of Uganda. *Solar Energy*. 2021; 223:326-45.
- [20] Wu XD, Guo JL, **Chen GQ***, Wu XF, Meng J, Alhodaly M, Wakeel M. Energy use flows in the supply chains of the world economy: A full account of both primary and intermediate inputs. *Journal of Cleaner Production*. 2021:128621.
- [21] Li YL, Chen B, **Chen GQ***, Wu XF. 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.
- [22] Li YL, Chen B, Li CH, Li Z, **Chen GQ***. Energy perspective of Sino-US trade imbalance in global supply chains. *Energy Economics*, 2020; 92, 104959.
- [23] Wu XD, Guo JL, Li CH, **Chen GQ***, Ji X*. Carbon emissions embodied in the global supply chain: Intermediate and final trade imbalances. *Science of the Total Environment*, 2020; 707, 134670.
- [24] Li YL, Chen B, **Chen GQ***, Meng J, Hayat T. An embodied energy perspective of urban economy: a three-scale analysis for Beijing 2002–2012 with headquarter effect. *Science of The Total Environment*. 2020; 732:139097.
- [25] Liu YT, Chen B, **Chen GQ***, Li Z, Meng J, Tasawar H. 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 Sep 20; 736:139582.

- [26]Liu YT, Chen B, Wei WD, Shao L, Li Z, Jiang WZ, **Chen GQ***. Global water use associated with energy supply, demand and international trade of China. *Applied Energy*. 2020; 257:113992.
- [27]Fan Y, Wu XD, Wu XF, Li CH, Yang Q, Hayat T, Alsaedi A, Wang P*, **Chen GQ***. 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 Sep 1; 129:109934.
- [28]Kan SY, Chen B, Meng J, **Chen GQ***. 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.
- [29]Jiang WQ, **Chen GQ***. Dispersion of gyrotactic micro-organisms in pipe flows. *Journal of Fluid Mechanics*, 2020; 889.
- [30]Li YL, Chen B, **Chen GQ***. Carbon network embodied in international trade: global structural evolution and its policy implications. *Energy Policy*. 2020; 139:111316.
- [31]Guo JL, Jiang WQ, **Chen GQ***. Transient Solute Dispersion in Wetland Flows With Submerged
Water Resources Research, 2020; 56(2): e2019WR025586.
- [32]Guo JL, Jiang WQ, Zhang LZ, Li Z, **Chen GQ***. Effect of bed absorption on contaminant transport in wetland channel with rectangular cross-section. *Journal of Hydrology*, 2019; 578:124078.
- [33]Liu, SY, Zhang JJ, Han MY, Yao YX, **Chen GQ***. Multi-scale water use balance for a typical coastal city in China. *Journal of Cleaner Production*, 2019; 236: 117505.
- [34]Jiang WQ*, **Chen GQ***. Dispersion of active particles in confined unidirectional flows. *Journal of Fluid Mechanics*, 2019; 877: 1-34
- [35]Kan, SY, Chen B, **Chen GQ***. Worldwide Energy Use across Global Supply Chains: Decoupled from Economic Growth? *Applied Energy*, 2019; 250: 1235 45.
- [36]Wu XD, Ji X, Li CH, Xia XH, **Chen GQ***. 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 61.
- [37]**Chen GQ***, Wu XD, Guo JL, Meng J, Li CH. 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 47.
- [38]Wu XD, Guo JL, Li CH, Shao L, Han MY, **Chen GQ***. 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.
- [39]Wu, XF*, **Chen GQ***. Global Overview of Crude Oil Use: From Source to Sink through Inter-Regional Trade.

- [45]Liu SY, Zhang GX, Han MY, Wu XD, Li YL, Chen K, Meng J, Shao L, Wei WD, **Chen GQ***. Freshwater costs of seawater desalination: Systems process analysis for the case plant in China. *Journal of cleaner production*, 2019; 212: 677-686.
- [46]Jiang, WQ, **Chen GQ***. Environmental Dispersion in Layered Wetland: Moment Based Asymptotic Analysis. *Journal of Hydrology*, 2019; 569: 252-64.
- [47]Kan, SY, Chen B, Wu XF, Chen ZM, **Chen GQ***. Natural Gas Overview for World Economy: From Primary Supply to Final Demand via Global Supply Chains. *Energy Policy*. 2019; 124: 215-225.
- [48]Jiang WQ, **Chen GQ*** flow with wall absorption. *International Journal of Heat and Mass Transfer*, 2018; 127: 34-43.
- [49]Guo JL, Jiang WQ*, Zeng L., **Chen GQ***. Environmental transport in wetland channel with rectangular cross-
Journal of Hydrology, 2018; 565: 224-236.
- [50]Wu XD, Guo JL, Han MY, **Chen GQ***. 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.
- [51]Li G., Jiang WQ, Wang P., Guo JL., Li Z.*, **Chen GQ***. Concentration moments based analytical study on Taylor dispersion: open channel flow driven by gravity and wind. *Journal of Hydrology*. 2018; 562: 244-253.
- [52]Wu, X.D, Guo JL, **Chen GQ***. The striking amount of carbon emissions by the construction stage of coal-fired power generation system in China. *Energy Policy*. 2018; 117: 358-369.
- [53]Guo JL, Wu XD, Jiang WQ*, **Chen GQ***. Contaminant transport from point source on water surface in open channel flow with bed absorption. *Journal of Hydrology*. 2018; 561: 295-303.
- [54]Han MY*, **Chen GQ***, Li YL. Global water transfers embodied in international trade: Tracking imbalanced and inefficient flows. *Journal of Cleaner Production*. 2018; 184: 50-64.
- [55]Wu XF, **Chen GQ***. Coal use embodied in globalized world economy: From source to sink through supply chain. *Renewable and Sustainable Energy Reviews*. 2018; 81: 978-993.
- [56]Chen ZM, Ohshita S, Lenzen M, Wiedmann T, Jiborn M, Chen B, Lester L, Guan DB, Meng J, Xu S, **Chen GQ**. Consumption-based greenhouse gas emissions accounting with capital stock change highlights dynamics of fast-developing countries. *Nature communications*. 2018; 9(1):1-9.
- [57]Han MY*, **Chen GQ*** *Land Use Policy*. 2018; 70: 521-534.
- [58]Wei, WD, Wu, XD, Li JS*, Jiang, X, Zhang, P, Zhou, SL, Zhu, H, Liu, H, Chen, H., Guo, JL, **Chen GQ***. Ultra-high voltage network induced energy cost and carbon emissions. *Journal of Cleaner Production*. 2018; 178: 276-292.
- [59]Chen B, Li JS*, Wu XF, Han MY, Zeng L, Li Z, **Chen GQ***. Global energy flows embodied in international trade: A combination of environmentally extended input output analysis and complex network analysis. *Applied Energy*. 2018; 210: 98-107.
- [60]Chen B, Han MY, Peng K, Zhou SL, Shao L, Wu XF, Wei WD, Liu SY, Li Z, Li JS*, **Chen GQ***. Global land-water nexus: Agricultural land and freshwater use embodied in worldwide supply chains. *Science of The Total Environment*. 2018; 613: 931-943.
- [61]Wu XF, **Chen GQ***. Global primary energy use associated with production, consumption and international trade. *Energy Policy*. 2017; 111: 85-94.
- [62]Wang P, **Chen GQ***. Concentration distribution for pollutant dispersion in a reversal laminar flow. *Journal of Hydrology*, 2017; 551: 151-161.
- [63]Li G., Wang P., Jiang WQ, Zeng L., Li Z.*, **Chen GQ***. Taylor dispersion in wind-driven current. *Journal of Hydrology*. 2017; 555: 697-707.
- [64]Wu XF, **Chen GQ***. Energy use by Chinese economy: A systems cross-scale input-output analysis. *Energy Policy*. 2017; 108: 81-90.

- [65] Wang P*, **Chen GQ***. Contaminant transport in wetland flows with bulk degradation and bed absorption. *Journal of Hydrology*. 2017; 552: 674-83.
- [66] Chen B, Yang Q, Zhou SL, Li JS*, **Chen GQ***. Urban economy's carbon flow through external trade: Spatial-temporal evolution for Macao. *Energy Policy*, 2017; 110: 69-78.
- [67] Wang P*, **Chen GQ***. 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; 109:844-52.
- [68] Jiang WQ, Wang P, **Chen GQ***. Concentration distribution of environmental dispersion in a wetland flow: Extended solution. *Journal of Hydrology*. 2017; 549:340-50.
- [69] Chen B, Yang Q, Li JS*, **Chen GQ***. Decoupling analysis on energy consumption, embodied GHG emissions and economic growth The case study of Macao. *Renewable and Sustainable Energy Reviews*. 2017; 67:662-72.
- [70] Shao L*, Guan D, Wu Z, Wang P, **Chen GQ***. Multi-scale input-output analysis of consumption-based water resources: Method and application. *Journal of Cleaner Production*. 2017; 164:338-46.
- [71] Han MY, Dunford M, **Chen GQ***, Liu WD, Li Y, Liu SY. Global water transfers embodied in Mainland - and consumption-based perspectives. *Journal of Cleaner Production*. 2017; 161:188-99.
- [72] Li JS, **Chen GQ***, Chen B, Yang Q, Wei WD, Wang P, Dong KQ, Chen HP. The impact of trade on fuel-related mercury emissions in Beijing evidence from three-scale input-output analysis. *Renewable and Sustainable Energy Reviews*. 2017; 75:742-52.
- [73] **Chen GQ***, Wu XF*. Energy overview for globalized world economy: Source, supply chain and sink. *Renewable and Sustainable Energy Reviews*. 2017; 69:735-49.
- [74] Wu XD, **Chen GQ***. 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; 195:125-36.
- [75] Wu XD, Xia XH, **Chen GQ***, Wu XF, Chen B. Embodied energy analysis for coal-based power generation system-highlighting the role of indirect energy cost. *Applied Energy*. 2016; 184:936-50.
- [76] Wang P, **Chen GQ***. Solute dispersion in open channel flow with bed absorption. *Journal of Hydrology*, 2016; 543: 208-217.
- [77] **Chen GQ***, Li JS*, Chen B, Wen C, Yang Q, Alsaedi A, Hayat T. An overview of mercury emissions by global fuel combustion: The impact of international trade. *Renewable and Sustainable Energy Reviews*. 2016; 65:345-55.
- [78] Han MY, **Chen GQ***, Meng J, Wu XD, Alsaedi A, Ahmad B. Virtual water accounting for a building construction engineering project with nine sub-projects: a case in E-town, Beijing. *Journal of Cleaner Production*. 2016; 112:4691-700.
- [79] Jiang WQ, Li JS, **Chen GQ***, Yang Q, Alsaedi A, Ahmad B, Hayat T. Mercury emissions embodied in Beijing economy. *Journal of Cleaner Production*. 2016; 129:134-42.
- [80] Shao L, Guan DB, Zhang N, Shan Y, & **Chen GQ***. Carbon emissions from fossil fuel consumption of Beijing in 2012. *Environmental Research Letters*, 2016; 11(11), 114028.
- [81] Li JS, Xia XH, **Chen GQ***, Alsaedi A, Hayat T. Optimal embodied energy abatement strategy for Beijing economy: Based on a three-scale input-output analysis. *Renewable and Sustainable Energy Reviews*. 2016; 53:1602-10. (
- [82] Shao L*, **Chen GQ***. Renewability assessment of a production system: Based on embodied energy as emergy. *Renewable and Sustainable Energy Reviews*. 2016; 57:380-92.
- [83] Shao L*, **Chen GQ***. Embodied water accounting and renewability assessment for ecological wastewater treatment. *Journal of Cleaner Production*. 2016; 112:4628-35.

- [84] Wang P, **Chen GQ**
expansion supported by concentration moments. *International Journal of Heat and Mass Transfer*. 2016; 95:131-41.
- [85] Wang P, **Chen GQ***. Solute dispersion in open channel flow with bed absorption. *Journal of Hydrology*. 2016; 543:208-17.
- [86] Wang P, **Chen GQ***. Hydraulic dispersion of diurnal reactive constituents in an open channel eutrophic flow. *Journal of Hydrology*. 2016; 537:200-7.
- [87] Wu XD, Yang Q, **Chen GQ***, Hayat T, Alsaedi A. Progress and prospect of CCS in China: Using learning curve to assess the cost-viability of a 2×600MW retrofitted oxyfuel power plant as a case study. *Renewable and Sustainable Energy Reviews*. 2016; 60:1274-85.
- [88] **Chen GQ***, Han MY*. Global supply chain of arable land use: Production-based and consumption-based trade imbalance. *Land Use Policy*. 2015; 49:118-30.
- [89] **Chen GQ***, Han MY*. Virtual land use change in China 2002–2010: Internal transition and trade imbalance. *Land Use Policy*. 2015; 47:55-65.
- [90] **Chen GQ***, Li JS*. Virtual water assessment for Macao, China: highlighting the role of external trade. *Journal of Cleaner Production*. 2015; 93:308-17.
- [91] Li G, **Chen GQ***, Wu Z, Li Z. The asymptotic time variation of Taylor dispersivity for scalar transport in a two-zone packed tube. *International Journal of Heat and Mass Transfer*. 2015; 83:416-27.
- [92] Li JS, **Chen GQ***, Hayat T, Alsaedi A. Mercury emissions by Beijing's fossil energy consumption: Based on environmentally extended input–output analysis. *Renewable and Sustainable Energy Reviews*. 2015; 41:1167-75.
- [93] Shao L, **Chen GQ***. Exergy based renewability assessment: Case study to ecological wastewater treatment. *Ecological Indicators*. 2015; 58:392-401.
- [94] Wang P, **Chen GQ***. Environmental dispersion in a tidal wetland with sorption by vegetation. *Communications in Nonlinear Science and Numerical Simulation*. 2015; 22(1–3):348-66.
- [95] Wang P, **Chen GQ***, Jiang CB, Alsaedi A, Wu Z, Zeng L. Transport in a three-zone wetland: Flow velocity profile and environmental dispersion. *Communications in Nonlinear Science and Numerical Simulation*. 2015; 20(1):136-53.
- [96] Wu XF, **Chen GQ**

- [104] Wu Z, Zeng L, **Chen GQ***. Analytical modeling for environmental dispersion in wetland. *Developments in Environmental Modelling*. 2014 (Vol. 26, pp. 251-274). Elsevier.
- [105] Li JS, Alsaed A, Hayat T, **Chen GQ***. Energy and carbon emission review for Macao's gaming industry. *Renewable and Sustainable Energy Reviews*. 2014; 29:744-53.
- [106] Li JS, **Chen GQ***. Water footprint assessment for service sector: A case study of gaming industry in water scarce Macao. *Ecological Indicators*. 2014; 47(0):164-70.
- [107] Li JS, **Chen GQ***, Wu XF, Hayat T, Alsaedi A, Ahmad B. Embodied energy assessment for Macao's external trade. *Renewable and Sustainable Energy Reviews*. 2014; 34:642-53.
- [108] Meng J, **Chen GQ***, Shao L, Li JS, Tang HS, Hayat T, Alsaedi A, Alsaedi F. Virtual water accounting for building: case study for E-town, Beijing. *Journal of Cleaner Production*. 2014; 68:7-15.
- [109] P. Wang, Z. Li, J.S. Li, Hayat T, A. A, **G.Q. Chen***. Indicators for environmental dispersion in a three-layer wetland: Extension of Taylor's classical analysis. *Ecological Indicators*. 2014; 47:254-69.
- [110] Shao L, **Chen GQ***, Chen ZM, Guo S, Han MY, Zhang B, Hayat T, Alsaedi A, Ahmad B. Systems accounting for energy consumption and carbon emission by building. *Communications in Nonlinear Science and Numerical Simulation*. 2014; 19(6):1859-73.
- [111] Shao L, **Chen GQ***, Hayat T, Alsaedi A. Systems ecological accounting for wastewater treatment engineering: Method, indicator and application. *Ecological Indicators*. 2014; 47:32-42.
- [112] Wu Z, **Chen GQ***. Analytical solution for scalar transport in open channel flow: Slow-decaying transient effect. *Journal of Hydrology*. 2014; 519, Part B:1974-84.
- [113] Wu Z, **Chen GQ***. 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.
- [114] Xia XH, Chen YB, Li JS, Tasawar H, Alsaedi A, **Chen GQ***. Energy regulation in China: Objective selection, potential assessment and responsibility sharing by partial frontier analysis. *Energy Policy*. 2014; 66:292-302.
- [115] Zhang B, **Chen GQ***. Methane emissions in China 2007. *Renewable and Sustainable Energy Reviews*. 2014; 30:886-902.
- [116] Zhang B, **Chen GQ***. China's CH₄ and CO₂ emissions: Bottom-up estimation and comparative analysis. *Ecological Indicators*. 2014; 47:112-22.
- [117] Zhang B., **Chen GQ***, Li JS, Tao L. Methane emissions of energy activities in China 1980–2007. *Renewable and Sustainable Energy Reviews*. 2014; 29(0):11-21.
- [118] **Chen GQ***, Guo S., Shao L., Li JS, Chen ZM. Three-scale input-output modeling for urban economy: Carbon emission by Beijing 2007. *Communications in Nonlinear Science and Numerical Simulation*. 2013; 18(9):2493-506.
- [119] Chen ZM*, **Chen GQ***. Demand-driven energy requirement of world economy 2007: A multi-region input–output network simulation. *Communications in Nonlinear Science and Numerical Simulation*. 2013; 18(7):1757-74.
- [120] Chen ZM*, **Chen GQ***. Virtual water accounting for the globalized world economy: National water footprint and international virtual water trade. *Ecological Indicators*. 2013; 28:142-9.
- [121] Chen ZM*, **Chen GQ***, Chen B. Embodied Carbon Dioxide Emission by the Globalized Economy: A Systems Ecological Input-Output Simulation. *Journal of Environmental Informatics*. 2013; 21(1):35-44.
- [122] Han MY, **Chen GQ***, Shao L, Li JS, Alsaedi A, Ahmad B, Guo S, Jiang MM, Ji X. Embodied energy consumption of building construction engineering: Case study in E-town, Beijing. *Energy and Buildings*. 2013; 64:62-72.
- [123] Li JS, **Chen GQ***. Energy and greenhouse gas emissions review for Macao. *Renewable and Sustainable Energy Reviews*. 2013; 22:23-32.

- [124] Li JS, **Chen GQ***, Lai TM, Ahmad B, Chen ZM, Shao L, Ji X. Embodied greenhouse gas emission by Macao. *Energy Policy*. 2013; 59:819-33.
- [125] Shao L, **Chen GQ***. Water Footprint Assessment for Wastewater Treatment: Method, Indicator, and Application. *Environmental Science & Technology*. 2013; 47(14):7787-94.
- [126] Wang P*, Wu Z, **Chen GQ***, Cui BS. Environmental dispersion in a three-layer wetland flow with free-surface. *Communications in Nonlinear Science and Numerical Simulation*. 2013; 18(12):3382-406.
- [127] Yang Q*, **Chen GQ***, Liao S, Zhao YH, Peng HW, Chen HP. Environmental sustainability of wind power: An emergy analysis of a Chinese wind farm. *Renewable and Sustainable Energy Reviews*. 2013; 25:229-39.
- [128] **Chen GQ***, Wu Z. Taylor dispersion in a two-zone packed tube. *International Journal of Heat and Mass Transfer*. 2012; 55(1-3):43-52.
- [129] **Chen GQ***, Wu Z*, Zeng L. Environmental dispersion in a two-layer wetland: Analytical solution by method of concentration moments. *International Journal of Engineering Science*. 2012; 51:272-91.
- [130] Wu Z, **Chen GQ***. Dispersion in a two-zone packed tube: An extended Taylor's analysis. *International Journal of Engineering Science*. 2012; 50(1):113-23.
- [131] Wu Z, Zeng L, **Chen GQ***, Li Z, Shao L, Wang P, Jiang Z. Environmental dispersion in a tidal flow through a depth-dominated wetland. *Communications in Nonlinear Science and Numerical Simulation*. 2012; 17(12):5007-25.
- [132] Xia XH, **Chen GQ***. Energy abatement in Chinese industry: Cost evaluation of regulation strategies and allocation alternatives. *Energy Policy*. 2012; 45:449-58.
- [133] Yang Q, **Chen GQ***. Nonrenewable energy cost of corn-ethanol in China. *Energy Policy*. 2012; 41:340-7.
- [134] **Chen GQ***, Xue H, Feingold G, et al. Vertical transport of pollutants by shallow cumuli from large eddy simulations. *Atmospheric Chemistry and Physics*, 2012; 12(23): 11319-11327.
- [135] Zeng L, **Chen GQ***, Wu Z, Li Z, Wu YH, Ji P. Flow distribution and environmental dispersivity in a tidal wetland channel of rectangular cross-section. *Communications in Nonlinear Science and Numerical Simulation*. 2012; 17(11):4192-209.
- [136] Zhang B, **Chen GQ***, Xia XH*, Li SC, Chen ZM, Ji X. Environmental emissions by Chinese industry: Exergy-based unifying assessment. *Energy Policy*. 2012; 45:490-501.
- [137] **Chen GQ***, Chen H*, Chen ZM*, Zhang B, Shao L, Guo S, Zhou SY, Jiang MM. Low-carbon building assessment and multi-scale input-output analysis. *Communications in Nonlinear Science and Numerical Simulation*. 2011; 16(1):583-95.
- [138] **Chen GQ***, Yang Q*, Zhao YH. 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(5):2322-9.
- [139] **Chen GQ***, Yang Q*, Zhao YH, Wang ZF. Nonrenewable energy cost and greenhouse gas emissions of a 1.5 MW solar power tower plant in China. *Renewable and Sustainable Energy Reviews*. 2011; 15(4):1961-7.
- [140] Chen H, **Chen GQ***. Energy cost of rapeseed-based biodiesel as alternative energy in China. *Renewable Energy*. 2011; 36(5):1374-8.
- [141] Chen ZM, **Chen GQ***. Embodied carbon dioxide emission at supra-national scale: A coalition analysis for G7, BRIC, and the rest of the world. *Energy Policy*. 2011; 39(5):2899-909.
- [142] Chen ZM, **Chen GQ***. An overview of energy consumption of the globalized world economy. *Energy Policy*. 2011; 39(10):5920-8.
- [143] Zhang B, **Chen GQ**, Yang Q, Chen ZM, Chen B, Li Z. How to guide a sustainable industrial economy: emergy account for resources input of Chinese industry. *Procedia Environmental Sciences*. 2011; 5:51-9.

- [144] Yang Q, **Chen GQ**, Zhao YH, Chen B, Li Z, Zhang B, Chen ZM, Chen H. Energy cost and greenhouse gas emissions of a Chinese wind farm. *Procedia Environmental Sciences*. 2011; 5:25-8.
- [145] Yang Q, **Chen GQ**, Zhao YH, Chen B, Li Z, Wang ZF. Energy cost and greenhouse gas emissions of a Chinese solar tower power plant. *Procedia Environmental Sciences*. 2011; 5:77-80.
- [146] Wu Z, Li Z, **Chen GQ***. Multi-scale analysis for environmental dispersion in wetland flow. *Communications in Nonlinear Science and Numerical Simulation*. 2011; 16(8):3168-78.
- [147] Xia XH, Huang GT, **Chen GQ***, Zhang B, Chen ZM, Yang Q. Energy security, efficiency and carbon emission of Chinese industry. *Energy Policy*. 2011; 39(6):3520-8.
- [148] Zeng L, **Chen GQ***, Tang HS, Wu Z. Environmental dispersion in wetland flow. *Communications in Nonlinear Science and Numerical Simulation*. 2011; 16(1):206-15.
- [149] **Chen GQ***, Chen ZM*. Carbon emissions and resources use by Chinese economy 2007: A 135-sector inventory and input-output embodiment. *Communications in Nonlinear Science and Numerical Simulation*. 2010; 15(11):3647-732.
- [150] **Chen GQ***, Zhang B. Greenhouse gas emissions in China 2007: Inventory and input-output analysis. *Energy Policy*. 2010; 38(10):6180-93.
- [151] Chen H, **Chen GQ***, Ji X. Cosmic emergy based ecological systems modelling. *Communications in Nonlinear Science and Numerical Simulation*. 2010; 15(9):2672-700.
- [152] Chen ZM, **Chen GQ***, Zhou JB, Jiang MM, Chen B. Ecological input-output modeling for embodied resources and emissions in Chinese economy 2005. *Communications in Nonlinear Science and Numerical Simulation*. 2010; 15(7):1942-65.
- [153] Ji X, **Chen GQ***. Unified account of gas pollutants and greenhouse gas emissions: Chinese transportation 1978-2004. *Communications in Nonlinear Science and Numerical Simulation*. 2010; 15(9):2710-22.
- [154] Jiang MM, Zhou JB, **Chen GQ***. Unified process assessment for resources use and waste emissions by coal-fired power generation. *Communications in Nonlinear Science and Numerical Simulation*. 2010; 15(9):2723-33.
- [155] Yang ZF, Jiang MM*, Chen B, Zhou JB, **Chen GQ***, Li SC. Solar emergy evaluation for Chinese economy. *Energy Policy*. 2010; 38(2):875-86.
- [156] Zhang B, **Chen GQ***. Methane emissions by Chinese economy: Inventory and embodiment analysis. *Energy Policy*. 2010; 38(8):4304-16.
- [157] Zhang B, **Chen GQ***. Physical sustainability assessment for the China society: Exergy-based systems account for resources use and environmental emissions. *Renewable and Sustainable Energy Reviews*. 2010; 14(6):1527-45.
- [158] Cai ZF, Yang Q, Zhang B, Chen H, Chen B*, **Chen GQ***. Water resources in unified accounting for natural resources. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(9-10):3693-704.
- [159] Chen B, **Chen GQ***. Emergy-based energy and material metabolism of the Yellow River basin. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(3):923-34.
- [160] Chen B, **Chen GQ***, Hao FH, Yang ZF. Exergy-based water resource allocation of the mainstream Yellow River. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(4):1721-8.
- [161] Chen B, **Chen GQ***, Hao FH, Yang ZF. The water resources assessment based on resource exergy for the mainstream Yellow River. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(1):331-44.
- [162] Chen B, Chen ZM, Zhou Y, Zhou JB, **Chen GQ***. Emergy as embodied energy based assessment for local sustainability of a constructed wetland in Beijing. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(2):622-35.
- [163] **Chen GQ**, Chen B*. Extended-exergy analysis of the Chinese society. *Energy*. 2009; 34(9):1127-44.

- [164] **Chen GQ***, Zeng L. Taylor dispersion in a packed tube. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(5):2215-21.
- [165] Chen ZM, **Chen GQ***, Chen B, Zhou JB, Yang ZF, Zhou Y. Net ecosystem services value of wetland: Environmental economic account. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(6):2837-43.
- [166] Ji X, **Chen GQ***, Chen B*, Jiang MM. Exergy-based assessment for waste gas emissions from Chinese transportation. *Energy Policy*. 2009; 37(6):2231-40.
- [167] Jiang MM, Zhou JB, Chen B, Yang ZF, Ji X, Zhang L, **Chen GQ***. Ecological evaluation of Beijing economy based on emergy indices. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(5):2482-94.
- [168] Yang Q, Chen B, Ji X, He YF, **Chen GQ***. Exergetic evaluation of corn-ethanol production in China. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(5):2450-61.
- [169] Zeng L, **Chen GQ***. Notes on modelling of environmental transport in wetland. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(4):1334-45.
- [170] Zhou JB, Jiang MM, Chen B, **Chen GQ***. Emergy evaluations for constructed wetland and conventional wastewater treatments. *Communications in Nonlinear Science and Numerical Simulation*. 2009; 14(4):1781-9.
- [171] Jiang MM, Zhou JB, Chen B, **Chen GQ***. Emergy-based ecological account for the Chinese economy in 2004. *Communications in Nonlinear Science and Numerical Simulation*. 2008; 13(10):2337-56.
- [172] Chen B, **Chen GQ***. Resource analysis of the Chinese society 1980-2002 based on exergy - Part 3: Agricultural products. *Energy Policy*. 2007; 35(4):2065-78.
- [173] Chen B, **Chen GQ***. Resource analysis of the Chinese society 1980-2002 based on exergy - Part 4: Fishery and rangeland. *Energy Policy*. 2007; 35(4):2079-86.
- [174] Chen B, **Chen GQ***. Resource analysis of the Chinese society 1980-2002 based on exergy - Part 2: Renewable energy sources and forest. *Energy Policy*. 2007; 35(4):2051-64.
- [175] Chen B, **Chen GQ***. Modified ecological footprint accounting and analysis based on embodied exergy - a case study of the Chinese society 1981-2001. *Ecological Economics*. 2007; 61(ID 174/Lang (zh-Hant)BDC

[186] Ji X, **Chen GQ***. Exergy analysis of energy utilization in the transportation sector in China. ***Energy Policy***. 2006; 34(14):1709-19.

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