



Guoqian Chen

Birth date: February 21, 1963
Nationality: China
Mailing Address: College of Engineering,
Peking University,
Beijing 100871,
China
E-mail: gqchen@pku.edu.cn
Tel: 86-10-62767167(o), 13520311503(m)
Website: <http://en.coe.pku.edu.cn/Faculty-A-Z/6.htm>

RESEARCH INTEREST

Systems Ecology and Sustainability Science
Global and regional studies
Economic systems research
Bio-fuels and ecological engineering
Renewable Energy and Resources
Environmental Science
Ecological Economics and Philosophy
Low Carbon Metrics
Computational Fluid Dynamics
Heat and Mass Transfer
Climate Change Thermodynamics
Numerical Simulation and Systems Modelling

EDUCATION

Sep. 1978 - Jul. 1982 Huazhong Institute of Technology (Huazhong University of Science and Technology), Wuhan, China. B.Engng. in Thermal Power Engrg.;

Sep. 1982 - Jul. 1985 Huazhong Institute of Technology, Wuhan, China. M.Engng. in Thermal Power Engrg.;

Sep. 1985 - Jul. 1989 Peking University, Beijing, China. Ph.D. in Applied Mathematics and Fluid Mechanics.

PROFESSIONAL EXPERIENCE

Sep. 1996 - Present Professor, Department of Mechanics, Peking University, Beijing, China;

Feb. 2012 - Present Distinguished Professor, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia;

Sep. 1995 - Aug. 1996 Visiting Professor, Department of Civil Engineering, Hong Kong University, Hong Kong, China;

Sep. 1993 - Aug. 1995 Visiting Professor, Department of Mechanical Engineering, University of Pittsburgh, Pittsburgh, United States;

Sep. 1991 - Aug. 1993 Associate Professor/ Professor, Department of Jet Propulsion, Beijing University of Aeronautics and Astronautics, Beijing, China;

Jun. 1989 - Aug. 1991 Assistant Professor/ Associate Professor, Institute of Mechanics, Chinese Academic of Science, Beijing, China.

MAJOR HONOURS AND AWARDS

Thomson Reuters Highly Cited Researchers Award, 2014 (for the period of 2002- 2012) ;

Thomson Reuters China Citation Laureates, 2014;

ISI Highly Cited Researcher, 2013;

National Award for Science and Technology Progress (2nd Prize), 2012;

Ministry of Education Award for Science and Technology Progress (1st Prize), 2009;

Elsevier Award for Most-Cited Economics Journal Paper (2004-2008), 2009;

Hok Ying-Tong Education Foundation Award for Outstanding Young Teachers, 1999;

Ministry of Education Award for Trans-Century Excellent Talents in Universities, 1998;

Ministry of Education Award for Outstanding Young Teachers in Universities, 1997;

Zhou Pei-Yuan Outstanding Paper Award in Hydrodynamics (1st Prize), 1995.

EDITORIAL MEMBERSHIPS

Communications in Nonlinear Science and Numerical Simulation, Editor;

Journal of Hydrodynamics, Associate editor;

Frontiers of Earth Science, Associate editor;

Annals of Materials Science & Engineering, Editorial member;

Conference Papers in Energy, Editorial member;

Energy Policy, Editorial member;

Ecological Indicators, Editorial member;

Energy and Emission Control Technologies, Honorary editorial member;
Global Journal of Agricultural Innovation, Research & Development, Editorial member;
International Journal of Metallurgy Science and Technology, Editorial member;
International Journal of Composite Materials and Metrics, Editorial member;
International Journal of Bio-materials and Bio-medical Engineering, Editorial member;
International Journal of Nonlinear Science and Numerical Simulation, Editorial member;
International Journal of Applied Engineering Research, Editorial member;
International Journal of Information Science, Editorial member;
International Journal of Finance and Insurance, Editorial member;
International Journal of Clean Coal and Energy, Editorial member;
Journal of Environmental Accounting and Management, Editorial member;
Journal of Urban Design and Planning, Editorial member;
Mechanics of Low Carbon Economy, Editorial member;
Modeling Earth Systems and Environment, Editorial member;
Multi-Component Materials, Editorial member;
Renewable Bioresources, Editorial member.

RECENT PUBLICATIONS IN SCI/SSCI Q1 & Q2

- [1] Wu, X. D., Xia, X. H., **Chen, G.Q.***, Wu, X. F. and Chen, B., 2016, Embodied energy analysis for coal-based power generation system-highlighting the role of indirect energy cost. *Applied Energy*. DOI: 10.1016/j.apenergy.2016.03.027. **(IF=5.613, Q1)**
- [2] Wang, P. and **Chen, G.Q.***, 2016, Hydraulic dispersion of diurnal reactive constituents in an open channel eutrophic flow. *Journal of Hydrology*. 537, 200-207. **(IF=3.053, Q1)**
- [3] Wu, X. D., Yang, Q., **Chen, G.Q.***, Hayat, T. and Alsaedi, A., 2016, 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*. 60, 1274-1285. **(IF=5.901, Q1)**
- [4] Shao, L. and **Chen, G.Q.***, 2016, Renewability assessment of a production system: Based on embodied energy as emergy. *Renewable and Sustainable Energy Reviews*. 57, 380-392. **(IF=5.901, Q1)**
- [5] Li, J.S., Xia, X.H., **Chen, G.Q.***, Alsaedi, A. and Hayat, T., 2016, Optimal embodied energy abatement strategy for Beijing economy: Based on a three-scale input-output analysis, *Renewable and Sustainable Energy Reviews*. 53, 1602-1610. **(IF=5.901, Q1)**
- [6] Shao, L. and **Chen, G.Q.***, 2016, Embodied water accounting and renewability assessment for ecological wastewater treatment, *Journal of Cleaner Production*. 112, 4628-4635. **(IF=3.844, Q1)**

- [7] Han, M.Y., **Chen, G.Q.***, Meng, J., Wu, X.D., Alsaedi, A., Ahmad, B., 2016, Virtual water accounting for a building construction engineering project with nine sub-projects: a case in E-town, Beijing, *Journal of Cleaner Production*. 112, 4691-4700 . (IF=3.844, Q1)
- [8] Han, M.Y., **Chen, G.Q.***, Mustafa, M.T., Hayat, T., Shao, L., Li, J.S., Xia, X.H., and Ji, X., 2015, Embodied water for urban economy: A three-scale input-output analysis for Beijing 2010, *Ecological Modelling*. DOI. 10.1016/j.ecolmodel.2015.05.024. (IF=2.321, Q2)
- [9] Shao, L. and **Chen, G.Q.***, 2015, Exergy based renewability assessment: Case study to ecological wastewater treatment, *Ecological Indicators*. 58, 392-401. (IF=3.444, Q1)
- [10] **Chen, G. Q.*** and Han, M. Y., 2015, Global supply chain of arable land use: Production-based and consumption-based trade imbalance, *Land Use Policy*. 49, 118-130. (IF=2.631, Q1)
- [11] Wu, X.F., **Chen, G.Q.***, Wu, X.D., Yang, Q., Alsaedi, A., Hayat, T. and Ahmad, B., 2015, Renewability and sustainability and biogas system: Cosmic exergy based assessment for a case in China, *Renewable and Sustainable Energy Reviews*. 51, 1509-1524. (IF=5.901, Q1)
- [12] **Chen, G.Q.*** and Han, M.Y., 2015, Virtual land use change in China 2002-2010: Internal transition and trade imbalance, *Land Use Policy*. 47, 55-65. (IF=2.631, Q1)
- [13] Li, G., **Chen, G.Q.***, Wu, Z. and Li, Z., 2015, The asymptotic time variation of Taylor dispersivity for scalar transport in a two-zone packed tube, *International Journal of Heat and Mass Transfer*. 83, 416-427. (IF=2.383, Q1)
- [14] Xia, X.H.*, Hu, Y., Alsaedi, A., Hayat, T., Wu, X.D. and **Chen, G.Q.**, 2015, Structure decomposition analysis for energy-related GHG emission in Beijing: Urban metabolism and hierarchical structure, *Ecological Informatics*. 26, 60-69. (IF=1.727, Q2)
- [15] **Chen, G.Q.*** and Li, J.S., 2015, Virtual water assessment for Macao, China: highlighting the role of external trade, *Journal of Cleaner Production*. 93, 308-317. (IF=3.844, Q1)
- [16] Li, J.S., **Chen, G.Q.***, Hayat, T. and Alsaedi, A., 2015, Mercury emissions by Beijing's fossil energy consumption: Based on environmentally extended input-output analysis, *Renewable and Sustainable Energy Reviews*. 41, 1167-1175. (IF=5.901, Q1)
- [17] Wang, P., **Chen, G.Q.***, Jiang, C.B., Alsaedi, A., Wu, Z. and Zeng, L., 2015, Transport in a three-zone wetland: Flow velocity profile and environmental dispersion, *Communications in Nonlinear Science and Numerical Simulation*. 20, 136-153. (IF=2.866, Q1)
- [18] Wang, P. and **Chen, G.Q.***, 2015, Environmental dispersion in a tidal wetland with sorption by vegetation, *Communications in Nonlinear Science and Numerical Simulation*. 22, 348-366. (IF=2.866, Q1)
- [19] Wu, Z. and **Chen, G.Q.***, 2015, Axial diffusion effect on concentration dispersion, *International Journal of Heat and Mass Transfer*. 84, 571-577. (IF=2.383, Q1)
- [20] Wu, X.F., Yang, Q., Xia, X.H., Wu, T.H., Wu, X.D., Shao, L., Hayat, T., Alsaedi, A. and **Chen, G.Q.***, 2015, Sustainability of a typical biogas system in China: Emergy-based ecological footprint assessment, *Ecological Informatics*. 26, 78-84. (IF=1.727, Q2)
- [21] Xia, X.H.*, Hu, Y., **Chen, G.Q.**, Alsaedi, A., Hayat, T. and Wu, X.D., 2014, Vertical specialization, global trade and energy consumption for an urban economy: A value added export perspective for Beijing, *Ecological Modelling*. DOI. 10.1016/j.ecolmodel.2014.11.005 (IF=2.321, Q2)
- [22] Wu, Z. and **Chen, G.Q.***, 2014, Analytical solution for scalar transport in open channel flow: Slow-decaying transient effect, *Journal of Hydrology*. 519, Part B, 1974-1984. (IF=3.053, Q1)
- [23] Wang, P., Li, Z.*, Huai, W.X., Chen, B., Li, J.S., Hayat, T., Alsaedi A. and **Chen, G.Q.**, 2014, Indicators for environmental dispersion in a three-layer wetland: Extension of Taylor's classical analysis, *Ecological Indicators*. 47, 254-269. (IF=3.444, Q1)

- [24] Li, J.S. and **Chen, G.Q.***, 2014, Water footprint assessment for service sector: A case study of gaming industry in water scarce Macao, *Ecological Indicators*. 47, 164-170. (IF=3.444, Q1)
- [25] Han, M.Y., Shao, L., Li, J.S., Guo, S., Meng, J., Ahmad, B., Hayat, T., Alsaedi, F., Ji, X.*, Alsaedi, A. and **Chen, G.Q.**, 2014, Emergy-based hybrid evaluation for commercial construction engineering: A case study in BDA, *Ecological Indicators*. 47, 179-188. (IF=3.444, Q1)
- [26] Shao, L., **Chen, G.Q.***, Hayat, T. and Alsaedi, A., 2014, Systems ecological accounting for wastewater treatment engineering: Method, indicator and application, *Ecological Indicators*. 47, 32-42. (IF=3.444, Q1)
- [27] Wu, X.F., Wu, X.D., Li, J.S., Xia, X.H., Mi, T., Yang, Q.*, **Chen, G.Q.**, Chen, B., Hayat, T. and Alsaedi, A.*, 2014, Ecological accounting for an integrated “pig–biogas–fish” system based on emergy indicators, *Ecological Indicators*. 47, 189-197. (IF=3.444, Q1)
- [28] Meng, J., **Chen, G.Q.***, Shao, L., Li, J.S., Tang, H.S., Hayat, T., Alsaedi, A. and Alsaedi, F., 2014, Virtual water accounting for building: case study for E-town, Beijing, *Journal of Cleaner Production*. 68, 7-15. (IF=3.398, Q1)
- [29] Li, J.S., **Chen, G.Q.***, Wu, X.F., Hayat, T., Alsaedi, A. and Ahmad, B., 2014, Embodied energy assessment for Macao's external trade, *Renewable and Sustainable Energy Reviews*. 34, 642-653. (IF=5.901, Q1)
- [30] Tang, H.S.*, Kraatz, S., Qu, K., **Chen, G.Q.**, Aboobaker, N. and Jiang, C.B. ,2014, 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*. 32, 960-982. (IF=5.901, Q1)
- [31] Li, J.S., Alsaedi, A., Hayat, T., **Chen, G.Q.***, 2014, Energy and carbon emission review for Macao's gaming industry, *Renewable and Sustainable Energy Reviews*. 29, 744-753. (IF=5.901, Q1)
- [32] Shao, L., **Chen, G.Q.***, Chen, Z.M., Guo, S., Han, M.Y., Zhang, B., Hayat, T., Alsaedi, A. and Ahmad, B., 2014, Systems accounting for energy consumption and carbon emission by building, *Communications in Nonlinear Science and Numerical Simulation*. 19(6), 1859-1873. (IF=2.866, Q1)
- [33] Wu, Z., **Chen, G.Q.***, 2014, Approach to transverse uniformity of concentration distribution of a solute in a solvent flowing along a straight pipe, *Journal of Fluid Mechanics*. 740, 196-213. (IF= 2.383, Q1)
- [34] Xia, X.H., Chen, Y.B., Li, J.S., Tasawar, H., Alsaedi, A. and **Chen, G.Q.***, 2014, Energy regulation in China: Objective selection, potential assessment and responsibility sharing by partial frontier analysis, *Energy Policy*. 66, 292-302. (IF=2.575, Q1)
- [35] Zhang, B. **Chen, G.Q.***, 2014, China's CH₄ and CO₂ emissions: Bottom-up estimation and comparative analysis, *Ecological Indicators*. 47, 112-122. (IF=3.444, Q1)
- [36] Zhang, B., **Chen, G.Q.***, Li, J.S., Tao, L., 2014, Methane emissions of energy activities in China 1980-2007, *Renewable and Sustainable Energy Reviews*. 29, 11-21. (IF=5.901, Q1)
- [37] Zhang, Bo and **Chen, G.Q.***, 2014, Methane emissions in China 2007, *Renewable and Sustainable Energy Reviews*. 30, 886-902. (IF=5.901, Q1)
- [38] **Chen, G.Q.***, Guo, S.*, Shao, L., Li, J.S., Chen, Z.M., 2013, Three-scale input-output modeling for urban economy: Carbon emission by Beijing 2007, *Communications in Nonlinear Science and Numerical Simulation*. 18 (9), 2493-2506. (IF=2.866, Q1)

- [39] Chen, Z.M.*, **Chen, G.Q.***, 2013, Virtual water accounting for the globalized world economy: National water footprint and international virtual water trade, *Ecological Indicators*. 28, 142-149. (IF=3.444, Q1)
- [40] Chen, Z.M.*, **Chen, G.Q.***, 2013, Demand-driven energy requirement of world economy 2007: A multi-region input-output network simulation, *Communications in Nonlinear Science and Numerical Simulation*. 18 (7), 1757-1774. (IF=2.866, Q1)
- [41] Han, M.Y., **Chen, G.Q.***, Shao, L., Li, J.S., Alsaedi, A., Ahmad, B., Guo, S., Jiang, M.M., Ji, X., 2013, Embodied energy consumption of building construction engineering: Case study in E-town, Beijing, *Energy and Buildings*. 64, 62-72. (IF=2.884, Q1)
- [42] Li, J.S., **Chen, G.Q.***, Lai, T.M., Ahmad, B., Chen, Z.M., Shao, L., Ji, X., 2013, Embodied greenhouse gas emission by Macao, *Energy Policy*. 59, 819-833. (IF=2.575, Q1)
- [43] Li, J.S., **Chen, G.Q.***, 2013, Energy and greenhouse gas emissions review for Macao, *Renewable & Sustainable Energy Reviews*. 22, 23-32. (IF=5.901, Q1)
- [44] Shao, L., Wu, Z., Zeng, L., Chen, Z.M., Zhou, Y., **Chen, G.Q.***, 2013, Embodied energy assessment for ecological wastewater treatment by a constructed wetland, *Ecological Modelling*. 252, 63-71. (IF=2.321, Q2)
- [45] Shao, L., Wu, Z., **Chen, G.Q.***, 2013, Exergy based ecological footprint accounting for China, *Ecological Modelling*. 252, 83-96. (IF=2.321, Q2)
- [46] Shao, L., **Chen, G.Q.***, 2013, Water Footprint Assessment for Wastewater Treatment: Method, Indicator, and Application, *Environmental Science & Technology*. 47 (14), 7787-7794. (IF=5.330, Q1)
- [47] Wang, P., Wu, Z., **Chen, G.Q.***, Cui, B.S., 2013, Environmental dispersion in a three-layer wetland flow with free-surface, *Communications in Nonlinear Science and Numerical Simulation*. 18 (12), 3382-3406. (IF=2.866, Q1)
- [48] Yang, Q.*, **Chen, G.Q.***, Liao, S., Zhao, Y.H., Peng, H.W., Chen, H.P., 2013, Environmental sustainability of wind power: An emergy analysis of a Chinese wind farm, *Renewable and Sustainable Energy Reviews*. 25, 229-239. (IF=5.901, Q1)
- [49] Yang, Q., **Chen, G.Q.***, 2013, Greenhouse gas emissions of corn-ethanol production in China, *Ecological Modelling*. 252, 176-184. (IF=2.321, Q2)
- [50] **Chen, G.Q.***, Wu, Z.*, Zeng, L., 2012, Environmental dispersion in a two-layer wetland: Analytical solution by method of concentration moments, *International Journal of Engineering Science*. 51, 272-291. (IF=2.668, Q1)
- [51] **Chen, G.Q.***, Wu, Z., 2012, Taylor dispersion in a two-zone packed tube, *International Journal of Heat and Mass Transfer*. 55 (1-3), 43-52. (IF=2.383, Q1)
- [52] Wu, Z., **Chen, G.Q.***, 2012, Dispersion in a two-zone packed tube: An extended Taylor's analysis, *International Journal of Engineering Science*. 50 (1), 113-123. (IF=2.668, Q1)
- [53] Wu, Z., Zeng, L., **Chen, G.Q.***, Li, Z., Shao, L., Wang, P., Jiang, Z., 2012, Environmental dispersion in a tidal flow through a depth-dominated wetland, *Communications in Nonlinear Science and Numerical Simulation*. 17 (12), 5007-5025. (IF=2.866, Q1)
- [54] Xia, X.H., **Chen, G.Q.***, 2012, Energy abatement in Chinese industry: Cost evaluation of regulation strategies and allocation alternatives, *Energy Policy*. 45, 449-458. (IF=2.575, Q1)
- [55] Yang, Q., **Chen, G.Q.***, 2012, Nonrenewable energy cost of corn-ethanol in China, *Energy Policy*. 41, 340-347. (IF=2.575, Q1)
- [56] Zhang, B., **Chen, G.Q.***, Xia, X.H.*, Li, S.C., Chen, Z.M., Ji, X., 2012, Environmental emissions by Chinese industry: Exergy-based unifying assessment, *Energy Policy*. 45, 490-501. (IF=2.575, Q1)

- [57] Zeng, L., Wu, Y.H., Ji, P., Chen, B.*, Zhao, Y.J., **Chen, G.Q.**, Wu, Z., 2012, Effect of wind on contaminant dispersion in a wetland flow dominated by free-surface effect, *Ecological Modelling*. 237, 101-108. (IF=2.321, Q2)
- [58] Zeng, L., **Chen, G.Q.***, Wu, Z., Li, Z., Wu, Y.H., Ji, P., 2012, Flow distribution and environmental dispersivity in a tidal wetland channel of rectangular cross-section, *Communications in Nonlinear Science and Numerical Simulation*. 17 (11), 4192-4209. (IF=2.866, Q1)
- [59] Zeng, L., **Chen, G.Q.***, Tang, H.S., Wu, Z., 2011, Environmental dispersion in wetland flow, *Communications in Nonlinear Science and Numerical Simulation*. 16 (1), 206-215. (IF=2.866, Q1)
- [60] Zeng, L., **Chen, G.Q.***, 2011, Ecological degradation and hydraulic dispersion of contaminant in wetland, *Ecological Modelling*. 222 (2), 293-300. (IF=2.321, Q2)
- [61] Xia, X.H., Huang, G.T., **Chen, G.Q.***, Zhang, B., Chen, Z.M., Yang, Q., 2011, Energy security, efficiency and carbon emission of Chinese industry, *Energy Policy*. 39 (6), 3520-3528. (IF=2.575, Q1)
- [62] Wu, Z., Li, Z., **Chen, G.Q.***, 2011, Multi-scale analysis for environmental dispersion in wetland flow, *Communications in Nonlinear Science and Numerical Simulation*. 16 (8), 3168-3178. (IF=2.866, Q1)
- [63] Wu, Z., **Chen, G.Q.***, Zeng, L., 2011, Environmental dispersion in a two-zone wetland, *Ecological Modelling*. 222 (3), 456-474. (IF=2.321, Q2)
- [64] Larocque, G.R.*, Mailly, D., Yue, T.X., Anand, M., Peng, C., Kazanci, C., Etterson, M., Goethals, P., Jorgensen, S.E., Schramski, J.R., McIntire, E.J.B., Marceau, D.J., Chen, B., **Chen, G.Q.**, Yang, Z.F., Novotna, B., Luckai, N., Bhatti, J.S., Liu, J., Munson, A., Gordon, A.M., Ascough, J.C., 2011, 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 6-9, 2009), *Ecological Modelling*. 222 (14), 2456-2468. (IF=2.321, Q2)
- [65] Chen, Z.M., **Chen, G.Q.**, 2011, Embodied carbon dioxide emission at supra-national scale: A coalition analysis for G7, BRIC, and the rest of the world, *Energy Policy*. 39 (5), 2899-2909. (IF=2.575, Q1)
- [66] Chen, Z.M., **Chen, G.Q.***, 2011, An overview of energy consumption of the globalized world economy, *Energy Policy*. 39 (10), 5920-5928. (IF=2.575, Q1)
- [67] Chen, Z.M., Chen, B.*, **Chen, G.Q.***, 2011, Cosmic exergy based ecological assessment for a wetland in Beijing, *Ecological Modelling*. 222 (2), 322-329. (IF=2.321, Q2)
- [68] Chen, H., **Chen, G.Q.***, 2011, Energy cost of rapeseed-based biodiesel as alternative energy in China, *Renewable Energy*. 36 (5), 1374-1378. (IF=3.476, Q1)
- [69] **Chen, G.Q.***, Yang, Q.*, Zhao, Y.H., Wang, Z.F., 2011, Nonrenewable energy cost and greenhouse gas emissions of a 1.5 MW solar power tower plant in China, *Renewable & Sustainable Energy Reviews*. 15 (4), 1961-1967. (IF=5.901, Q1)
- [70] **Chen, G.Q.***, Yang, Q.*, Zhao, Y.H., 2011, Renewability of wind power in China: A case study of nonrenewable energy cost and greenhouse gas emission by a plant in Guangxi, *Renewable & Sustainable Energy Reviews*. 15 (5), 2322-2329. (IF=5.901, Q1)
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- [72] **Chen, G.Q.***, Chen, Z.M.*, 2011, Greenhouse gas emissions and natural resources use by the world economy: Ecological input-output modeling, *Ecological Modelling*. 222 (14), 2362-2376. (IF=2.321, Q2)
- [73] **Chen, G.Q.***, Chen, H.*, Chen, Z.M.*, Zhang, B., Shao, L., Guo, S., Zhou, S.Y., Jiang, M.M., 2011, Low-carbon building assessment and multi-scale input-output analysis, *Communications in Nonlinear Science and Numerical Simulation*. 16 (1), 583-595. (IF=2.866, Q1)
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- [75] Zhang, B., **Chen, G.Q.***, 2010, Methane emissions by Chinese economy: Inventory and embodiment analysis, *Energy Policy*. 38 (8), 4304-4316. (IF=2.575, Q1)
- [76] Zeng, L., Luo, Z.L., Chen, B.*, Yang, Z.F., Li, Z.*, Lin, W.X., **Chen, G.Q.**, 2010, Numerical analysis of a lock-release oil slick, *Communications in Nonlinear Science and Numerical Simulation*. 15 (8), 2222-2230. (IF=2.866, Q1)
- [77] Yang, Z.F., Jiang, M.M.*, Chen, B., Zhou, J.B., **Chen, G.Q.***, Li, S.C., 2010, Solar energy evaluation for Chinese economy, *Energy Policy*. 38 (2), 875-886. (IF=2.575, Q1)
- [78] Jiang, M.M., Zhou, J.B., **Chen, G.Q.***, 2010, Unified process assessment for resources use and waste emissions by coal-fired power generation, *Communications in Nonlinear Science and Numerical Simulation*. 15 (9), 2723-2733. (IF=2.866, Q1)
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- [80] Chen, Z.M., **Chen, G.Q.***, Zhou, J.B., Jiang, M.M., Chen, B., 2010, Ecological input-output modeling for embodied resources and emissions in Chinese economy 2005, *Communications in Nonlinear Science and Numerical Simulation*. 15 (7), 1942-1965. (IF=2.866, Q1)
- [81] Chen, H., **Chen, G.Q.***, Ji, X.*, 2010, Cosmic energy based ecological systems modelling, *Communications in Nonlinear Science and Numerical Simulation*. 15 (9), 2672-2700. (IF=2.866, Q1)
- [82] **Chen, G.Q.***, Zhang, B., 2010, Greenhouse gas emissions in China 2007: Inventory and input-output analysis, *Energy Policy*. 38 (10), 6180-6193. (IF=2.575, Q1)
- [83] **Chen, G.Q.***, Zeng, L.*, Wu, Z., 2010, An ecological risk assessment model for a pulsed contaminant emission into a wetland channel flow, *Ecological Modelling*. 221 (24), 2927-2937. (IF=2.321, Q2)
- [84] **Chen, G.Q.***, Chen, Z.M.*, 2010, Carbon emissions and resources use by Chinese economy 2007: A 135-sector inventory and input-output embodiment, *Communications in Nonlinear Science and Numerical Simulation*. 15 (11), 3647-3732. (IF=2.866, Q1)
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- [87] Zhao, R., Yang, Z.F.*, Sun, T., Chen, B., **Chen, G.Q.**, 2009, 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*. 14 (5), 2507-2518. (IF=2.866, Q1)
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