

Xi Liang

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,514
citations

331670

21
h-index

206112

48
g-index

55
all docs

55
docs citations

55
times ranked

2148
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Challenges and opportunities for carbon neutrality in China. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 141-155. | 29.7 | 587 |
| 2 | Global supply-chain effects of COVID-19 control measures. <i>Nature Human Behaviour</i> , 2020, 4, 577-587. | 12.0 | 521 |
| 3 | China's carbon capture, utilization and storage (CCUS) policy: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109601. | 16.4 | 174 |
| 4 | How would big data support societal development and environmental sustainability? Insights and practices. <i>Journal of Cleaner Production</i> , 2017, 142, 489-500. | 9.3 | 158 |
| 5 | Embodied greenhouse gas emissions from building China's large-scale power transmission infrastructure. <i>Nature Sustainability</i> , 2021, 4, 739-747. | 23.7 | 84 |
| 6 | Technological, economic and financial prospects of carbon dioxide capture in the cement industry. <i>Energy Policy</i> , 2013, 61, 1377-1387. | 8.8 | 74 |
| 7 | Developments in public communications on CCS. <i>International Journal of Greenhouse Gas Control</i> , 2015, 40, 449-458. | 4.6 | 73 |
| 8 | Perceptions of opinion leaders towards CCS demonstration projects in China. <i>Applied Energy</i> , 2011, 88, 1873-1885. | 10.1 | 61 |
| 9 | Zero carbon homes: Perceptions from the UK construction industry. <i>Energy Policy</i> , 2015, 79, 23-36. | 8.8 | 60 |
| 10 | Opportunities and challenges for decarbonizing steel production by creating markets for "green steel" products. <i>Journal of Cleaner Production</i> , 2021, 315, 128127. | 9.3 | 59 |
| 11 | Sharing tableware reduces waste generation, emissions and water consumption in China's takeaway packaging waste dilemma. <i>Nature Food</i> , 2020, 1, 552-561. | 14.0 | 52 |
| 12 | Strategy for promoting low-carbon technology transfer to developing countries: The case of CCS. <i>Energy Policy</i> , 2011, 39, 3106-3116. | 8.8 | 39 |
| 13 | Scheduling Optimization of Home Health Care Service Considering Patients' Priorities and Time Windows. <i>Sustainability</i> , 2017, 9, 253. | 3.2 | 37 |
| 14 | Assessing the value of CO2 capture ready in new-build pulverised coal-fired power plants in China. <i>International Journal of Greenhouse Gas Control</i> , 2009, 3, 787-792. | 4.6 | 36 |
| 15 | Getting ready for carbon capture and storage through a "CCS (Carbon Capture and Storage) Ready Hub": A case study of Shenzhen city in Guangdong province, China. <i>Energy</i> , 2011, 36, 5916-5924. | 8.8 | 36 |
| 16 | A long-term strategic plan of offshore CO2 transport and storage in northern South China Sea for a low-carbon development in Guangdong province, China. <i>International Journal of Greenhouse Gas Control</i> , 2018, 70, 76-87. | 4.6 | 36 |
| 17 | Getting ready for carbon capture and storage in the iron and steel sector in China: Assessing the value of capture readiness. <i>Journal of Cleaner Production</i> , 2020, 244, 118953. | 9.3 | 35 |
| 18 | Financing coal-fired power plant to demonstrate CCS (carbon capture and storage) through an innovative policy incentive in China. <i>Energy Policy</i> , 2021, 158, 112562. | 8.8 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Assessing the value of retrofitting cement plants for carbon capture: A case study of a cement plant in Guangdong, China. <i>Energy Conversion and Management</i> , 2012, 64, 454-465. | 9.2 | 31 |
| 20 | Kazakhstan's CO ₂ emissions in the post-Kyoto Protocol era: Production- and consumption-based analysis. <i>Journal of Environmental Management</i> , 2019, 249, 109393. | 7.8 | 30 |
| 21 | Structural patterns of city-level CO ₂ emissions in Northwest China. <i>Journal of Cleaner Production</i> , 2019, 223, 553-563. | 9.3 | 24 |
| 22 | Adaptive CO ₂ emissions mitigation strategies of global oil refineries in all age groups. <i>One Earth</i> , 2021, 4, 1114-1126. | 6.8 | 22 |
| 23 | Screening and simulation of offshore CO ₂ -EOR and storage: A case study for the HZ21-1 oilfield in the Pearl River Mouth Basin, Northern South China Sea. <i>International Journal of Greenhouse Gas Control</i> , 2019, 86, 66-81. | 4.6 | 18 |
| 24 | Stakeholder Views on Financing Carbon Capture and Storage Demonstration Projects in China. <i>Environmental Science & Technology</i> , 2012, 46, 643-651. | 10.0 | 17 |
| 25 | Opportunities and barriers for implementing CO ₂ capture ready designs: A case study of stakeholder perceptions in Guangdong, China. <i>Energy Policy</i> , 2012, 45, 243-251. | 8.8 | 17 |
| 26 | The GDCCSR Project Promoting Regional CCS-Readiness in the Guangdong Province, South China. <i>Energy Procedia</i> , 2013, 37, 7622-7632. | 1.8 | 16 |
| 27 | Opportunities and hurdles in applying CCS Technologies in China – With a focus on industrial stakeholders. <i>Energy Procedia</i> , 2009, 1, 4827-4834. | 1.8 | 14 |
| 28 | Business Models for Carbon Capture, Utilization and Storage Technologies in the Steel Sector: A Qualitative Multi-Method Study. <i>Processes</i> , 2020, 8, 576. | 2.8 | 14 |
| 29 | Techno-economic assessment of CO ₂ capture retrofit to existing power plants. <i>Energy Procedia</i> , 2011, 4, 1835-1842. | 1.8 | 13 |
| 30 | CO ₂ capture modelling for pulverised coal-fired power plants: A case study of an existing 1GW ultra-supercritical power plant in Shandong, China. <i>Separation and Purification Technology</i> , 2012, 94, 138-145. | 7.9 | 13 |
| 31 | Behavioral issues in financing low carbon power plants. <i>Energy Procedia</i> , 2009, 1, 4495-4502. | 1.8 | 11 |
| 32 | Getting Ready for Carbon Capture and Storage by Issuing Capture Options. <i>Environment and Planning A</i> , 2010, 42, 1286-1307. | 3.6 | 11 |
| 33 | The significance of calendar effects in the electricity market. <i>Applied Energy</i> , 2019, 235, 487-494. | 10.1 | 10 |
| 34 | Techno-economic assessment of future-proofing coal plants with postcombustion capture against technology developments. <i>Energy Procedia</i> , 2011, 4, 1909-1916. | 1.8 | 9 |
| 35 | Addressing Technology Uncertainties in Power Plants with Post-Combustion Capture. <i>Energy Procedia</i> , 2013, 37, 2359-2368. | 1.8 | 8 |
| 36 | Geological characterization and numerical modelling of CO ₂ storage in an aquifer structure offshore Guangdong Province, China. <i>Energy Procedia</i> , 2018, 154, 48-53. | 1.8 | 7 |

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|----|---|------|-----------|
| 37 | Modeling CO ₂ separation on amine-containing facilitated transport membranes (AFTMs) by linking effects of relative humidity, temperature, and pressure. International Journal of Greenhouse Gas Control, 2021, 108, 103327. | 4.6 | 7 |
| 38 | An assessment of the potential for retrofitting existing coal-fired power plants in China. Energy Procedia, 2011, 4, 1805-1811. | 1.8 | 6 |
| 39 | Potential evaluation of CO ₂ EOR and storage in oilfields of the Pearl River Mouth Basin, northern South China Sea. , 2018, 8, 954-977. | | 6 |
| 40 | Low-carbon development via greening global value chains: a case study of Belarus. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200024. | 2.1 | 6 |
| 41 | Simulation of Immiscible Water-Alternating-CO ₂ Flooding in the Lihua Oilfield Offshore Guangdong, China. Energies, 2020, 13, 2130. | 3.1 | 6 |
| 42 | Assessing the value of CO ₂ capture ready in new-build coal-fired power plants in China. Energy Procedia, 2009, 1, 4363-4370. | 1.8 | 5 |
| 43 | Financing new power plants "CCS Ready"™ in China—a case study of Shenzhen city. Energy Procedia, 2011, 4, 2572-2579. | 1.8 | 4 |
| 44 | The Evolution of Stakeholder Perceptions of Deploying CCS Technologies in China: Survey Results from Three Stakeholder Consultations in 2006, 2009 and 2012. Energy Procedia, 2013, 37, 7361-7368. | 1.8 | 4 |
| 45 | Locating new coal-fired power plants with Carbon Capture Ready design—a GIS case study of Guangdong province in China. Energy Procedia, 2011, 4, 2824-2830. | 1.8 | 3 |
| 46 | Early Opportunity for CO ₂ Capture from Gasification Plants in China. Energy Procedia, 2012, 14, 1451-1457. | 1.8 | 3 |
| 47 | Resolving the Tension between CCS Deployment and Chinese Energy Security. Environmental Science & Technology, 2013, 47, 4963-4964. | 10.0 | 3 |
| 48 | Exploring human health risk assessment based on the screening of primary targeted metal and chemical balance simulation of ionic speciation in an industrial area, China. Chemosphere, 2021, 277, 130353. | 8.2 | 3 |
| 49 | Technical Issues in Financing and Managing Risk of Large-scale Oxyfuel CO ₂ Capture Power Plant in China. Energy Procedia, 2014, 63, 7234-7241. | 1.8 | 2 |
| 50 | Reply to: Observed impacts of the COVID-19 pandemic on global trade. Nature Human Behaviour, 2021, 5, 308-309. | 12.0 | 2 |
| 51 | Study of a roadmap for carbon capture and storage development in Guangdong Province, China. International Journal of Sustainable Energy, 2016, 35, 858-874. | 2.4 | 1 |
| 52 | Macroeconomic impacts of global food price shocks on the economy of Turkey. Agricultural Economics (Czech Republic), 2018, 64, 517-525. | 1.1 | 1 |
| 53 | Assessing the Option Value of Retrofitting a 200MW Power Plant to Oxyfuel CO ₂ Capture. Energy Procedia, 2014, 63, 7330-7336. | 1.8 | 0 |
| 54 | A Preliminary Simulation of CO ₂ -EOR and Storage in One Heavy Oil Carbonate Oilfield Offshore Guangdong, China. Environmental Science and Engineering, 2019, , 3-16. | 0.2 | 0 |