

Haibo Zhai

List of Publications by Year in descending order

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53
papers

2,301
citations

257101

24
h-index

214527

47
g-index

53
all docs

53
docs citations

53
times ranked

2337
citing authors

#	ARTICLE	IF	CITATIONS
1	Dry cooling retrofits at existing fossil fuel-fired power plants in a water-stressed region: Tradeoffs in water savings, cost, and capacity shortfalls. <i>Applied Energy</i> , 2022, 306, 117997.	5.1	7
2	Many Hands Make Light Work: Widening the U.S. Path Forward from COP26. <i>Environmental Science & Technology</i> , 2022, 56, 10-12.	4.6	6
3	Microwave-accelerated regeneration of a non-aqueous slurry for energy-efficient carbon sequestration. <i>Materials Today Sustainability</i> , 2022, 19, 100168.	1.9	5
4	It is Time to Invest in 99% CO ₂ Capture. <i>Environmental Science & Technology</i> , 2022, 56, 9829-9831.	4.6	2
5	Policy-Driven Potential for Deploying Carbon Capture and Sequestration in a Fossil-Rich Power Sector. <i>Environmental Science & Technology</i> , 2022, 56, 9872-9881.	4.6	9
6	Reducing carbon dioxide emissions beyond 2030: Time to shift U.S. power-sector focus. <i>Energy Policy</i> , 2021, 148, 111778.	4.2	6
7	Effects of Climate Change on Capacity Expansion Decisions of an Electricity Generation Fleet in the Southeast U.S.. <i>Environmental Science & Technology</i> , 2021, 55, 2522-2531.	4.6	30
8	Transitioning to a carbon-constrained world: Reductions in coal-fired power plant emissions through unit-specific, least-cost mitigation frontiers. <i>Applied Energy</i> , 2021, 288, 116599.	5.1	16
9	Climate-Induced Tradeoffs in Planning and Operating Costs of a Regional Electricity System. <i>Environmental Science & Technology</i> , 2021, 55, 11204-11215.	4.6	5
10	Consumptive life cycle water use of biomass-to-power plants with carbon capture and sequestration. <i>Applied Energy</i> , 2021, 303, 117702.	5.1	13
11	A techno-economic assessment of carbon-sequestration tax incentives in the U.S. power sector. <i>International Journal of Greenhouse Gas Control</i> , 2021, 111, 103450.	2.3	14
12	Fossil fuel-fired power plant operations under a changing climate. <i>Climatic Change</i> , 2020, 163, 619-632.	1.7	6
13	Future U.S. Energy Policy: Two Paths Diverge in a Woodâ€”Does It Matter Which Is Taken?. <i>Environmental Science & Technology</i> , 2020, 54, 12807-12809.	4.6	2
14	On the Road to Paris: The Shifting Landscape of CO ₂ Reduction. <i>Environmental Science & Technology</i> , 2019, 53, 12156-12157.	4.6	1
15	Advanced Membranes and Learning Scale Required for Cost-Effective Post-combustion Carbon Capture. <i>IScience</i> , 2019, 13, 440-451.	1.9	29
16	Deep Reductions of Committed Emissions from Existing Power Infrastructure: Potential Paths in the United States and China. <i>Environmental Science & Technology</i> , 2019, 53, 14097-14098.	4.6	4
17	Boundary Dam or Petra Nova â€” Which is a better model for CCS energy supply?. <i>International Journal of Greenhouse Gas Control</i> , 2019, 82, 59-68.	2.3	69
18	Will We Always Have Paris? CO ₂ Reduction without the Clean Power Plan. <i>Environmental Science & Technology</i> , 2018, 52, 2432-2433.	4.6	2

#	ARTICLE	IF	CITATIONS
19	Systems Analysis of Physical Absorption of CO ₂ in Ionic Liquids for Pre-Combustion Carbon Capture. <i>Environmental Science & Technology</i> , 2018, 52, 4996-5004.	4.6	42
20	Managing China's coal power plants to address multiple environmental objectives. <i>Nature Sustainability</i> , 2018, 1, 693-701.	11.5	98
21	Assessing carbon pollution standards: Electric power generation pathways and their water impacts. <i>Energy Policy</i> , 2018, 120, 714-733.	4.2	10
22	The Economic Merits of Flexible Carbon Capture and Sequestration as a Compliance Strategy with the Clean Power Plan. <i>Environmental Science & Technology</i> , 2017, 51, 1102-1109.	4.6	21
23	Trade-offs in cost and emission reductions between flexible and normal carbon capture and sequestration under carbon dioxide emission constraints. <i>International Journal of Greenhouse Gas Control</i> , 2017, 66, 25-34.	2.3	16
24	Technical and Economic Assessments of Ionic Liquids for Pre-Combustion CO ₂ Capture at IGCC Power Plants. <i>Energy Procedia</i> , 2017, 114, 2166-2172.	1.8	10
25	The cost of carbon capture and storage for coal-fired power plants in China. <i>International Journal of Greenhouse Gas Control</i> , 2017, 65, 23-31.	2.3	60
26	Consumptive Water Use from Electricity Generation in the Southwest under Alternative Climate, Technology, and Policy Futures. <i>Environmental Science & Technology</i> , 2016, 50, 12095-12104.	4.6	26
27	Viability of Carbon Capture and Sequestration Retrofits for Existing Coal-Fired Power Plants under an Emission Trading Scheme. <i>Environmental Science & Technology</i> , 2016, 50, 12567-12574.	4.6	10
28	Marginal costs of water savings from cooling system retrofits: a case study for Texas power plants. <i>Environmental Research Letters</i> , 2016, 11, 104004.	2.2	21
29	A Techno-Economic Assessment of Hybrid Cooling Systems for Coal- and Natural-Gas-Fired Power Plants with and without Carbon Capture and Storage. <i>Environmental Science & Technology</i> , 2016, 50, 4127-4134.	4.6	20
30	Life cycle water use of coal- and natural-gas-fired power plants with and without carbon capture and storage. <i>International Journal of Greenhouse Gas Control</i> , 2016, 44, 249-261.	2.3	66
31	Membrane properties required for post-combustion CO ₂ capture at coal-fired power plants. <i>Journal of Membrane Science</i> , 2016, 511, 250-264.	4.1	93
32	Opportunities for Decarbonizing Existing U.S. Coal-Fired Power Plants via CO ₂ Capture, Utilization and Storage. <i>Environmental Science & Technology</i> , 2015, 49, 7571-7579.	4.6	62
33	Water Impacts of a Low-Carbon Electric Power Future: Assessment Methodology and Status. <i>Current Sustainable/Renewable Energy Reports</i> , 2015, 2, 1-9.	1.2	9
34	Membrane-based carbon capture from flue gas: a review. <i>Journal of Cleaner Production</i> , 2015, 103, 286-300.	4.6	288
35	Systems Analysis of Ionic Liquids for Post-combustion CO ₂ Capture at Coal-fired Power Plants. <i>Energy Procedia</i> , 2014, 63, 1321-1328.	1.8	28
36	Water Impacts of CO ₂ Emission Performance Standards for Fossil Fuel-fired Power Plants. <i>Environmental Science & Technology</i> , 2014, 48, 11769-11776.	4.6	22

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37	The Effects of Membrane-based CO ₂ Capture System on Pulverized Coal Power Plant Performance and Cost. Energy Procedia, 2013, 37, 1117-1124.	1.8	11
38	Techno-Economic Assessment of Polymer Membrane Systems for Postcombustion Carbon Capture at Coal-Fired Power Plants. Environmental Science & Technology, 2013, 47, 3006-3014.	4.6	103
39	Comparative Performance and Cost Assessments of Coal- and Natural-Gas-Fired Power Plants under a CO ₂ Emission Performance Standard Regulation. Energy & Fuels, 2013, 27, 4290-4301.	2.5	39
40	The Cost of Carbon Capture and Storage for Natural Gas Combined Cycle Power Plants. Environmental Science & Technology, 2012, 46, 3076-3084.	4.6	135
41	Water Use at Pulverized Coal Power Plants with Postcombustion Carbon Capture and Storage. Environmental Science & Technology, 2011, 45, 2479-2485.	4.6	123
42	Development of a modal emissions model for a hybrid electric vehicle. Transportation Research, Part D: Transport and Environment, 2011, 16, 444-450.	3.2	37
43	Carbon capture effects on water use at pulverized coal power plants. Energy Procedia, 2011, 4, 2238-2244.	1.8	14
44	Performance and cost of wet and dry cooling systems for pulverized coal power plants with and without carbon capture and storage. Energy Policy, 2010, 38, 5653-5660.	4.2	128
45	Assessing methods for comparing emissions from gasoline and diesel light-duty vehicles based on microscale measurements. Transportation Research, Part D: Transport and Environment, 2009, 14, 91-99.	3.2	87
46	Regional On-Road Vehicle Running Emissions Modeling and Evaluation for Conventional and Alternative Vehicle Technologies. Environmental Science & Technology, 2009, 43, 8449-8455.	4.6	20
47	Comparison of Flexible Fuel Vehicle and Life-Cycle Fuel Consumption and Emissions of Selected Pollutants and Greenhouse Gases for Ethanol 85 Versus Gasoline. Journal of the Air and Waste Management Association, 2009, 59, 912-924.	0.9	35
48	A Vehicle-Specific Power Approach to Speed- and Facility-Specific Emissions Estimates for Diesel Transit Buses. Environmental Science & Technology, 2008, 42, 7985-7991.	4.6	167
49	Link-Based Emission Factors for Heavy-Duty Diesel Trucks Based on Real-World Data. Transportation Research Record, 2008, 2058, 23-32.	1.0	46
50	Impact of Alternative Vehicle Technologies on Measured Vehicle Emissions. , 2008, , .		0
51	Comparing real-world fuel consumption for diesel- and hydrogen-fueled transit buses and implication for emissions. Transportation Research, Part D: Transport and Environment, 2007, 12, 281-291.	3.2	139
52	Speed- and Facility-Specific Emission Estimates for On-Road Light-Duty Vehicles on the Basis of Real-World Speed Profiles. Transportation Research Record, 2006, 1987, 128-137.	1.0	49
53	Speed- and Facility-Specific Emission Estimates for On-Road Light-Duty Vehicles on the Basis of Real-World Speed Profiles. , 0, .		40