

Jeffrey M Bielicki

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,231
citations

236833

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h-index

233338

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77
docs citations

77
times ranked

2138
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible CO ₂ -plume geothermal (CPG-F): Using geologically stored CO ₂ to provide dispatchable power and energy storage. <i>Energy Conversion and Management</i> , 2022, 253, 115082.	4.4	15
2	Environmental Consequences of Potential Strategies for China to Prepare for Natural Gas Import Disruptions. <i>Environmental Science & Technology</i> , 2022, 56, 1183-1193.	4.6	6
3	Recovering Rare Earth Elements from Coal Mine Drainage Using Industrial Byproducts: Environmental and Economic Consequences. <i>Environmental Engineering Science</i> , 2022, 39, 770-783.	0.8	5
4	The value of CO ₂ -Bulk energy storage with wind in transmission-constrained electric power systems. <i>Energy Conversion and Management</i> , 2021, 228, 113548.	4.4	9
5	Heat depletion in sedimentary basins and its effect on the design and electric power output of CO ₂ Plume Geothermal (CPG) systems. <i>Renewable Energy</i> , 2021, 172, 1393-1403.	4.3	30
6	Great SCOT! Rapid tool for carbon sequestration science, engineering, and economics. <i>Applied Computing and Geosciences</i> , 2020, 7, 100035.	1.0	17
7	Increased Power Generation due to Exothermic Water Exsolution in CO ₂ Plume Geothermal (CPG) Power Plants. <i>Geothermics</i> , 2020, 88, 101865.	1.5	28
8	Identifying geologic characteristics and operational decisions to meet global carbon sequestration goals. <i>Energy and Environmental Science</i> , 2020, 13, 5000-5016.	15.6	20
9	The value of bulk energy storage for reducing CO ₂ emissions and water requirements from regional electricity systems. <i>Energy Conversion and Management</i> , 2019, 181, 674-685.	4.4	24
10	Stakeholder Perspectives on Sustainability in the Food-Energy-Water Nexus. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	26
11	Vulnerability of existing and planned coal-fired power plants in Developing Asia to changes in climate and water resources. <i>Energy and Environmental Science</i> , 2019, 12, 3164-3181.	15.6	38
12	Acclimation and the response of hourly electricity loads to meteorological variables. <i>Energy</i> , 2018, 142, 473-485.	4.5	47
13	The stationarity of two statistical downscaling methods for precipitation under different choices of cross-validation periods. <i>International Journal of Climatology</i> , 2018, 38, e330.	1.5	11
14	An attainable global vision for conservation and human well-being. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 563-570.	1.9	71
15	Heterogeneity-assisted carbon dioxide storage in marine sediments. <i>Applied Energy</i> , 2018, 225, 876-883.	5.1	89
16	The geospatial and economic viability of CO ₂ storage in hydrocarbon depleted fractured shale formations. <i>International Journal of Greenhouse Gas Control</i> , 2018, 75, 8-23.	2.3	24
17	The role of environmental law. , 2018, , 298-303.		0
18	Monetizing Leakage Risk with Secondary Trapping in Intervening Stratigraphic Layers. <i>Energy Procedia</i> , 2017, 114, 4256-4261.	1.8	0

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19	Managing Geologic CO ₂ Storage with Pre-injection Brine Production in Tandem Reservoirs. Energy Procedia, 2017, 114, 4757-4764.	1.8	9
20	The Value of CO ₂ -Bulk Energy Storage to Reducing CO ₂ Emissions. Energy Procedia, 2017, 114, 6886-6892.	1.8	3
21	A Hybrid Geothermal Energy Conversion Technology - A Potential Solution for Production of Electricity from Shallow Geothermal Resources. Energy Procedia, 2017, 114, 7107-7117.	1.8	17
22	Injectivity Evaluation for Offshore CO ₂ Sequestration in Marine Sediments. Energy Procedia, 2017, 114, 2921-2932.	1.8	10
23	Response of Integrated CO ₂ Capture and Storage Systems in Saline Aquifers and Fractured Shale Formations to Changes in CO ₂ Capture Costs. Energy Procedia, 2017, 114, 4099-4105.	1.8	0
24	CO ₂ Earth Storage: Enhanced Geothermal Energy and Water Recovery and Energy Storage. Energy Procedia, 2017, 114, 6870-6879.	1.8	17
25	Integrated CO ₂ Storage and Brine Extraction. Energy Procedia, 2017, 114, 6331-6336.	1.8	8
26	Assessment of Sites for CO ₂ Storage and CO ₂ Capture, Utilization, and Storage Systems in Geothermal Reservoirs. Energy Procedia, 2017, 114, 7009-7017.	1.8	5
27	Industrial CO ₂ and Carbon Capture: Near-term Benefit, Long-term Necessity. Energy Procedia, 2017, 114, 7601-7605.	1.8	4
28	Leakage risks of geologic CO ₂ storage and the impacts on the global energy system and climate change mitigation. Climatic Change, 2017, 144, 151-163.	1.7	54
29	Development of robust pressure management strategies for geologic CO ₂ sequestration. International Journal of Greenhouse Gas Control, 2017, 64, 43-59.	2.3	26
30	Multifluid geo-energy systems: Using geologic CO ₂ storage for geothermal energy production and grid-scale energy storage in sedimentary basins. , 2016, 12, 678-696.		41
31	Managing geologic CO ₂ storage with pre-injection brine production: a strategy evaluated with a model of CO ₂ injection at SnÄhvit. Energy and Environmental Science, 2016, 9, 1504-1512.	15.6	50
32	Pre-injection brine production in CO ₂ storage reservoirs: An approach to augment the development, operation, and performance of CCS while generating water. International Journal of Greenhouse Gas Control, 2016, 54, 499-512.	2.3	35
33	The Leakage Risk Monetization Model for Geologic CO ₂ Storage. Environmental Science & Technology, 2016, 50, 4923-4931.	4.6	39
34	Jumpstarting commercial-scale CO ₂ capture and storage with ethylene production and enhanced oil recovery in the US Gulf. , 2015, 5, 241-253.		27
35	Assessment of the Acute and Chronic Health Hazards of Hydraulic Fracturing Fluids. Journal of Occupational and Environmental Hygiene, 2015, 12, 611-624.	0.4	25
36	An examination of geologic carbon sequestration policies in the context of leakage potential. International Journal of Greenhouse Gas Control, 2015, 37, 61-75.	2.3	39

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37	A comparison of electric power output of CO ₂ Plume Geothermal (CPG) and brine geothermal systems for varying reservoir conditions. Applied Energy, 2015, 140, 365-377.	5.1	115
38	National corridors for climate change mitigation: managing industrial CO ₂ emissions in France. , 2014, 4, 262-277.		9
39	An Alternative Pathway for Stimulating Regional Deployment of Carbon Dioxide Capture and Storage. Energy Procedia, 2014, 63, 7215-7224.	1.8	9
40	Physicochemical factors impacting CO ₂ sequestration in depleted shale formations: The case of the Utica shale. Energy Procedia, 2014, 63, 5153-5163.	1.8	15
41	Pre-injection Brine Production for Managing Pressure in Compartmentalized CO ₂ Storage Reservoirs. Energy Procedia, 2014, 63, 5333-5340.	1.8	21
42	Causes and financial consequences of geologic CO ₂ storage reservoir leakage and interference with other subsurface resources. International Journal of Greenhouse Gas Control, 2014, 20, 272-284.	2.3	39
43	Why market rules matter: Optimizing pumped hydroelectric storage when compensation rules differ. Energy Economics, 2014, 46, 10-19.	5.6	38
44	CO ₂ Deserts: Implications of Existing CO ₂ Supply Limitations for Carbon Management. Environmental Science & Technology, 2014, 48, 11713-11720.	4.6	46
45	On the importance of the thermosiphon effect in CPG (CO ₂ plume geothermal) power systems. Energy, 2014, 69, 409-418.	4.5	97
46	Integrating CO ₂ Storage with Geothermal Resources for Dispatchable Renewable Electricity. Energy Procedia, 2014, 63, 7619-7630.	1.8	20
47	Policy implications of Monetized Leakage Risk from Geologic CO ₂ Storage Reservoirs. Energy Procedia, 2014, 63, 6852-6863.	1.8	1
48	Shifting Sands in a CO ₂ Desert: Replacing Extracted CO ₂ with By-product CO ₂ for Use in Enhanced Oil Recovery. Energy Procedia, 2014, 63, 6557-6564.	1.8	1
49	Environmental Indicators of Biofuel Sustainability: What About Context?. Environmental Management, 2013, 51, 291-306.	1.2	112
50	Comparing Scales of Environmental Effects from Gasoline and Ethanol Production. Environmental Management, 2013, 51, 307-338.	1.2	25
51	Advancing Sustainable Bioenergy: Evolving Stakeholder Interests and the Relevance of Research. Environmental Management, 2013, 51, 339-353.	1.2	20
52	The Leakage Impact Valuation (LIV) Method for Leakage from Geologic CO ₂ Storage Reservoirs. Energy Procedia, 2013, 37, 2819-2827.	1.8	13
53	A Methodology for Monetizing Basin-Scale Leakage Risk and Stakeholder Impacts. Energy Procedia, 2013, 37, 4665-4672.	1.8	7
54	Innovation in emerging energy technologies: A case study analysis to inform the path forward for algal biofuels. Energy Policy, 2013, 61, 1595-1607.	4.2	11

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55	Geothermal Energy Production at Geologic CO2 Sequestration sites: Impact of Thermal Drawdown on Reservoir Pressure. Energy Procedia, 2013, 37, 6625-6635.	1.8	24
56	Comparing carbon capture and storage (CCS) with concentrating solar power (CSP): Potentials, costs, risks, and barriers. Energy Policy, 2012, 47, 447-455.	4.2	65
57	Generating candidate networks for optimization: The CO2 capture and storage optimization problem. Computers, Environment and Urban Systems, 2012, 36, 18-29.	3.3	72
58	A Tale of Two Technologies: Hydraulic Fracturing and Geologic Carbon Sequestration. Environmental Science & Technology, 2011, 45, 5075-5076.	4.6	17
59	Optimal Spatial Deployment of CO2 Capture and Storage Given a Price on Carbon. International Regional Science Review, 2011, 34, 285-305.	1.0	52
60	Jumpstarting CCS using refinery CO2 for enhanced oil recovery. Energy Procedia, 2011, 4, 2185-2191.	1.8	16
61	Analysis of cost savings from networking pipelines in CCS infrastructure systems. Energy Procedia, 2011, 4, 2808-2815.	1.8	28
62	A scalable infrastructure model for carbon capture and storage: SimCCS. Energy Policy, 2009, 37, 1052-1060.	4.2	239
63	A comprehensive carbon capture and storage infrastructure model. Energy Procedia, 2009, 1, 1611-1616.	1.8	47
64	Spatial clustering and carbon capture and storage deployment. Energy Procedia, 2009, 1, 1691-1698.	1.8	13
65	Learning about carbon capture and storage: Changing stakeholder perceptions with expert information. Energy Procedia, 2009, 1, 4655-4663.	1.8	19
66	The production of Zn from ZnO in a high-temperature solar decomposition quench process. The scientific framework for the process. Chemical Engineering Science, 1998, 53, 2503-2517.	1.9	160
67	Keeping Up With the Times: Modelling Temporally Phased CO2 Capture and Storage Infrastructure. SSRN Electronic Journal, 0, , .	0.4	0
68	Beyond Regional CCS: Scalable Algorithms for Designing Massive CO2 Capture and Storage Infrastructure. SSRN Electronic Journal, 0, , .	0.4	0
69	Mechanisms of Geologically Stored CO2 for Energy Storage. SSRN Electronic Journal, 0, , .	0.4	0
70	Operational Characteristics of a Geologic CO2 Storage Bulk Energy Storage Technology. SSRN Electronic Journal, 0, , .	0.4	0