Jeffrey M Bielicki

List of Publications by Year
in descending order

70	2,231	236833	233338
papers	citations	25 h-index	45 g-index

77	77	77	2138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A scalable infrastructure model for carbon capture and storage: SimCCS. Energy Policy, 2009, 37, 1052-1060.	4.2	239
2	The production of Zn from ZnO in a high-temperature solar decomposition quench processâ€"I. The scientific framework for the process. Chemical Engineering Science, 1998, 53, 2503-2517.	1.9	160
3	A comparison of electric power output of CO2 Plume Geothermal (CPG) and brine geothermal systems for varying reservoir conditions. Applied Energy, 2015, 140, 365-377.	5.1	115
4	Environmental Indicators of Biofuel Sustainability: What About Context?. Environmental Management, 2013, 51, 291-306.	1.2	112
5	On the importance of the thermosiphon effect in CPG (CO2 plume geothermal) power systems. Energy, 2014, 69, 409-418.	4.5	97
6	Heterogeneity-assisted carbon dioxide storage in marine sediments. Applied Energy, 2018, 225, 876-883.	5.1	89
7	Generating candidate networks for optimization: The CO2 capture and storage optimization problem. Computers, Environment and Urban Systems, 2012, 36, 18-29.	3.3	72
8	An attainable global vision for conservation and human wellâ€being. Frontiers in Ecology and the Environment, 2018, 16, 563-570.	1.9	71
9	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
10	Leakage risks of geologic CO2 storage and the impacts on the global energy system and climate change mitigation. Climatic Change, 2017, 144, 151-163.	1.7	54
11	Optimal Spatial Deployment of CO2 Capture and Storage Given a Price on Carbon. International Regional Science Review, 2011, 34, 285-305.	1.0	52
12	Managing geologic CO₂storage with pre-injection brine production: a strategy evaluated with a model of CO₂injection at SnÃ¸hvit. Energy and Environmental Science, 2016, 9, 1504-1512.	15.6	50
13	A comprehensive carbon capture and storage infrastructure model. Energy Procedia, 2009, 1, 1611-1616.	1.8	47
14	Acclimation and the response of hourly electricity loads to meteorological variables. Energy, 2018, 142, 473-485.	4.5	47
15	CO₂ Deserts: Implications of Existing CO₂ Supply Limitations for Carbon Management. Environmental Science & Technology, 2014, 48, 11713-11720.	4.6	46
16	Multifluid geo-energy systems: Using geologic CO₂storage for geothermal energy production and grid-scale energy storage in sedimentary basins. , 2016, 12, 678-696.		41
17	Causes and financial consequences of geologic CO2 storage reservoir leakage and interference with other subsurface resources. International Journal of Greenhouse Gas Control, 2014, 20, 272-284.	2.3	39
18	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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19	The Leakage Risk Monetization Model for Geologic CO₂ Storage. Environmental Science & Technology, 2016, 50, 4923-4931.	4.6	39
20	Why market rules matter: Optimizing pumped hydroelectric storage when compensation rules differ. Energy Economics, 2014, 46, 10-19.	5.6	38
21	Vulnerability of existing and planned coal-fired power plants in Developing Asia to changes in climate and water resources. Energy and Environmental Science, 2019, 12, 3164-3181.	15.6	38
22	Pre-injection brine production in CO2 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
23	Heat depletion in sedimentary basins and its effect on the design and electric power output of CO2 Plume Geothermal (CPG) systems. Renewable Energy, 2021, 172, 1393-1403.	4.3	30
24	Analysis of cost savings from networking pipelines in CCS infrastructure systems. Energy Procedia, 2011, 4, 2808-2815.	1.8	28
25	Increased Power Generation due to Exothermic Water Exsolution in CO2 Plume Geothermal (CPG) Power Plants. Geothermics, 2020, 88, 101865.	1.5	28
26	Jumpstarting commercialâ€scale CO₂ capture and storage with ethylene production and enhanced oil recovery in the US Gulf. , 2015, 5, 241-253.		27
27	Development of robust pressure management strategies for geologic CO2 sequestration. International Journal of Greenhouse Gas Control, 2017, 64, 43-59.	2.3	26
28	Stakeholder Perspectives on Sustainability in the Food-Energy-Water Nexus. Frontiers in Environmental Science, 2019, 7, .	1.5	26
29	Comparing Scales of Environmental Effects from Gasoline and Ethanol Production. Environmental Management, 2013, 51, 307-338.	1.2	25
30	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
31	Geothermal Energy Production at Geologic CO2 Sequestration sites: Impact of Thermal Drawdown on Reservoir Pressure. Energy Procedia, 2013, 37, 6625-6635.	1.8	24
32	The geospatial and economic viability of CO2 storage in hydrocarbon depleted fractured shale formations. International Journal of Greenhouse Gas Control, 2018, 75, 8-23.	2.3	24
33	The value of bulk energy storage for reducing CO2 emissions and water requirements from regional electricity systems. Energy Conversion and Management, 2019, 181, 674-685.	4.4	24
34	Pre-injection Brine Production for Managing Pressure in Compartmentalized CO2 Storage Reservoirs. Energy Procedia, 2014, 63, 5333-5340.	1.8	21
35	Advancing Sustainable Bioenergy: Evolving Stakeholder Interests and the Relevance of Research. Environmental Management, 2013, 51, 339-353.	1.2	20
36	Integrating CO2 Storage with Geothermal Resources for Dispatchable Renewable Electricity. Energy Procedia, 2014, 63, 7619-7630.	1.8	20

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37	Identifying geologic characteristics and operational decisions to meet global carbon sequestration goals. Energy and Environmental Science, 2020, 13, 5000-5016.	15.6	20
38	Learning about carbon capture and storage: Changing stakeholder perceptions with expert information. Energy Procedia, 2009, 1, 4655-4663.	1.8	19
39	A Tale of Two Technologies: Hydraulic Fracturing and Geologic Carbon Sequestration. Environmental Science & Technology, 2011, 45, 5075-5076.	4.6	17
40	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
41	CO2 Earth Storage: Enhanced Geothermal Energy and Water Recovery and Energy Storage. Energy Procedia, 2017, 114, 6870-6879.	1.8	17
42	Great SCOT! Rapid tool for carbon sequestration science, engineering, and economics. Applied Computing and Geosciences, 2020, 7, 100035.	1.0	17
43	Jumpstarting CCS using refinery CO2 for enhanced oil recovery. Energy Procedia, 2011, 4, 2185-2191.	1.8	16
44	Physicochemical factors impacting CO2 sequestration in depleted shale formations: The case of the Utica shale. Energy Procedia, 2014, 63, 5153-5163.	1.8	15
45	Flexible CO2-plume geothermal (CPG-F): Using geologically stored CO2 to provide dispatchable power and energy storage. Energy Conversion and Management, 2022, 253, 115082.	4.4	15
46	Spatial clustering and carbon capture and storage deployment. Energy Procedia, 2009, 1, 1691-1698.	1.8	13
47	The Leakage Impact Valuation (LIV) Method for Leakage from Geologic CO2 Storage Reservoirs. Energy Procedia, 2013, 37, 2819-2827.	1.8	13
48	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
49	The stationarity of two statistical downscaling methods for precipitation under different choices of crossâ€validation periods. International Journal of Climatology, 2018, 38, e330.	1.5	11
50	Injectivity Evaluation for Offshore CO2 Sequestration in Marine Sediments. Energy Procedia, 2017, 114, 2921-2932.	1.8	10
51	National corridors for climate change mitigation: managing industrial CO₂emissions in France. , 2014, 4, 262-277.		9
52	An Alternative Pathway for Stimulating Regional Deployment of Carbon Dioxide Capture and Storage. Energy Procedia, 2014, 63, 7215-7224.	1.8	9
53	Managing Geologic CO2 Storage with Pre-injection Brine Production in Tandem Reservoirs. Energy Procedia, 2017, 114, 4757-4764.	1.8	9
54	The value of CO2-Bulk energy storage with wind in transmission-constrained electric power systems. Energy Conversion and Management, 2021, 228, 113548.	4.4	9

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55	Integrated CO2 Storage and Brine Extraction. Energy Procedia, 2017, 114, 6331-6336.	1.8	8
56	A Methodology for Monetizing Basin-Scale Leakage Risk and Stakeholder Impacts. Energy Procedia, 2013, 37, 4665-4672.	1.8	7
57	Environmental Consequences of Potential Strategies for China to Prepare for Natural Gas Import Disruptions. Environmental Science & Technology, 2022, 56, 1183-1193.	4.6	6
58	Assessment of Sites for CO2 Storage and CO2 Capture, Utilization, and Storage Systems in Geothermal Reservoirs. Energy Procedia, 2017, 114, 7009-7017.	1.8	5
59	Recovering Rare Earth Elements from Coal Mine Drainage Using Industrial Byproducts: Environmental and Economic Consequences. Environmental Engineering Science, 2022, 39, 770-783.	0.8	5
60	Industrial CO2 and Carbon Capture: Near-term Benefit, Long-term Necessity. Energy Procedia, 2017, 114, 7601-7605.	1.8	4
61	The Value of CO2-Bulk Energy Storage to Reducing CO2 Emissions. Energy Procedia, 2017, 114, 6886-6892.	1.8	3
62	Policy implications of Monetized Leakage Risk from Geologic CO2 Storage Reservoirs. Energy Procedia, 2014, 63, 6852-6863.	1.8	1
63	Shifting Sands in a CO2 Desert: Replacing Extracted CO2 with By-product CO2 for Use in Enhanced Oil Recovery. Energy Procedia, 2014, 63, 6557-6564.	1.8	1
64	Monetizing Leakage Risk with Secondary Trapping in Intervening Stratigraphic Layers. Energy Procedia, 2017, 114, 4256-4261.	1.8	0
65	Response of Integrated CO2 Capture and Storage Systems in Saline Aquifers and Fractured Shale Formations to Changes in CO2 Capture Costs. Energy Procedia, 2017, 114, 4099-4105.	1.8	0
66	Keeping Up With the Times: Modelling Temporally Phased CO2 Capture and Storage Infrastructure. SSRN Electronic Journal, 0, , .	0.4	0
67	Beyond Regional CCS: Scalable Algorithms for Designing Massive CO2 Capture and Storage Infrastructure. SSRN Electronic Journal, 0, , .	0.4	0
68	Mechanisms of Geologically Stored CO2 for Energy Storage. SSRN Electronic Journal, 0, , .	0.4	0
69	The role of environmental law. , 2018, , 298-303.		0
70	Operational Characteristics of a Geologic CO2 Storage Bulk Energy Storage Technology. SSRN Electronic Journal, 0, , .	0.4	0