Erin R Bobicki

List of Publications by Year
in descending order

24 papers	974 citations	687363 13 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	1087 citing authors

#	Article	IF	Citations
1	Carbon capture and storage using alkaline industrial wastes. Progress in Energy and Combustion Science, 2012, 38, 302-320.	31.2	436
2	Ethylene Electrosynthesis: A Comparative Techno-economic Analysis of Alkaline vs Membrane Electrode Assembly vs CO₂â€“COâ€“C₂H₄ Tandems. ACS Energy Letters, 2021, 6, 997-1002.	17.4	129
3	Probing Anisotropic Surface Properties and Interaction Forces of Chrysotile Rods by Atomic Force Microscopy and Rheology. Langmuir, 2014, 30, 10809-10817.	3.5	60
4	3D Printing of Vascular Tubes Using Bioelastomer Prepolymers by Freeform Reversible Embedding. ACS Biomaterials Science and Engineering, 2020, 6, 1333-1343.	5.2	40
5	Effect of microwave pre-treatment on ultramafic nickel ore slurry rheology. Minerals Engineering, 2014, 61, 97-104.	4.3	34
6	Microwave heating of ultramafic nickel ores and mineralogical effects. Minerals Engineering, 2014, 58, 22-25.	4.3	33
7	Slurry rheology in mineral processing unit operations: A critical review. Canadian Journal of Chemical Engineering, 2019, 97, 2102-2120.	1.7	33
8	Microwave heating of magnesium silicate minerals. Powder Technology, 2018, 339, 1-7.	4.2	29
9	Oneâ€Pot Synthesis of Unsaturated Polyester Bioelastomer with Controllable Material Curing for Microscale Designs. Advanced Healthcare Materials, 2019, 8, e1900245.	7.6	23
10	Microwave Treatment of Ultramafic Nickel Ores: Heating Behavior, Mineralogy, and Comminution Effects. Minerals (Basel, Switzerland), 2018, 8, 524.	2.0	22
11	Mineral carbon storage in pre-treated ultramafic ores. Minerals Engineering, 2015, 70, 43-54.	4.3	21
12	CO 2 storage in saline aquifers by dissolution and residual trapping under supercritical conditions: An experimental investigation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 548, 37-45.	4.7	21
13	Adsorption of enhanced oil recovery polymer, schizophyllan, over carbonate minerals. Carbohydrate Polymers, 2020, 240, 116263.	10.2	15
14	A comparative study of biopolymer adsorption on model anisotropic clay surfaces using quartz crystal microbalance with dissipation (QCM-D). Journal of Colloid and Interface Science, 2022, 615, 543-553.	9.4	14
15	Ligand-promoted dissolution of serpentine in ultramafic nickel ores. Minerals Engineering, 2014, 64, 109-119.	4.3	10
16	A comparison study between bioflocculants and PAM for dewatering of ultrafine phyllosilicate clay minerals. Applied Clay Science, 2022, 218, 106409.	5.2	9
17	Diethylenetriamine as a selective pyrrhotite depressant: Properties, application, and mitigation strategies. Canadian Journal of Chemical Engineering, 2021, 99, 1316-1333.	1.7	8
18	Mineral carbonation for serpentine mitigation in nickel processing: a step towards industrial carbon capture and storage. Faraday Discussions, 2021, 230, 172-186.	3.2	8

#	Article	IF	Citations
19	Application of Green additives for enhanced oil recovery: Cellulosic nanocrystals as fluid diversion agents in carbonate reservoirs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 589, 124422.	4.7	7
20	Beneficiation of Nickel from Ultramafic Ores: Using Sodium Citrate as a Green Processing Reagent. Resources, Conservation and Recycling, 2022, 186, 106496.	10.8	6
21	Modulation of soft glassy dynamics in aqueous suspensions of an anisotropic charged swelling clay through pH adjustment. Journal of Colloid and Interface Science, 2022, 606, 860-872.	9.4	4
22	Decarbonization of mineral processing operations: Realizing the potential of carbon capture and utilization in the processing of ultramafic nickel ores. Chemical Engineering Journal, 2022, 433, 134203.	12.7	4
23	Surface interaction between phyllosilicate particles and sustainable polymers in flotation and flocculation. RSC Advances, 2022, 12, 3708-3715.	3.6	4
24	Physical aging in aqueous nematic gels of a swelling nanoclay: sol (phase) to gel (state) transition. Physical Chemistry Chemical Physics, 2021, , .	2.8	0