Dustin McIntyre

List of Publications by Year
in descending order

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40 papers	1,246 citations	430442 18 h-index	414034 32 g-index
40 all docs	40 docs citations	40 times ranked	1226 citing authors

#	Article	IF	Citations
1	U.S. DOE methodology for the development of geologic storage potential for carbon dioxide at the national and regional scale. International Journal of Greenhouse Gas Control, 2011, 5, 952-965.	2.3	222
2	Dissolution-Driven Permeability Reduction of a Fractured Carbonate Caprock. Environmental Engineering Science, 2013, 30, 187-193.	0.8	113
3	Deterioration of a fractured carbonate caprock exposed to CO₂â€acidified brine flow. , 2011, 1, 248-260.		106
4	Alterations of Fractures in Carbonate Rocks by CO₂-Acidified Brines. Environmental Science & Technology, 2015, 49, 10226-10234.	4.6	93
5	CO ₂ flooding properties of Liujiagou sandstone: influence of subâ€core scale structure heterogeneity. , 2014, 4, 400-418.		64
6	Detection of rare earth elements in Powder River Basin sub-bituminous coal ash using laser-induced breakdown spectroscopy (LIBS). Fuel, 2016, 163, 129-132.	3.4	47
7	Determination of Rare Earth Elements in Geological Samples Using Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2018, 72, 114-121.	1.2	46
8	Grain boundary segregation and thermoelectric performance enhancement of bismuth doped calcium cobaltite. Journal of the European Ceramic Society, 2016, 36, 601-607.	2.8	41
9	Synthesis and characterization of a thixotropic coalâ€“water slurry for use as a liquid fuel. Fuel Processing Technology, 2014, 127, 105-110.	3.7	35
10	Determination of elemental composition of shale rocks by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 122, 9-14.	1.5	33
11	Laser ablation molecular isotopic spectrometry of carbon isotopes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 106-112.	1.5	29
12	Effect of Sodium Chloride Concentration on Elemental Analysis of Brines by Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2014, 68, 213-221.	1.2	28
13	Matrix effect of sodium compounds on the determination of metal ions in aqueous solutions by underwater laser-induced breakdown spectroscopy. Applied Optics, 2015, 54, 6071.	2.1	28
14	Laser induced breakdown spectroscopy: A potential tool for atmospheric carbon dioxide measurement. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 68, 65-70.	1.5	27
15	Analysis of slags using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 115, 40-45.	1.5	25
16	Qualitative Analysis of Dairy and Powder Milk Using Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2018, 72, 89-101.	1.2	25
17	Univariate and multivariate analyses of rare earth elements by laser-induced breakdown spectroscopy. Applied Optics, 2017, 56, 2280.	2.1	25
18	Study of atomic and molecular emission spectra of Sr by laser induced breakdown spectroscopy (LIBS). Applied Optics, 2015, 54, 10264.	2.1	24

#	Article	IF	Citations
19	Evaluation of Optical Depths and Self-Absorption of Strontium and Aluminum Emission Lines in Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2017, 71, 640-650.	1.2	23
20	Laser-Induced Breakdown Spectroscopy (LIBS) of a High-Pressure CO₂â€“Water Mixture: Application to Carbon Sequestration. Applied Spectroscopy, 2014, 68, 997-1003.	1.2	21
21	Development of a subsurface LIBS sensor for in situ groundwater quality monitoring with applications in CO2 leak sensing in carbon sequestration. Scientific Reports, 2019, 9, 4430.	1.6	18
22	Measurement of Eu and Yb in aqueous solutions by underwater laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 137, 8-12.	1.5	17
23	In situ measurements of calcium carbonate dissolution under rising CO2 pressure using underwater laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2016, 31, 1374-1380.	1.6	16
24	Evaluation of analytical performance of double pulse laser-induced breakdown spectroscopy for the detection of rare earth elements. Optics and Laser Technology, 2020, 126, 106110.	2.2	16
25	Comparative Study of Elemental Nutrients in Organic and Conventional Vegetables Using Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2017, 71, 686-698.	1.2	15
26	Investigating the CO2 pressure effect on underwater laser-induced plasma emission of Eu and Yb. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 149, 42-47.	1.5	14
27	Evaluating Laser-Induced Breakdown Spectroscopy Sensor Technology for Rapid Source Characterization of Rare Earth Elements. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	12
28	Phase evolution and thermoelectric performance of calcium cobaltite upon high temperature aging. Ceramics International, 2015, 41, 11069-11074.	2.3	11
29	Quantification of dissolved metals in high-pressure CO2-water solutions by underwater laser-induced breakdown spectroscopy. Optics and Laser Technology, 2018, 108, 53-58.	2.2	11
30	Mineral carbonate dissolution with increasing CO2 pressure measured by underwater laser induced breakdown spectroscopy and its application in carbon sequestration. Talanta, 2019, 205, 120170.	2.9	11
31	Scope of future development in LIBS. , 2020, , 581-590.		8
32	LIBS application to liquid samples. , 2020, , 231-246.		7
33	Determination of As, Hg, S, and Se in liquid jets by laser-based optical diagnostic technique. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	7
34	Application of laser-induced breakdown spectroscopy in carbon sequestration research and development. Pramana - Journal of Physics, 2014, 83, 179-188.	0.9	6
35	Influence of CO_2 pressure on the emission spectra and plasma parameters in underwater laser-induced breakdown spectroscopy. Optics Letters, 2016, 41, 5458.	1.7	6
36	Analysis of charcoal blast furnace slags by laser-induced breakdown spectroscopy. Applied Optics, 2017, 56, 7789.	0.9	5

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37	Discovering the feasibility of using the radiation forces for recovering rare earth elements from coal power plant by-products. Advanced Powder Technology, 2015, 26, 1465-1472.	2.0	4
38	Evaluation of a commercially available passively Q-switched Nd:YAG laser with LiF:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0001.gif" overflow="scroll"><mml:msubsup subscriptshift="90%" superscriptshift="90%"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mo form="prefix">-</mml:mo></mml:mrow></mml:msubsup></mml:math> saturable absorber for laser-induced breakdown spectroscopy. Optics and Laser Technology, 2016, 79, 146-152.	2.2	4
39	Laser-Induced Breakdown Spectroscopy. , 2018, , 265-282.		2
40	LIBS application to powder samples. , 2020, , 247-262.		1