

Dustin McIntyre

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,246
citations

430754

18
h-index

414303

32
g-index

40
all docs

40
docs citations

40
times ranked

1226
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Scope of future development in LIBS. , 2020, , 581-590.		8
3	LIBS application to liquid samples. , 2020, , 231-246.		7
4	LIBS application to powder samples. , 2020, , 247-262.		1
5	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
6	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
7	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
8	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
9	Determination of Rare Earth Elements in Geological Samples Using Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2018, 72, 114-121.	1.2	46
10	Qualitative Analysis of Dairy and Powder Milk Using Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2018, 72, 89-101.	1.2	25
11	Laser-Induced Breakdown Spectroscopy. , 2018, , 265-282.		2
12	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
13	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
14	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
15	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
16	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
17	Analysis of charcoal blast furnace slags by laser-induced breakdown spectroscopy. Applied Optics, 2017, 56, 7789.	0.9	5
18	Univariate and multivariate analyses of rare earth elements by laser-induced breakdown spectroscopy. Applied Optics, 2017, 56, 2280.	2.1	25

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19	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
20	In situ measurements of calcium carbonate dissolution under rising CO ₂ pressure using underwater laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2016, 31, 1374-1380.	1.6	16
21	Analysis of slags using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 115, 40-45.	1.5	25
22	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
23	Evaluation of a commercially available passively Q-switched Nd:YAG laser with LiF saturable absorber for laser-induced breakdown spectroscopy. Optics and Laser Technology, 2016, 79, 146-152.	2.2	4
24	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
25	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
26	Phase evolution and thermoelectric performance of calcium cobaltite upon high temperature aging. Ceramics International, 2015, 41, 11069-11074.	2.3	11
27	Study of atomic and molecular emission spectra of Sr by laser induced breakdown spectroscopy (LIBS). Applied Optics, 2015, 54, 10264.	2.1	24
28	Alterations of Fractures in Carbonate Rocks by CO ₂ -Acidified Brines. Environmental Science & Technology, 2015, 49, 10226-10234.	4.6	93
29	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
30	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
31	Laser ablation molecular isotopic spectrometry of carbon isotopes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 106-112.	1.5	29
32	Laser-Induced Breakdown Spectroscopy (LIBS) of a High-Pressure CO ₂ -Water Mixture: Application to Carbon Sequestration. Applied Spectroscopy, 2014, 68, 997-1003.	1.2	21
33	CO ₂ flooding properties of Liujiagou sandstone: influence of sub-core scale structure heterogeneity. , 2014, 4, 400-418.		64
34	Synthesis and characterization of a thixotropic coal-water slurry for use as a liquid fuel. Fuel Processing Technology, 2014, 127, 105-110.	3.7	35
35	Application of laser-induced breakdown spectroscopy in carbon sequestration research and development. Pramana - Journal of Physics, 2014, 83, 179-188.	0.9	6
36	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

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37	Dissolution-Driven Permeability Reduction of a Fractured Carbonate Caprock. Environmental Engineering Science, 2013, 30, 187-193.	0.8	113
38	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
39	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
40	Deterioration of a fractured carbonate caprock exposed to CO ₂ -acidified brine flow. , 2011, 1, 248-260.		106