Ronger Zheng

List of Publications by Year
in descending order

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43 papers	834 citations	566801 15 h-index	500791 28 g-index
43 all docs	43 docs citations	43 times ranked	926 citing authors

#	Article	IF	Citations
1	Powerful and Tunable THz Emitters Based on the Fe/Pt Magnetic Heterostructure. Advanced Optical Materials, 2016, 4, 1944-1949.	3.6	157
2	Three-dimensional elemental imaging of Li-ion solid-state electrolytes using fs-laser induced breakdown spectroscopy (LIBS). Journal of Analytical Atomic Spectrometry, 2015, 30, 2295-2302.	1.6	73
3	Study of pressure effects on laser induced plasma in bulk seawater. Journal of Analytical Atomic Spectrometry, 2014, 29, 169-175.	1.6	67
4	Development of a compact underwater laser-induced breakdown spectroscopy (LIBS) system and preliminary results in sea trials. Applied Optics, 2017, 56, 8196.	0.9	61
5	Stabilization of laser-induced plasma in bulk water using large focusing angle. Applied Physics Letters, 2016, 109, .	1.5	47
6	Improvement in the analytical performance of underwater LIBS signals by exploiting the plasma image information. Journal of Analytical Atomic Spectrometry, 2020, 35, 366-376.	1.6	30
7	Elemental analysis of powders with surface-assisted thin film laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 124, 16-24.	1.5	28
8	Quantitative analysis of lead in aqueous solutions by ultrasonic nebulizer assisted laser induced breakdown spectroscopy. Frontiers of Physics, 2016, 11, 1.	2.4	27
9	Trace analysis of polycyclic aromatic hydrocarbons using calixarene layered gold colloid film as substrates for surfaceâ€enhanced Raman scattering. Journal of Raman Spectroscopy, 2013, 44, 41-46.	1.2	26
10	An improved selfâ€assembly gold colloid film as surfaceâ€enhanced Raman substrate for detection of traceâ€level polycyclic aromatic hydrocarbons in aqueous solution. Journal of Raman Spectroscopy, 2012, 43, 1354-1359.	1.2	22
11	Development and Field Tests of a Deep-Sea Laser-Induced Breakdown Spectroscopy (LIBS) System for Solid Sample Analysis in Seawater. Sensors, 2020, 20, 7341.	2.1	20
12	Laser-induced plasma in water at high pressures up to 40 MPa: A time-resolved study. Optics Express, 2020, 28, 18122.	1.7	18
13	Laser-induced plasma and laser-induced breakdown spectroscopy (LIBS) in China: The challenge and the opportunity. Frontiers of Physics, 2012, 7, 647-648.	2.4	17
14	Study of interpulse delay effects on orthogonal dual-pulse laser-induced breakdown spectroscopy in bulk seawater. Journal of Analytical Atomic Spectrometry, 2020, 35, 2351-2357.	1.6	17
15	Normalization of underwater laser-induced breakdown spectroscopy using acoustic signals measured by a hydrophone. Applied Optics, 2021, 60, 1595.	0.9	17
16	Investigation of Two Novel Approaches for Detection of Sulfate Ion and Methane Dissolved in Sediment Pore Water Using Raman Spectroscopy. Sensors, 2015, 15, 12377-12388.	2.1	15
17	Investigation of laser-induced plasma characteristics in bulk water under different focusing arrangements. Applied Optics, 2018, 57, 1640.	0.9	15
18	Plasma condensation effect induced by ambient pressure in laser-induced breakdown spectroscopy. Applied Physics Express, 2014, 7, 032402.	1.1	14

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19	A New Approach of Oil Spill Detection Using Time-Resolved LIF Combined with Parallel Factors Analysis for Laser Remote Sensing. Sensors, 2016, 16, 1347.	2.1	14
20	Quantitation improvement of underwater laser induced breakdown spectroscopy by using self-absorption correction based on plasma images. Analytica Chimica Acta, 2022, 1195, 339423.	2.6	13
21	Signal enhancement in underwater long-pulse laser-induced breakdown spectroscopy for the analysis of bulk water. Journal of Analytical Atomic Spectrometry, 2021, 36, 1170-1179.	1.6	12
22	Comprehensive effects of oceanic pressure and temperature on in situ LIBS signals. Journal of Analytical Atomic Spectrometry, 2021, 36, 2660-2668.	1.6	12
23	EXPRESS: Effects of Ambient Temperature on Laser-Induced Plasma in Bulk Water. Applied Spectroscopy, 2019, 73, 000370281985635.	1.2	9
24	Analysis and Modeling Methodologies for Heat Exchanges of Deep-Sea In Situ Spectroscopy Detection System Based on ROV. Sensors, 2018, 18, 2729.	2.1	8
25	Spatiotemporal and spectroscopic investigations of the secondary plasma generated during double-pulse laser-induced breakdown in bulk water. Journal of Analytical Atomic Spectrometry, 2020, 35, 2880-2892.	1.6	8
26	Efficient detection of emission lines for H and O and the use as an internal standard for underwater LIBS. Journal of Analytical Atomic Spectrometry, 2021, 36, 345-351.	1.6	8
27	A Portable Tunable Diode Laser Absorption Spectroscopy System for Dissolved CO2 Detection Using a High-Efficiency Headspace Equilibrator. Sensors, 2021, 21, 1723.	2.1	8
28	A Direct Bicarbonate Detection Method Based on a Near-Concentric Cavity-Enhanced Raman Spectroscopy System. Sensors, 2017, 17, 2784.	2.1	7
29	Simultaneous detection of a submerged Cu target and bulk water by long-pulse laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2021, 36, 1960-1968.	1.6	7
30	Investigation of laser-induced bubble dynamics in water at high hydrostatic pressures. Optics Express, 0, , .	1.7	7
31	An USV-based laser fluorosensor for oil spill detection. , 2016, , .		6
32	Depth Profiling Investigation of Seawater Using Combined Multi-Optical Spectrometry. Applied Spectroscopy, 2020, 74, 563-570.	1.2	6
33	Spectral characteristics of underwater laser-induced breakdown spectroscopy under high-pressure conditions. Plasma Science and Technology, 2020, 22, 074004.	0.7	6
34	A new approach for baseline correction in laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2022, 37, 1134-1140.	1.6	6
35	Temperature Measurement of Laser-Induced Plasmas from the Intensity Ratio of Two Lines Emitted from Different Elements with the Same Ionization Degree. Applied Spectroscopy, 2014, 68, 1085-1092.	1.2	5
36	Concentration Determination of Copper in Aqueous Solution Using Deposition-Assisted Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2015, 69, 1412-1416.	1.2	5

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37	Pressure effects on underwater laser-induced breakdown spectroscopy: an interpretation with self-absorption. Journal of Analytical Atomic Spectrometry, 2021, 36, 644-653.	1.6	5
38	Development of an Easy-to-Operate Underwater Raman System for Deep-Sea Cold Seep and Hydrothermal Vent In Situ Detection. Sensors, 2021, 21, 5090.	2.1	4
39	Detection improvement of laser-induced breakdown spectroscopy using the flame generated from alcohol-solution mixtures. Optics Express, 2019, 27, 29896.	1.7	4
40	Underwater In Situ Dissolved Gas Detection Based on Multi-Reflection Raman Spectroscopy. Sensors, 2021, 21, 4831.	2.1	3
41	Design and reliability analysis for underwater control system in OUC-Raman instrument node of seafloor observatory network. , 2016, , .		0
42	Development of a new hybrid Raman insertion probe for deep-ocean science. , 2016, , .		0
43	Preliminary investigation into feasibility of dissolved methane measurement using cavity ringdown spectroscopy technique. Frontiers of Physics, 2016, 11, 1.	2.4	0