

# Ronger Zheng

## List of Publications by Year in descending order

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43  
papers

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citations

566801

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500791

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all docs

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docs citations

43  
times ranked

926  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitation improvement of underwater laser induced breakdown spectroscopy by using self-absorption correction based on plasma images. <i>Analytica Chimica Acta</i> , 2022, 1195, 339423.	2.6	13
2	A new approach for baseline correction in laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1134-1140.	1.6	6
3	Efficient detection of emission lines for H and O and the use as an internal standard for underwater LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 345-351.	1.6	8
4	Simultaneous detection of a submerged Cu target and bulk water by long-pulse laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1960-1968.	1.6	7
5	Signal enhancement in underwater long-pulse laser-induced breakdown spectroscopy for the analysis of bulk water. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1170-1179.	1.6	12
6	Pressure effects on underwater laser-induced breakdown spectroscopy: an interpretation with self-absorption. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 644-653.	1.6	5
7	Normalization of underwater laser-induced breakdown spectroscopy using acoustic signals measured by a hydrophone. <i>Applied Optics</i> , 2021, 60, 1595.	0.9	17
8	A Portable Tunable Diode Laser Absorption Spectroscopy System for Dissolved CO <sub>2</sub> Detection Using a High-Efficiency Headspace Equilibrator. <i>Sensors</i> , 2021, 21, 1723.	2.1	8
9	Development of an Easy-to-Operate Underwater Raman System for Deep-Sea Cold Seep and Hydrothermal Vent In Situ Detection. <i>Sensors</i> , 2021, 21, 5090.	2.1	4
10	Underwater In Situ Dissolved Gas Detection Based on Multi-Reflection Raman Spectroscopy. <i>Sensors</i> , 2021, 21, 4831.	2.1	3
11	Comprehensive effects of oceanic pressure and temperature on <i>in situ</i> LIBS signals. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2660-2668.	1.6	12
12	Spatiotemporal and spectroscopic investigations of the secondary plasma generated during double-pulse laser-induced breakdown in bulk water. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2880-2892.	1.6	8
13	Study of interpulse delay effects on orthogonal dual-pulse laser-induced breakdown spectroscopy in bulk seawater. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2351-2357.	1.6	17
14	Depth Profiling Investigation of Seawater Using Combined Multi-Optical Spectrometry. <i>Applied Spectroscopy</i> , 2020, 74, 563-570.	1.2	6
15	Spectral characteristics of underwater laser-induced breakdown spectroscopy under high-pressure conditions. <i>Plasma Science and Technology</i> , 2020, 22, 074004.	0.7	6
16	Improvement in the analytical performance of underwater LIBS signals by exploiting the plasma image information. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 366-376.	1.6	30
17	Laser-induced plasma in water at high pressures up to 40 MPa: A time-resolved study. <i>Optics Express</i> , 2020, 28, 18122.	1.7	18
18	Development and Field Tests of a Deep-Sea Laser-Induced Breakdown Spectroscopy (LIBS) System for Solid Sample Analysis in Seawater. <i>Sensors</i> , 2020, 20, 7341.	2.1	20

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19	EXPRESS: Effects of Ambient Temperature on Laser-Induced Plasma in Bulk Water. Applied Spectroscopy, 2019, 73, 000370281985635.	1.2	9
20	Detection improvement of laser-induced breakdown spectroscopy using the flame generated from alcohol-solution mixtures. Optics Express, 2019, 27, 29896.	1.7	4
21	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
22	Investigation of laser-induced plasma characteristics in bulk water under different focusing arrangements. Applied Optics, 2018, 57, 1640.	0.9	15
23	A Direct Bicarbonate Detection Method Based on a Near-Concentric Cavity-Enhanced Raman Spectroscopy System. Sensors, 2017, 17, 2784.	2.1	7
24	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
25	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
26	An USV-based laser fluorosensor for oil spill detection. , 2016, , .		6
27	Stabilization of laser-induced plasma in bulk water using large focusing angle. Applied Physics Letters, 2016, 109, .	1.5	47
28	Design and reliability analysis for underwater control system in OUC-Raman instrument node of seafloor observatory network. , 2016, , .		0
29	Development of a new hybrid Raman insertion probe for deep-ocean science. , 2016, , .		0
30	Powerful and Tunable THz Emitters Based on the Fe/Pt Magnetic Heterostructure. Advanced Optical Materials, 2016, 4, 1944-1949.	3.6	157
31	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
32	Preliminary investigation into feasibility of dissolved methane measurement using cavity ringdown spectroscopy technique. Frontiers of Physics, 2016, 11, 1.	2.4	0
33	Quantitative analysis of lead in aqueous solutions by ultrasonic nebulizer assisted laser induced breakdown spectroscopy. Frontiers of Physics, 2016, 11, 1.	2.4	27
34	Concentration Determination of Copper in Aqueous Solution Using Deposition-Assisted Laser-Induced Breakdown Spectroscopy (LIBS). Applied Spectroscopy, 2015, 69, 1412-1416.	1.2	5
35	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
36	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

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37	Study of pressure effects on laser induced plasma in bulk seawater. Journal of Analytical Atomic Spectrometry, 2014, 29, 169-175.	1.6	67
38	Plasma condensation effect induced by ambient pressure in laser-induced breakdown spectroscopy. Applied Physics Express, 2014, 7, 032402.	1.1	14
39	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
40	Trace analysis of polycyclic aromatic hydrocarbons using calixarene layered gold colloid film as substrates for surface-enhanced Raman scattering. Journal of Raman Spectroscopy, 2013, 44, 41-46.	1.2	26
41	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
42	An improved self-assembly gold colloid film as surface-enhanced Raman substrate for detection of trace-level polycyclic aromatic hydrocarbons in aqueous solution. Journal of Raman Spectroscopy, 2012, 43, 1354-1359.	1.2	22
43	Investigation of laser-induced bubble dynamics in water at high hydrostatic pressures. Optics Express, 0, , .	1.7	7