

# Rizwan Ahmed

## List of Publications by Year in descending order

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58  
papers

1,188  
citations

331670

21  
h-index

414414

32  
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58  
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58  
docs citations

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times ranked

964  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Lakhra Coal by Calibration Free Laser-Induced Breakdown Spectroscopy (CF-LIBS) and Comparison of Self-Absorption Correction Procedures. <i>Analytical Letters</i> , 2022, 55, 11-23.	1.8	9
2	Determination of Micronutrients and Toxic Elements in <i>Moringa Oleifera</i> Leaves by Calibration Free Laser-Induced Breakdown Spectroscopy (LIBS). <i>Analytical Letters</i> , 2022, 55, 755-769.	1.8	6
3	Elemental Analysis of Cement and Its Components by Laser-Induced Breakdown Spectroscopy (LIBS) and Laser Ablation Time of Flight Mass Spectrometry (LA-TOF-MS). <i>Analytical Letters</i> , 2022, 55, 904-916.	1.8	9
4	Spectral synthesis of multimode lasers to the Fourier limit in integrated Fabry-Perot diamond resonators. <i>Optica</i> , 2022, 9, 317.	9.3	14
5	Spectrochemical analysis of Pakistani bakery breads using laser induced breakdown spectroscopy. <i>Optik</i> , 2021, 226, 165743.	2.9	9
6	Comparative Study of the Emission Enhancement Due to Target Heating and Laser Energy on the Laser-Produced Copper-Zinc Alloy Plasma. <i>Analytical Letters</i> , 2021, 54, 1269-1283.	1.8	4
7	Elemental Analysis of Plants Cultivated in Saline Soil by Laser-Induced Breakdown Spectroscopy (LIBS). <i>Analytical Letters</i> , 2021, 54, 1351-1365.	1.8	6
8	Detection of lead in soil implying sample heating and laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2021, 60, 452.	1.8	12
9	Electric-field induced fluctuations in laser generated plasma plume. <i>Plasma Science and Technology</i> , 2021, 23, 045505.	1.5	4
10	Surface modified multifaceted nanocarriers for oral non-conventional cancer therapy; synthesis and evaluation. <i>Materials Science and Engineering C</i> , 2021, 123, 111940.	7.3	12
11	Classification of Nephrite Using Calibration-Free Laser Induced Breakdown Spectroscopy (CF-LIBS) with Comparison to Laser Ablation-Time-of-Flight-Mass Spectrometry (LA-TOF-MS). <i>Analytical Letters</i> , 2020, 53, 203-216.	1.8	9
12	Determination of Major Inorganic Nutrients in Maize Tissues by Calibration-Free Laser Induced Breakdown Spectroscopy. <i>Analytical Letters</i> , 2020, 53, 1328-1341.	1.8	9
13	The electron affinity of astatine. <i>Nature Communications</i> , 2020, 11, 3824.	12.8	42
14	Amelioration in the Detection of Chlorine Using Electric Field Assisted LIBS. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 809-818.	2.4	3
15	Calibration-free analysis of immersed metal alloys using long-pulse-duration laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 157, 84-90.	2.9	24
16	Analysis of lead and copper in soil samples by laser-induced breakdown spectroscopy under external magnetic field. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	26
17	Analysis of Soil by Magnetic Field Assisted Calibration-Free Laser Induced Breakdown Spectroscopy (CF-LIBS) and Laser Ablation Time-of-Flight Mass Spectrometry (LA-TOF-MS). <i>Analytical Letters</i> , 2019, 52, 2312-2328.	1.8	13
18	On the detection of heavy elements in the <i>Euphorbia indica</i> plant using laser-induced breakdown spectroscopy and laser ablation time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 954-962.	3.0	21

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19	Elemental Analysis of Cement by Calibration-Free Laser Induced Breakdown Spectroscopy (CF-LIBS) and Comparison with Laser Ablation " Time-of-Flight " Mass Spectrometry (LA-TOF-MS), Energy Dispersive X-Ray Spectrometry (EDX), X-Ray Fluorescence Spectroscopy (XRF), and Proton Induced X-Ray Emission Spectrometry (PIXE). <i>Analytical Letters</i> , 2019, 52, 1951-1965.	1.8	24
20	Magnetic field-induced signal enhancement in laser-produced lead plasma. <i>Laser and Particle Beams</i> , 2019, 37, 67-78.	1.0	6
21	Emission intensity enhancement by re-ionization of Nd:YAG laser-produced plasma using a nitrogen laser. <i>Laser Physics</i> , 2019, 29, 055701.	1.2	7
22	Signal Intensity Enhancement by Cavity Confinement of Laser-Produced Plasma. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 1616-1620.	1.3	14
23	Quantitative analysis of a brass alloy using CF-LIBS and a laser ablation time-of-flight mass spectrometer. <i>Laser Physics</i> , 2018, 28, 016002.	1.2	21
24	Analytical Analysis of Different Karats of Gold Using Laser Induced Breakdown Spectroscopy (LIBS) and Laser Ablation Time of Flight Mass Spectrometer (LA-TOF-MS). <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 207-222.	2.4	37
25	Magnetic field enhanced detection of heavy metals in soil using laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 148, 143-151.	2.9	60
26	Elemental composition analysis of granite rocks using LIBS and LA-TOF-MS. <i>Applied Optics</i> , 2018, 57, 4985.	1.8	29
27	Qualitative and quantitative analyses of copper ores collected from Baluchistan, Pakistan using LIBS and LA-TOF-MS. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	28
28	Optical Spectroscopic Study of Laser-Produced Aluminum Plasma. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2920-2929.	1.3	4
29	Time integrated optical emission studies of the laser produced germanium plasma. <i>Laser Physics</i> , 2017, 27, 046101.	1.2	10
30	A comparative study of Cu"Ni Alloy using LIBS, LA-TOF, EDX, and XRF. <i>Laser and Particle Beams</i> , 2017, 35, 1-9.	1.0	79
31	Laser ionization time of flight mass spectrometer for isotope mass detection and elemental analysis of materials. <i>Laser Physics</i> , 2017, 27, 086001.	1.2	18
32	On the elemental analysis of different cigarette brands using laser induced breakdown spectroscopy and laser-ablation time of flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 136, 39-44.	2.9	34
33	An inexpensive technique for the time resolved laser induced plasma spectroscopy. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	31
34	Surface-Induced Phase of Tyrian Purple (6,6"2-Dibromoindigo): Thin Film Formation and Stability. <i>Crystal Growth and Design</i> , 2016, 16, 3647-3655.	3.0	15
35	A Comparative Study of Calibration Free Methods for the Elemental Analysis by Laser Induced Breakdown Spectroscopy. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 1287-1299.	2.4	42
36	Spatial diagnostics of the laser-produced tin plasma in air. <i>Laser Physics</i> , 2016, 26, 076001.	1.2	18

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37	On the use of laser induced breakdown spectroscopy to characterize the naturally existing crystal in Pakistan and its optical emission spectrum. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 111, 80-86.	2.9	35
38	Effects of laser wavelengths and pulse energy ratio on the emission enhancement in dual pulse LIBS. Laser Physics Letters, 2015, 12, 066102.	1.4	39
39	Grain Size and Interface Dependence of Bias Stress Stability of n-Type Organic Field Effect Transistors. ACS Applied Materials & Interfaces, 2015, 7, 22380-22384.	8.0	14
40	A comparative study of enhanced emission in double pulse laser induced breakdown spectroscopy. Optics and Laser Technology, 2015, 65, 113-118.	4.6	24
41	Impact of morphology on charge carrier mobility in top gate C <sub>60</sub> organic field effect transistors. , 2014, , .		0
42	The role of metal contacts in the stability of n-type organic field effect transistors. Applied Physics A: Materials Science and Processing, 2014, 117, 2235-2240.	2.3	6
43	Photosensitivity of top gate C <sub>60</sub> based OFETs: Potential applications for high efficiency organic photodetector. Organic Electronics, 2014, 15, 175-181.	2.6	25
44	Air stability of C <sub>60</sub> based n-type OFETs. Synthetic Metals, 2014, 188, 136-139.	3.9	15
45	Stability of low voltage n-type organic field effect transistors. Synthetic Metals, 2014, 197, 18-22.	3.9	2
46	Ameliorating the bias stress stability of n-type OFETs. Organic Electronics, 2014, 15, 3203-3210.	2.6	11
47	Geometrical Structure and Interface Dependence of Bias Stress Induced Threshold Voltage Shift in C <sub>60</sub> -Based OFETs. ACS Applied Materials & Interfaces, 2014, 6, 15148-15153.	8.0	13
48	Anisotropic Strain Effect on Electron Transport in C <sub>60</sub> Organic Field Effect transistors. Materials Research Society Symposia Proceedings, 2013, 1501, 1.	0.1	3
49	Strain induced anisotropic effect on electron mobility in C <sub>60</sub> based organic field effect transistors. Applied Physics Letters, 2012, 101, 083305.	3.3	44
50	Reproducibility and stability of C <sub>60</sub> based organic field effect transistor. Synthetic Metals, 2012, 161, 2562-2565.	3.9	13
51	A comparative study of single and double pulse of laser induced breakdown spectroscopy of silver. Physics of Plasmas, 2011, 18, .	1.9	73
52	High mobility, low voltage operating C <sub>60</sub> based n-type organic field effect transistors. Synthetic Metals, 2011, 161, 2058-2062.	3.9	48
53	Laser excited population redistribution in the 2p <sup>5</sup> 3p multiplet in neon. Optics Communications, 2011, 284, 2872-2875.	2.1	1
54	On the Optimization for Enhanced Dual-Pulse Laser-Induced Breakdown Spectroscopy. IEEE Transactions on Plasma Science, 2010, 38, 2052-2055.	1.3	31

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55	AMPLITUDE CONTROL OF SPONTANEOUS EMISSION. International Journal of Modern Physics B, 2009, 23, 5143-5154.	2.0	0
56	A comparative study of single and double pulse laser induced breakdown spectroscopy. Journal of Applied Physics, 2009, 106, .	2.5	71
57	The study of the $1s4\pi2p$ optogalvanic transients in a neon discharge plasma. Optics Communications, 2009, 282, 2532-2538.	2.1	8
58	Control of spontaneous emission in a five-level system. Journal of Russian Laser Research, 2008, 29, 227-236.	0.6	3