

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
all docs

58
docs citations

58
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A comparative study of single and double pulse of laser induced breakdown spectroscopy of silver. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	73
3	A comparative study of single and double pulse laser induced breakdown spectroscopy. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	71
4	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
5	High mobility, low voltage operating C60 based n-type organic field effect transistors. <i>Synthetic Metals</i> , 2011, 161, 2058-2062.	3.9	48
6	Strain induced anisotropic effect on electron mobility in C60 based organic field effect transistors. <i>Applied Physics Letters</i> , 2012, 101, 083305.	3.3	44
7	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
8	The electron affinity of astatine. <i>Nature Communications</i> , 2020, 11, 3824.	12.8	42
9	Effects of laser wavelengths and pulse energy ratio on the emission enhancement in dual pulse LIBS. <i>Laser Physics Letters</i> , 2015, 12, 066102.	1.4	39
10	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
11	On the use of laser induced breakdown spectroscopy to characterize the naturally existing crystal in Pakistan and its optical emission spectrum. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 111, 80-86.	2.9	35
12	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
13	On the Optimization for Enhanced Dual-Pulse Laser-Induced Breakdown Spectroscopy. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 2052-2055.	1.3	31
14	An inexpensive technique for the time resolved laser induced plasma spectroscopy. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	31
15	Elemental composition analysis of granite rocks using LIBS and LA-TOF-MS. <i>Applied Optics</i> , 2018, 57, 4985.	1.8	29
16	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
17	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
18	Photosensitivity of top gate C60 based OFETs: Potential applications for high efficiency organic photodetector. <i>Organic Electronics</i> , 2014, 15, 175-181.	2.6	25

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19	A comparative study of enhanced emission in double pulse laser induced breakdown spectroscopy. <i>Optics and Laser Technology</i> , 2015, 65, 113-118.	4.6	24
20	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
21	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
22	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
23	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
24	Spatial diagnostics of the laser-produced tin plasma in air. <i>Laser Physics</i> , 2016, 26, 076001.	1.2	18
25	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
26	Air stability of C60 based n-type OFETs. <i>Synthetic Metals</i> , 2014, 188, 136-139.	3.9	15
27	Surface-Induced Phase of Tyrian Purple (6,6-Dibromoindigo): Thin Film Formation and Stability. <i>Crystal Growth and Design</i> , 2016, 16, 3647-3655.	3.0	15
28	Grain Size and Interface Dependence of Bias Stress Stability of n-Type Organic Field Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22380-22384.	8.0	14
29	Signal Intensity Enhancement by Cavity Confinement of Laser-Produced Plasma. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 1616-1620.	1.3	14
30	Spectral synthesis of multimode lasers to the Fourier limit in integrated Fabry-Perot diamond resonators. <i>Optica</i> , 2022, 9, 317.	9.3	14
31	Reproducibility and stability of C60 based organic field effect transistor. <i>Synthetic Metals</i> , 2012, 161, 2562-2565.	3.9	13
32	Geometrical Structure and Interface Dependence of Bias Stress Induced Threshold Voltage Shift in C60-Based OFETs. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15148-15153.	8.0	13
33	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
34	Detection of lead in soil implying sample heating and laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2021, 60, 452.	1.8	12
35	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
36	Ameliorating the bias stress stability of n-type OFETs. <i>Organic Electronics</i> , 2014, 15, 3203-3210.	2.6	11

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37	Time integrated optical emission studies of the laser produced germanium plasma. Laser Physics, 2017, 27, 046101.	1.2	10
38	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). Analytical Letters, 2020, 53, 203-216.	1.8	9
39	Determination of Major Inorganic Nutrients in Maize Tissues by Calibration-Free Laser Induced Breakdown Spectroscopy. Analytical Letters, 2020, 53, 1328-1341.	1.8	9
40	Spectrochemical analysis of Pakistani bakery breads using laser induced breakdown spectroscopy. Optik, 2021, 226, 165743.	2.9	9
41	Analysis of Lakhra Coal by Calibration Free Laser-Induced Breakdown Spectroscopy (CF-LIBS) and Comparison of Self-Absorption Correction Procedures. Analytical Letters, 2022, 55, 11-23.	1.8	9
42	Elemental Analysis of Cement and Its Components by Laser-Induced Breakdown Spectroscopy (LIBS) and Laser Ablation Time of Flight Mass Spectrometry (LA-TOF-MS). Analytical Letters, 2022, 55, 904-916.	1.8	9
43	The study of the $1s4\pi^2p$ optogalvanic transients in a neon discharge plasma. Optics Communications, 2009, 282, 2532-2538.	2.1	8
44	Emission intensity enhancement by re-ionization of Nd:YAG laser-produced plasma using a nitrogen laser. Laser Physics, 2019, 29, 055701.	1.2	7
45	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
46	Magnetic field-induced signal enhancement in laser-produced lead plasma. Laser and Particle Beams, 2019, 37, 67-78.	1.0	6
47	Elemental Analysis of Plants Cultivated in Saline Soil by Laser-Induced Breakdown Spectroscopy (LIBS). Analytical Letters, 2021, 54, 1351-1365.	1.8	6
48	Determination of Micronutrients and Toxic Elements in <i>Moringa Oleifera</i> Leaves by Calibration Free Laser-Induced Breakdown Spectroscopy (LIBS). Analytical Letters, 2022, 55, 755-769.	1.8	6
49	Optical Spectroscopic Study of Laser-Produced Aluminum Plasma. IEEE Transactions on Plasma Science, 2018, 46, 2920-2929.	1.3	4
50	Comparative Study of the Emission Enhancement Due to Target Heating and Laser Energy on the Laser-Produced Copper-Zinc Alloy Plasma. Analytical Letters, 2021, 54, 1269-1283.	1.8	4
51	Electric-field induced fluctuations in laser generated plasma plume. Plasma Science and Technology, 2021, 23, 045505.	1.5	4
52	Control of spontaneous emission in a five-level system. Journal of Russian Laser Research, 2008, 29, 227-236.	0.6	3
53	Anisotropic Strain Effect on Electron Transport in C60 Organic Field Effect transistors. Materials Research Society Symposia Proceedings, 2013, 1501, 1.	0.1	3
54	Amelioration in the Detection of Chlorine Using Electric Field Assisted LIBS. Plasma Chemistry and Plasma Processing, 2020, 40, 809-818.	2.4	3

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55	Stability of low voltage n-type organic field effect transistors. Synthetic Metals, 2014, 197, 18-22.	3.9	2
56	Laser excited population redistribution in the 2p53p multiplet in neon. Optics Communications, 2011, 284, 2872-2875.	2.1	1
57	AMPLITUDE CONTROL OF SPONTANEOUS EMISSION. International Journal of Modern Physics B, 2009, 23, 5143-5154.	2.0	0
58	Impact of morphology on charge carrier mobility in top gate C ₆₀ organic field effect transistors. , 2014, , .		0