

# Javed Iqbal

## List of Publications by Year in descending order

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60  
papers

945  
citations

430874

18  
h-index

526287

27  
g-index

60  
all docs

60  
docs citations

60  
times ranked

820  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Combined plasma treatment of AISI-1045 steel by hastelloy deposition and plasma nitriding. <i>Journal of Building Engineering</i> , 2022, 47, 103882.	3.4	10
3	Comparative study of structural and stoichiometric properties of titanium nitride films deposited by cathodic cage plasma deposition and magnetron sputtering. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	11
4	Graphene nanoplatelets/CeO <sub>2</sub> nanotiles nanocomposites as effective antibacterial material for multiple drug-resistant bacteria. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 1779-1790.	3.1	3
5	Enhanced visible-light-triggered photocatalytic characteristics of GNPs/CeO <sub>2</sub> nanocomposites towards hazardous organic pollutants. <i>Bulletin of Materials Science</i> , 2022, 45, 1.	1.7	0
6	Wear and corrosion studies of duplex surface-treated AISI-304 steel by a combination of cathodic cage plasma nitriding and PVD-TiN coating. <i>Ceramics International</i> , 2022, 48, 21473-21482.	4.8	29
7	The Effect of Cathodic Cage Plasma TiN Deposition on Surface Properties of Conventional Plasma Nitrided AISI-M2 Steel. <i>Metals</i> , 2022, 12, 961.	2.3	4
8	Quantification of Aluminum Gallium Arsenide (AlGaAs) Wafer Plasma Using Calibration-Free Laser-Induced Breakdown Spectroscopy (CF-LIBS). <i>Molecules</i> , 2022, 27, 3754.	3.8	8
9	Synthesis of molybdenum oxide on AISI-316 steel using cathodic cage plasma deposition at cathodic and floating potential. <i>Surface and Coatings Technology</i> , 2021, 406, 126650.	4.8	19
10	Enhanced Wear Resistance of AISI-316 Steel by Low-Temperature Molybdenum Cathodic Cage Plasma Deposition. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8947-8955.	2.5	2
11	Surface modification of AISI-304 steel by ZnO synthesis using cathodic cage plasma deposition. <i>Materials Research Express</i> , 2021, 8, 096403.	1.6	9
12	Measuring the concentration of gold in ore samples by laser-induced breakdown spectroscopy and comparison with the gravimetry/atomic absorption techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 183, 106256.	2.9	9
13	Synthesis of graphene nanoplatelets/polythiophene as a high performance supercapacitor electrode material. <i>New Journal of Chemistry</i> , 2021, 45, 16187-16195.	2.8	24
14	High sensitivity hydrogen analysis in zircaloy-4 using helium-assisted excitation laser-induced breakdown spectroscopy. <i>Scientific Reports</i> , 2021, 11, 21999.	3.3	3
15	Fabrication and characterization of ZnO/Zn <sub>2</sub> TiO <sub>4</sub> /ZnAl <sub>2</sub> O <sub>4</sub> composite films by using magnetron sputtering with ceramic targets. <i>Physica B: Condensed Matter</i> , 2021, , 413535.	2.7	1
16	IMPROVED NITRIDING CAPABILITY OF NONALLOYED STEELS ASSISTED WITH ACTIVE SCREEN PLASMA TREATMENT. <i>Surface Review and Letters</i> , 2020, 27, 1950118.	1.1	6
17	Novel synthesis of copper oxide on fabric samples by cathodic cage plasma deposition. <i>Polymers for Advanced Technologies</i> , 2020, 31, 520-526.	3.2	11
18	Surface modification of M2 steel by combination of cathodic cage plasma deposition and magnetron sputtered MoS <sub>2</sub> -TiN multilayer coatings. <i>Surface and Coatings Technology</i> , 2020, 384, 125327.	4.8	50

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19	Laser induced breakdown spectroscopy methods and applications: A comprehensive review. Radiation Physics and Chemistry, 2020, 170, 108666.	2.8	65
20	Energy penetrated and inverse bremsstrahlung absorption co-efficient in laser ablated germanium plasma. Journal of Molecular Structure, 2020, 1203, 127412.	3.6	7
21	Study of the optical and gas sensing properties of In <sub>2</sub> O <sub>3</sub> nanoparticles synthesized by rapid sonochemical method. Journal of Materials Science: Materials in Electronics, 2020, 31, 17474-17481.	2.2	12
22	Synthesis of TiN and TiO <sub>2</sub> thin films by cathodic cage plasma deposition: a brief review. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	8
23	Copper oxide nanosheets prepared by facile microplasma electrochemical technique with photocatalytic and bactericidal activities. Journal of Materials Science: Materials in Electronics, 2020, 31, 16649-16660.	2.2	7
24	Design, manufacturing and plasma nitriding of AISI-M2 steel forming tool and its performance analysis. Journal of Materials Research and Technology, 2020, 9, 14517-14527.	5.8	21
25	Enhancement of optical signal and characterization of palladium plasma by magnetic field-assisted laser-induced breakdown spectroscopy. Optik, 2020, 224, 165746.	2.9	11
26	Surface modification of PET fabric by plasma pre-treatment for long-lasting permethrin deposition. Polymers for Advanced Technologies, 2020, 31, 2229.	3.2	1
27	NOVEL ACTIVE SCREEN PLASMA NITRIDING OF ALUMINUM USING ALUMINUM CATHODIC CAGE. Surface Review and Letters, 2020, 27, 1950205.	1.1	4
28	Comparison of excitation mechanisms and the corresponding emission spectra in femto second and nano second laser-induced breakdown spectroscopy in reduced ambient air and their performances in surface analysis. Journal of Laser Applications, 2020, 32, 012014.	1.7	2
29	Plasma nitriding of AISI M2 steel: performance evaluation in forming tools. Surface Engineering, 2020, 36, 508-515.	2.2	8
30	Improved Mechanical Properties, Wear and Corrosion Resistance of 316L Steel by Homogeneous Chromium Nitride Layer Synthesis Using Plasma Nitriding. Journal of Materials Engineering and Performance, 2020, 29, 877-889.	2.5	23
31	Duplex plasma treatment of AISI D2 tool steel by combining plasma nitriding (with and without white) Tj ETQq1 1 0,784314 ggBT /Ov	4.8	23
32	Quantification of elemental composition of Granite Gneiss collected from Neelum Valley using calibration free laser-induced breakdown and energy-dispersive X-ray spectroscopy. Journal of Radiation Research and Applied Sciences, 2020, 13, 362-372.	1.2	7
33	Elemental analysis of sage (herb) using calibration-free laser-induced breakdown spectroscopy. Applied Optics, 2020, 59, 4927.	1.8	17
34	Calibration-free laser-induced breakdown spectroscopic analysis of copper-rich mineral collected from the Gilgit-Baltistan region of Pakistan. Applied Optics, 2020, 59, 68.	1.8	14
35	Enhanced wear and corrosion resistance of AISI-304 steel by duplex cathodic cage plasma treatment. Surface and Coatings Technology, 2019, 375, 34-45.	4.8	37
36	Quantification of rare earth elements with low pressure laser induced breakdown spectroscopy employing subtarget supported micro mesh sample holder. Journal of Laser Applications, 2019, 31, .	1.7	4

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37	One step facile synthesis, characterization and antimicrobial properties of Mg-doped CuO nanostructures. <i>Materials Research Express</i> , 2019, 6, 085022.	1.6	13
38	Food analysis employing high energy nanosecond laser and low pressure He ambient gas. <i>Microchemical Journal</i> , 2019, 147, 356-364.	4.5	19
39	Effect of pulsed current on cathodic cage plasma nitriding of non-alloyed steel. <i>Materials Research Express</i> , 2019, 6, 086537.	1.6	6
40	H <sup>13</sup> C Analysis Employing Energy Transfer from Metastable Excited-State He in Double-Pulse LIBS with Low-Pressure He Gas. <i>Analytical Chemistry</i> , 2019, 91, 1571-1577.	6.5	26
41	Non-intrusive measurement of electron, vibrational, rotational temperatures and active species concentration in N <sub>2</sub> -H <sub>2</sub> cathodic cage plasma. <i>Surface and Coatings Technology</i> , 2018, 344, 233-243.	4.8	13
42	Tailoring structural, surface, optical, and dielectric properties of CuO nanosheets for applications in high-frequency devices. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	20
43	Compositional dependent morphology, structural and magnetic properties of Fe <sub>100-x</sub> Cu <sub>x</sub> alloy nanowires via electrodeposition in AAO templates. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	5
44	The effect of argon admixing on nitriding of plain carbon steel in N <sub>2</sub> and N <sub>2</sub> -H <sub>2</sub> plasma. <i>Surface and Coatings Technology</i> , 2018, 350, 48-56.	4.8	29
45	Shock wave plasma generation in low pressure ambient gas from powder sample using subtarget supported micro mesh as a sample holder and its potential applications for sensitive analysis of powder samples. <i>Microchemical Journal</i> , 2018, 142, 108-116.	4.5	8
46	Optical Spectroscopic Study of Laser-Produced Aluminum Plasma. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2920-2929.	1.3	4
47	Graphene nanoplatelets induced tailoring in photocatalytic activity and antibacterial characteristics of MgO/graphene nanoplatelets nanocomposites. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	54
48	Time integrated optical emission studies of the laser produced germanium plasma. <i>Laser Physics</i> , 2017, 27, 046101.	1.2	10
49	Structural, magnetic and electromagnetic wave absorption properties of WO <sub>3</sub> @CuFe <sub>2</sub> O <sub>4</sub> : a novel nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10330-10337.	2.2	7
50	Influence of voltage variation on structure and magnetic properties of Co <sub>1-x</sub> Sn <sub>x</sub> (x=0.3-0.7) nanowire alloys in alumina by electrochemical deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	10
51	Effect of pulsed duty cycle control on tribological and corrosion properties of AISI-316 in cathodic cage plasma nitriding. <i>Materials Research Express</i> , 2017, 4, 116507.	1.6	14
52	ROS mediated malignancy cure performance of morphological, optical, and electrically tuned Sn doped CeO <sub>2</sub> nanostructures. <i>AIP Advances</i> , 2017, 7, 095205.	1.3	11
53	Graphene/SiO <sub>2</sub> nanocomposites: The enhancement of photocatalytic and biomedical activity of SiO <sub>2</sub> nanoparticles by graphene. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	41
54	Ferromagnetic Relaxation and Magnetic Properties of Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 469-473.	1.8	1

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55	An inexpensive technique for the time resolved laser induced plasma spectroscopy. Physics of Plasmas, 2016, 23, .	1.9	31
56	Spatial diagnostics of the laser-produced tin plasma in air. Laser Physics, 2016, 26, 076001.	1.2	18
57	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
58	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
59	Elemental Analysis of Stones Using Laser-Induced Breakdown Spectroscopy. IEEE Transactions on Plasma Science, 2015, 43, 2636-2641.	1.3	9
60	Synthesis, physical properties and antibacterial activity of metal oxides nanostructures. Materials Science in Semiconductor Processing, 2014, 21, 154-160.	4.0	43