

# 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	Laser induced breakdown spectroscopy methods and applications: A comprehensive review. Radiation Physics and Chemistry, 2020, 170, 108666.	2.8	65
2	Graphene nanoplatelets induced tailoring in photocatalytic activity and antibacterial characteristics of MgO/graphene nanoplatelets nanocomposites. Journal of Applied Physics, 2017, 121, .	2.5	54
3	Surface modification of M2 steel by combination of cathodic cage plasma deposition and magnetron sputtered MoS <sub>2</sub> -TiN multilayer coatings. Surface and Coatings Technology, 2020, 384, 125327.	4.8	50
4	Synthesis, physical properties and antibacterial activity of metal oxides nanostructures. Materials Science in Semiconductor Processing, 2014, 21, 154-160.	4.0	43
5	Graphene/SiO <sub>2</sub> nanocomposites: The enhancement of photocatalytic and biomedical activity of SiO <sub>2</sub> nanoparticles by graphene. Journal of Applied Physics, 2017, 121, .	2.5	41
6	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
7	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
8	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
9	An inexpensive technique for the time resolved laser induced plasma spectroscopy. Physics of Plasmas, 2016, 23, .	1.9	31
10	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. Surface and Coatings Technology, 2018, 350, 48-56.	4.8	29
11	Wear and corrosion studies of duplex surface-treated AISI-304 steel by a combination of cathodic cage plasma nitriding and PVD-TiN coating. Ceramics International, 2022, 48, 21473-21482.	4.8	29
12	H <sup>α</sup> -D Analysis Employing Energy Transfer from Metastable Excited-State He in Double-Pulse LIBS with Low-Pressure He Gas. Analytical Chemistry, 2019, 91, 1571-1577.	6.5	26
13	Synthesis of graphene nanoplatelets/polythiophene as a high performance supercapacitor electrode material. New Journal of Chemistry, 2021, 45, 16187-16195.	2.8	24
14	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
15	Duplex plasma treatment of AISI D2 tool steel by combining plasma nitriding (with and without white) Tj ETQq1 1 0,784314 rgBT /Ov	4.8	23
16	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
17	Tailoring structural, surface, optical, and dielectric properties of CuO nanosheets for applications in high-frequency devices. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	20
18	Food analysis employing high energy nanosecond laser and low pressure He ambient gas. Microchemical Journal, 2019, 147, 356-364.	4.5	19

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19	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
20	Spatial diagnostics of the laser-produced tin plasma in air. <i>Laser Physics</i> , 2016, 26, 076001.	1.2	18
21	Elemental analysis of sage (herb) using calibration-free laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2020, 59, 4927.	1.8	17
22	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
23	Calibration-free laser-induced breakdown spectroscopic analysis of copper-rich mineral collected from the Gilgit-Baltistan region of Pakistan. <i>Applied Optics</i> , 2020, 59, 68.	1.8	14
24	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
25	One step facile synthesis, characterization and antimicrobial properties of Mg-doped CuO nanostructures. <i>Materials Research Express</i> , 2019, 6, 085022.	1.6	13
26	Study of the optical and gas sensing properties of In <sub>2</sub> O <sub>3</sub> nanoparticles synthesized by rapid sonochemical method. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17474-17481.	2.2	12
27	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
28	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
29	Enhancement of optical signal and characterization of palladium plasma by magnetic field-assisted laser-induced breakdown spectroscopy. <i>Optik</i> , 2020, 224, 165746.	2.9	11
30	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
31	Time integrated optical emission studies of the laser produced germanium plasma. <i>Laser Physics</i> , 2017, 27, 046101.	1.2	10
32	Influence of voltage variation on structure and magnetic properties of Co <sub>1-x</sub> Sn <sub>x</sub> (x=0.0-0.7) nanowire alloys in alumina by electrochemical deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	10
33	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
34	Elemental Analysis of Stones Using Laser-Induced Breakdown Spectroscopy. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 2636-2641.	1.3	9
35	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
36	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

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37	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
38	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
39	Synthesis of TiN and TiO <sub>2</sub> thin films by cathodic cage plasma deposition: a brief review. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	8
40	Plasma nitriding of AISI M2 steel: performance evaluation in forming tools. <i>Surface Engineering</i> , 2020, 36, 508-515.	2.2	8
41	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
42	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
43	Energy penetrated and inverse bremsstrahlung absorption co-efficient in laser ablated germanium plasma. <i>Journal of Molecular Structure</i> , 2020, 1203, 127412.	3.6	7
44	Copper oxide nanosheets prepared by facile microplasma electrochemical technique with photocatalytic and bactericidal activities. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16649-16660.	2.2	7
45	Quantification of elemental composition of Granite Gneiss collected from Neelum Valley using calibration free laser-induced breakdown and energy-dispersive X-ray spectroscopy. <i>Journal of Radiation Research and Applied Sciences</i> , 2020, 13, 362-372.	1.2	7
46	Effect of pulsed current on cathodic cage plasma nitriding of non-alloyed steel. <i>Materials Research Express</i> , 2019, 6, 086537.	1.6	6
47	IMPROVED NITRIDING CAPABILITY OF NONALLOYED STEELS ASSISTED WITH ACTIVE SCREEN PLASMA TREATMENT. <i>Surface Review and Letters</i> , 2020, 27, 1950118.	1.1	6
48	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
49	Optical Spectroscopic Study of Laser-Produced Aluminum Plasma. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2920-2929.	1.3	4
50	Quantification of rare earth elements with low pressure laser induced breakdown spectroscopy employing subtarget supported micro mesh sample holder. <i>Journal of Laser Applications</i> , 2019, 31, .	1.7	4
51	NOVEL ACTIVE SCREEN PLASMA NITRIDING OF ALUMINUM USING ALUMINUM CATHODIC CAGE. <i>Surface Review and Letters</i> , 2020, 27, 1950205.	1.1	4
52	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
53	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
54	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

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55	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. <i>Journal of Laser Applications</i> , 2020, 32, 012014.	1.7	2
56	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
57	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
58	Surface modification of PET fabric by plasma pre-treatment for long-lasting permethrin deposition. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2229.	3.2	1
59	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
60	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