

Syahrudin Nur Abdulmadjid

List of Publications by Year in descending order

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52
papers

671
citations

567281

15
h-index

642732

23
g-index

53
all docs

53
docs citations

53
times ranked

407
citing authors

#	ARTICLE	IF	CITATIONS
1	A current advancement on the role of lignin as sustainable reinforcement material in biopolymeric blends. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2287-2316.	5.8	68
2	Quantitative Hydrogen Analysis of Zircaloy-4 Using Low-Pressure Laser Plasma Technique. <i>Analytical Chemistry</i> , 2007, 79, 2703-2707.	6.5	38
3	An improved approach for hydrogen analysis in metal samples using single laser-induced gas plasma and target plasma at helium atmospheric pressure. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 161-166.	2.2	33
4	Quantitative Analysis of Deuterium in Zircaloy Using Double-Pulse Laser-Induced Breakdown Spectrometry (LIBS) and Helium Gas Plasma without a Sample Chamber. <i>Analytical Chemistry</i> , 2012, 84, 2224-2231.	6.5	33
5	Characterization and Performance Evaluation of Cellulose Acetate/Polyurethane Film for Lead II Ion Removal. <i>Polymers</i> , 2020, 12, 1317.	4.5	29
6	The role of He in enhancing the intensity and lifetime of H and D emissions from laser-induced atmospheric-pressure plasma. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	27
7	H/D 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
8	Detection of deuterium and hydrogen using laser-induced helium gas plasma at atmospheric pressure. <i>Journal of Applied Physics</i> , 2005, 98, 093302.	2.5	25
9	Some notes on the role of meta-stable excited state of helium atom in laser-induced helium gas breakdown spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2007, 86, 729-734.	2.2	25
10	Filler-Modified Castor Oil-Based Polyurethane Foam for the Removal of Aqueous Heavy Metals Detected Using Laser-Induced Breakdown Spectroscopy (LIBS) Technique. <i>Polymers</i> , 2020, 12, 903.	4.5	23
11	Quantitative hydrogen analysis of zircaloy-4 in laser-induced breakdown spectroscopy with ambient helium gas. <i>Applied Optics</i> , 2007, 46, 8298.	2.1	22
12	Extracted Compounds from Neem Leaves as Antimicrobial Agent on the Physico-Chemical Properties of Seaweed-Based Biopolymer Films. <i>Polymers</i> , 2020, 12, 1119.	4.5	22
13	Formation and emission characteristics of CN molecules in laser induced low pressure He plasma and its applications to N analysis in coal and fossilization study. <i>Applied Optics</i> , 2016, 55, 1731.	2.1	21
14	Double pulse spectrochemical analysis using orthogonal geometry with very low ablation energy and He ambient gas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 69, 56-60.	2.9	18
15	Evidence of feasible hardness test on Mars using ratio of ionic/neutral emission intensities measured with laser-induced breakdown spectroscopy in low pressure CO ₂ ambient gas. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	16
16	Characteristics of Induced Current Due to Laser Plasma and Its Application to Laser Processing Monitoring. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 1018-1027.	1.5	14
17	Monitoring of laser processing using induced current under applied electric field on laser produced-plasma. <i>Journal of Materials Processing Technology</i> , 2009, 209, 3009-3021.	6.3	14
18	Spectral and Dynamic Characteristics of Helium Plasma Emission and its Effect on a Laser-Ablated Target Emission in a Double-Pulse Laser-Induced Breakdown Spectroscopy (LIBS) Experiment. <i>Applied Spectroscopy</i> , 2015, 69, 115-123.	2.2	14

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19	Sensitive analysis of carbon, chromium and silicon in steel using picosecond laser induced low pressure helium plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 114, 1-6.	2.9	14
20	Comparative study of laser-induced plasma emission of hydrogen from zircaloy-2 samples in atmospheric and low pressure ambient helium gas. <i>Applied Physics B: Lasers and Optics</i> , 2007, 89, 291-298.	2.2	13
21	Plasma emission induced by an Nd-YAG laser at low pressure on solid organic sample, its mechanism, and analytical application. <i>Journal of Applied Physics</i> , 2005, 97, 053305.	2.5	12
22	Intensity distributions of enhanced H emission from laser-induced low-pressure He plasma and a suggested He-assisted excitation mechanism. <i>Journal of Applied Physics</i> , 2009, 106, 043303.	2.5	12
23	Elemental analysis of bead samples using a laser-induced plasma at low pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 104-112.	2.9	11
24	Observation of exclusively He-induced H emission in cooled laser plasma. <i>Journal of Applied Physics</i> , 2011, 109, 103305.	2.5	11
25	Deuterium analysis in zircaloy using ps laser-induced low pressure plasma. <i>Journal of Applied Physics</i> , 2011, 110, 063301.	2.5	11
26	Quantitative Deuterium Analysis of Titanium Samples in Ultraviolet Laser-Induced Low-Pressure Helium Plasma. <i>Applied Spectroscopy</i> , 2010, 64, 365-369.	2.2	10
27	Practical and highly sensitive elemental analysis for aqueous samples containing metal impurities employing electrodeposition on indium-tin oxide film samples and laser-induced shock wave plasma in low-pressure helium gas. <i>Applied Optics</i> , 2015, 54, 7592.	2.1	10
28	Film analysis employing subtarget effect using 355Ånm Nd-YAG laser-induced plasma at low pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1285-1293.	2.9	9
29	Quenching of He-induced intensity enhancement effect in H and D emission produced by Nd-doped yttrium aluminum garnet laser irradiation on solid targets in low pressure helium gas. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	9
30	Direct evidence of mismatching effect on H emission in laser-induced atmospheric helium gas plasma. <i>Journal of Applied Physics</i> , 2013, 113, 053301.	2.5	8
31	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
32	Cellulose acetate-polyurethane film adsorbent with analyte enrichment for in-situ detection and analysis of aqueous Pb using Laser-Induced Breakdown Spectroscopy (LIBS). <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100516.	2.9	8
33	Underlying Physical Process for the Unusual Spectral Quality of Double Pulse Laser Spectroscopy in He Gas. <i>Analytical Chemistry</i> , 2019, 91, 7864-7870.	6.5	7
34	Excitation mechanisms in 1â€mJ picosecond laser induced low pressure He plasma and the resulting spectral quality enhancement. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	6
35	TEA-CO2 Laser-Induced Shock Wave Plasma Modulated by Wires and Needles Placed in Front of the Target at Low Pressure. <i>Applied Spectroscopy</i> , 2003, 57, 874-877.	2.2	5
36	Quantitative and sensitive analysis of CN molecules using laser induced low pressure He plasma. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	5

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37	Low pressure micro-Joule picosecond laser-induced breakdown spectroscopy and its prospective applications to minimally destructive and high resolution analysis. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 096201.	1.5	5
38	Signal enhancement of neutral He emission lines by fast electron bombardment of laser-induced He plasma. <i>AIP Advances</i> , 2016, 6, 085105.	1.3	4
39	Elemental detection of arabica and robusta green bean coffee using laser-induced plasma spectroscopy. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
40	A comparative study of emission efficiencies in low-pressure argon plasmas induced by picosecond and nanosecond Nd:YAG lasers. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 116101.	1.5	3
41	Emission Spectrochemical Analysis of Soft Samples Including Raw Fish by Employing Laser-Induced Breakdown Spectroscopy with a Subtarget at Low-Pressure Helium Gas. <i>ACS Omega</i> , 2020, 5, 16811-16818.	3.5	3
42	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
43	A Comparative Study of Pressure-Dependent Emission Characteristics in Different Gas Plasmas Induced by Nanosecond and Picosecond Neodymium-Doped Yttrium Aluminum Garnet (Nd:YAG) Lasers. <i>Applied Spectroscopy</i> , 2013, 67, 1285-1295.	2.2	2
44	The use of laser-induced shock wave plasma spectroscopy (LISPS) for examining physical characteristics of pharmaceutical products. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
45	Preferential triplet over singlet emission of Zn in laser-induced plasmas. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 066101.	1.5	2
46	Underlying physical processes for time dependent variations of He triplet and singlet intensities in laser-induced He plasma. <i>Journal of Applied Physics</i> , 2020, 127, 243303.	2.5	2
47	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
48	Effects of mass difference on pressure-dependent emission characteristics in laser-induced plasma spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2006, 85, 631-636.	2.2	1
49	Reply to Comments on "Sensitive analysis of carbon, chromium and silicon in steel using picosecond laser induced low pressure helium plasma" by Zaytsev et al., <i>Spectrochim. Acta Part B</i> 118 (2016) 37-39. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 123, 184-185.	2.9	1
50	Production of artificial snow crystals using charged thin hairs in a thermos containing a mixture of salt and ice. <i>Current Applied Physics</i> , 2005, 5, 397-400.	2.4	0
51	Induced Current Characteristics Due to Laser Induced Plasma and Its Application to Laser Processing Monitoring. , 2011, , .		0
52	A Review of Membrane-Facilitated Liquid-Solid Conversion: Adding Laser-Induced Breakdown Spectroscopy (LIBS) Multi-Applicability for Metal Analysis. <i>Journal of Physics: Conference Series</i> , 2021, 1951, 012044.	0.4	0