

Mohamed E Shaheen

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

644
citations

623574

14
h-index

552653

26
g-index

27
all docs

27
docs citations

27
times ranked

677
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond (fs) lasers coupled with modern ICP-MS instruments provide new and improved potential for in situ elemental and isotopic analyses in the geosciences. <i>Chemical Geology</i> , 2012, 330-331, 260-273.	1.4	77
2	Experimental studies on the determination of the dipole moments of some different laser dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 187-191.	2.0	55
3	Femtosecond laser ablation behavior of gold, crystalline silicon, and fused silica: a comparative study. <i>Laser Physics</i> , 2014, 24, 106102.	0.6	53
4	Laser ablation of iron: A comparison between femtosecond and picosecond laser pulses. <i>Journal of Applied Physics</i> , 2013, 114, 083110.	1.1	50
5	Femtosecond laser ablation of brass in air and liquid media. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	45
6	Evaluation of the analytical performance of femtosecond laser ablation inductively coupled plasma mass spectrometry at 785 nm with glass reference materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1610.	1.6	41
7	Excimer laser ablation of aluminum: influence of spot size on ablation rate. <i>Laser Physics</i> , 2016, 26, 116102.	0.6	35
8	Improving the analytical capabilities of femtosecond laser ablation multicollector ICP-MS for high precision Pb isotopic analysis: the role of hydrogen and nitrogen. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1006.	1.6	34
9	Experimental study on 785nm femtosecond laser ablation of sapphire in air. <i>Laser Physics Letters</i> , 2015, 12, 066103.	0.6	33
10	Femtosecond laser ablation of brass: A study of surface morphology and ablation rate. <i>Laser and Particle Beams</i> , 2012, 30, 473-479.	0.4	27
11	Investigations of energy transfer from some diolefinic laser dyes to Rhodamine 110. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 133, 185-188.	2.0	26
12	Studies on laser ablation of silicon using near IR picosecond and deep UV nanosecond lasers. <i>Optics and Lasers in Engineering</i> , 2019, 119, 18-25.	2.0	26
13	Experimental investigations on energy-transfer characteristics and performance of some laser dye mixtures. <i>Optics and Laser Technology</i> , 2002, 34, 99-105.	2.2	20
14	Elemental fractionation in 785nm picosecond and femtosecond laser ablation inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 107, 97-109.	1.5	20
15	A simple solution to expanding available reference materials for Laser Ablation Inductively Coupled Plasma Mass Spectrometry analysis: Applications to sedimentary materials. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 627-636.	1.5	15
16	Application of laser light scattering to the determination of molecular weight, second virial coefficient, and radius of gyration of chitosan. <i>Polymer</i> , 2018, 158, 18-24.	1.8	15
17	Energy transfer and excited state lifetime of some anthracene laser dyes. <i>Optics and Laser Technology</i> , 2004, 36, 463-469.	2.2	14
18	Determination of heavy metal content and pollution indices in the agricultural soils using laser ablation inductively coupled plasma mass spectrometry. <i>Environmental Science and Pollution Research</i> , 2021, 28, 36039-36052.	2.7	13

#	ARTICLE	IF	CITATIONS
19	Experimental studies on static laser light scattering of synthesized poly (acrylonitrile-co- methyl) Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	1.4	10
20	Evaluation of ablation efficiency and surface morphology of human teeth upon irradiation with femtosecond laser pulses. Laser Physics, 2014, 24, 116001.	0.6	9
21	Scanning electron microscope studies on laser ablation of solids. Laser and Particle Beams, 2019, 37, 101-109.	0.4	7
22	A simple and rapid method for preparing a diversity of powdered materials for analysis by laser ablation inductively coupled plasma mass spectrometry. International Journal of Mass Spectrometry, 2017, 421, 104-115.	0.7	6
23	Suitability of Au² as a Reference Material for Trace Element Microanalysis of Native Gold. Geostandards and Geoanalytical Research, 2017, 41, 689-700.	1.7	4
24	Experimental studies on ablation characteristics of alumina after irradiation with a 193-nm ArF excimer laser. European Physical Journal Plus, 2021, 136, 1.	1.2	4
25	ICMMS-2: Assessment of Heavy Metals Content in The Agricultural Soils of Kafr El-Zayat Egypt Using Laser Ablation Inductively Coupled Plasma Mass Spectrometry and Inductively Coupled Plasma Optical Emission Spectroscopy. Egyptian Journal of Chemistry, 2021, .	0.1	3
26	Morphological and ablation characteristics of brass and fused silica after interaction with ArF excimer laser. Optik, 2022, 262, 169388.	1.4	0