Awadhesh Kumar Rai

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8174892/publications.pdf

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20	702	759233 12	794594 19
papers	citations	h-index	g-index

20	20	20	821
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silicon-mediated alleviation of Cr(VI) toxicity in wheat seedlings as evidenced by chlorophyll florescence, laser induced breakdown spectroscopy and anatomical changes. Ecotoxicology and Environmental Safety, 2015, 113, 133-144.	6.0	152
2	Prospects for laser-induced breakdown spectroscopy for biomedical applications: a review. Lasers in Medical Science, 2011, 26, 673-687.	2.1	131
3	Assessment of LIBS for Spectrochemical Analysis: A Review. Applied Spectroscopy Reviews, 2012, 47, 14-40.	6.7	103
4	LIBS: A Quality Control Tool for Food Supplements. Food Biophysics, 2011, 6, 527-533.	3.0	42
5	Controlled synthesis, characterization, and application of iron oxide nanoparticles for oral delivery of insulin. Lasers in Medical Science, 2013, 28, 579-587.	2.1	35
6	Liquid assisted pulsed laser ablation synthesized copper oxide nanoparticles (CuO-NPs) and their differential impact on rice seedlings. Ecotoxicology and Environmental Safety, 2019, 176, 321-329.	6.0	33
7	Study of different concentric rings inside gallstones with LIBS. Lasers in Medical Science, 2011, 26, 531-537.	2.1	32
8	Laser-Induced Breakdown Spectroscopy: An Approach to Detect Adulteration in Turmeric. Spectroscopy Letters, 2013, 46, 155-159.	1.0	30
9	In-SituMonitoring of Chromium Uptake in Different Parts of the Wheat Seedling (Triticum) Tj ETQq1 1 0.784314 rgBT /Over	1.0	28
10	Laser-Induced Breakdown Spectroscopy and Phytolith Analysis: An Approach to Study the Deposition and Distribution Pattern of Silicon in Different Parts of Wheat (Triticum aestivum L.) Plant. Agricultural Research, 2012, 1, 352-361.	1.7	27
11	LASER-INDUCED BREAKDOWN SPECTROSCOPY FOR THE STUDY OF THE PATTERN OF SILICON DEPOSITION IN LEAVES OFSACCHARUMSPECIES. Instrumentation Science and Technology, 2011, 39, 510-521.	1.8	23
12	Comparison of spectrum normalization techniques for univariate analysis of stainless steel by laser-induced breakdown spectroscopy. Pramana - Journal of Physics, 2016, 86, 1313-1327.	1.8	16
13	Atomic and Molecular Laser-Induced Breakdown Spectroscopy of Selected Pharmaceuticals. Atoms, 2019, 7, 71.	1.6	13
14	Microalgal consortia differentially modulate progressive adsorption of hexavalent chromium. Physiology and Molecular Biology of Plants, 2017, 23, 269-280.	3.1	12
15	Evaluation of Na and K in anti-diabetic ayurvedic medicine using LIBS. Lasers in Medical Science, 2022, 37, 513-522.	2.1	9
16	Proof-of-concept experiment for on-line laser induced breakdown spectroscopy analysis of impurity layer deposited on optical window and other plasma facing components of Aditya tokamak. Review of Scientific Instruments, 2015, 86, 123112.	1.3	6
17	LIBS based spectroscopic analysis and antidiabetic evaluation of a polyherbal formulation. Journal of Food Measurement and Characterization, 2013, 7, 114-121.	3.2	3
18	Analysis of constituents present in smokeless tobacco (Nicotiana tabacum) using spectroscopic techniques. Methods and Applications in Fluorescence, 2022, 10, 034001.	2.3	3

#	Article	IF	Citations
19	An Approach of Laser-Induced Breakdown Spectroscopy to Detect Toxic Metals in Crushed Ice Ball. , 2013, 2013, 1-9.		2
20	Analysis of Tendu (Diospyros Melanoxylon) Leaf Using Spectroscopic Techniques. The National Academy of Sciences, India, 2022, 45, 91-94.	1.3	2