

# Awadhesh Kumar Rai

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

702  
citations

759233

12  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

821  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Na and K in anti-diabetic ayurvedic medicine using LIBS. Lasers in Medical Science, 2022, 37, 513-522.	2.1	9
2	Analysis of Tendu (Diospyros Melanoxylon) Leaf Using Spectroscopic Techniques. The National Academy of Sciences, India, 2022, 45, 91-94.	1.3	2
3	Analysis of constituents present in smokeless tobacco (Nicotiana tabacum) using spectroscopic techniques. Methods and Applications in Fluorescence, 2022, 10, 034001.	2.3	3
4	Atomic and Molecular Laser-Induced Breakdown Spectroscopy of Selected Pharmaceuticals. Atoms, 2019, 7, 71.	1.6	13
5	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
6	Microalgal consortia differentially modulate progressive adsorption of hexavalent chromium. Physiology and Molecular Biology of Plants, 2017, 23, 269-280.	3.1	12
7	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
8	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
9	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
10	<i>In-Situ</i> Monitoring of Chromium Uptake in Different Parts of the Wheat Seedling ( <i>Triticum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	28
11	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
12	Laser-Induced Breakdown Spectroscopy: An Approach to Detect Adulteration in Turmeric. Spectroscopy Letters, 2013, 46, 155-159.	1.0	30
13	LIBS based spectroscopic analysis and antidiabetic evaluation of a polyherbal formulation. Journal of Food Measurement and Characterization, 2013, 7, 114-121.	3.2	3
14	An Approach of Laser-Induced Breakdown Spectroscopy to Detect Toxic Metals in Crushed Ice Ball. , 2013, 2013, 1-9.		2
15	Assessment of LIBS for Spectrochemical Analysis: A Review. Applied Spectroscopy Reviews, 2012, 47, 14-40.	6.7	103
16	Laser-Induced Breakdown Spectroscopy and Phytolith Analysis: An Approach to Study the Deposition and Distribution Pattern of Silicon in Different Parts of Wheat ( <i>Triticum aestivum</i> L.) Plant. Agricultural Research, 2012, 1, 352-361.	1.7	27
17	Study of different concentric rings inside gallstones with LIBS. Lasers in Medical Science, 2011, 26, 531-537.	2.1	32
18	Prospects for laser-induced breakdown spectroscopy for biomedical applications: a review. Lasers in Medical Science, 2011, 26, 673-687.	2.1	131

#	ARTICLE	IF	CITATIONS
19	LIBS: A Quality Control Tool for Food Supplements. Food Biophysics, 2011, 6, 527-533.	3.0	42
20	LASER-INDUCED BREAKDOWN SPECTROSCOPY FOR THE STUDY OF THE PATTERN OF SILICON DEPOSITION IN LEAVES OF <i>SACCHARUM</i> SPECIES. Instrumentation Science and Technology, 2011, 39, 510-521.	1.8	23