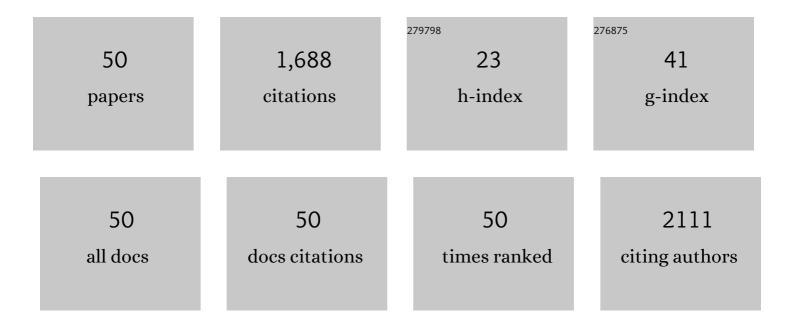
## Madhavi Z Martin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Trace elemental analysis by laser-induced breakdown spectroscopy—Biological applications. Surface Science Reports, 2012, 67, 233-243.	7.2	149
2	Analysis of preservative-treated wood by multivariate analysis of laser-induced breakdown spectroscopy spectra. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1179-1185.	2.9	139
3	<i>Pseudomonas fluorescens</i> Induces Strain-Dependent and Strain-Independent Host Plant Responses in Defense Networks, Primary Metabolism, Photosynthesis, and Fitness. Molecular Plant-Microbe Interactions, 2012, 25, 765-778.	2.6	100
4	Down-regulation of the caffeic acid O-methyltransferase gene in switchgrass reveals a novel monolignol analog. Biotechnology for Biofuels, 2012, 5, 71.	6.2	96
5	Laser-induced breakdown spectroscopy for the environmental determination of total carbon and nitrogen in soils. Applied Optics, 2003, 42, 2072.	2.1	91
6	High resolution applications of laser-induced breakdown spectroscopy for environmental and forensic applications. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1426-1432.	2.9	91
7	Exploring laser-induced breakdown spectroscopy for nuclear materials analysis and in-situ applications. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 74-75, 177-183.	2.9	70
8	<i>Populus trichocarpa</i> and <i>Populus deltoides</i> Exhibit Different Metabolomic Responses to Colonization by the Symbiotic Fungus <i>Laccaria bicolor</i> . Molecular Plant-Microbe Interactions, 2014, 27, 546-556.	2.6	69
9	Aerosol Measurement by Laser-Induced Plasma Technique: A Review. Aerosol Science and Technology, 1999, 31, 409-421.	3.1	68
10	Novel Multivariate Analysis for Soil Carbon Measurements Using Laserâ€Induced Breakdown Spectroscopy. Soil Science Society of America Journal, 2010, 74, 87-93.	2.2	67
11	Detection of Chromium Aerosol Using Time-Resolved Laser-Induced Plasma Spectroscopy. Applied Spectroscopy, 2000, 54, 1279-1285.	2.2	63
12	Extraction of information from laser-induced breakdown spectroscopy spectral data by multivariate analysis. Applied Optics, 2008, 47, G158.	2.1	53
13	Characterization of <i>Clostridium thermocellum</i> strains with disrupted fermentation end-product pathways. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 725-734.	3.0	50
14	Quantification of rare earth elements using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 114, 65-73.	2.9	49
15	Evaluation of the bioconversion of genetically modified switchgrass using simultaneous saccharification and fermentation and a consolidated bioprocessing approach. Biotechnology for Biofuels, 2012, 5, 81.	6.2	46
16	The nature of the progression of drought stress drives differential metabolomic responses in Populus deltoides. Annals of Botany, 2019, 124, 617-626.	2.9	45
17	Cellular Response of Shewanella oneidensis to Strontium Stress. Applied and Environmental Microbiology, 2006, 72, 890-900.	3.1	44
18	Investigation of laser-induced breakdown spectroscopy and multivariate analysis for differentiating inorganic and organic C in a variety of soils. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 87, 100-107.	2.9	32

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19	Pleiotropic and Epistatic Network-Based Discovery: Integrated Networks for Target Gene Discovery. Frontiers in Energy Research, 2018, 6, .	2.3	32
20	Pinoresinol reductase 1 impacts lignin distribution during secondary cell wall biosynthesis in Arabidopsis. Phytochemistry, 2015, 112, 170-178.	2.9	31
21	Integrated omics analyses reveal the details of metabolic adaptation of Clostridium thermocellum to lignocellulose-derived growth inhibitors released during the deconstruction of switchgrass. Biotechnology for Biofuels, 2017, 10, 14.	6.2	30
22	Ectopic Defense Gene Expression Is Associated with Growth Defects in <i>Medicago truncatula</i> Lignin Pathway Mutants. Plant Physiology, 2019, 181, 63-84.	4.8	27
23	Multivariate Analysis of Laser-Induced Breakdown Spectroscopy Spectra of Soil Samples. Soil Science, 2010, 175, 447-452.	0.9	25
24	Elemental Analysis of Environmental and Biological Samples Using Laserâ€induced Breakdown Spectroscopy and Pulsed Raman Spectroscopy. Journal of Dispersion Science and Technology, 2005, 25, 687-694.	2.4	23
25	Multi-Phenotype Association Decomposition: Unraveling Complex Gene-Phenotype Relationships. Frontiers in Genetics, 2019, 10, 417.	2.3	20
26	High-speed optical response of pseudomorphic InGaAs high electron mobility transistors. IEEE Photonics Technology Letters, 1992, 4, 1012-1014.	2.5	19
27	Electrical conductivity measurements in a Ge-Se-Ti system. Journal of Non-Crystalline Solids, 1988, 103, 195-200.	3.1	17
28	Laser-induced breakdown spectroscopy used to detect palladium and silver metal dispersed in bacterial cellulose membranes. Applied Optics, 2003, 42, 6174.	2.1	17
29	Laser-induced breakdown spectroscopy used to detect endophyte-mediated accumulation of metals by tall fescue. Applied Optics, 2010, 49, C161.	2.1	15
30	Laser Induced Breakdown Spectroscopy analysis of europium and samarium in aluminum oxide. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 149, 30-34.	2.9	15
31	Finding New Cell Wall Regulatory Genes in Populus trichocarpa Using Multiple Lines of Evidence. Frontiers in Plant Science, 2019, 10, 1249.	3.6	13
32	Enhanced negative ion formation in ultravioletâ€laser irradiated silane: Implications for plasma deposition of amorphous silicon. Applied Physics Letters, 1994, 65, 2571-2573.	3.3	11
33	Correlating laser-induced breakdown spectroscopy with neutron activation analysis to determine the elemental concentration in the ionome of the Populus trichocarpa leaf. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 138, 46-53.	2.9	11
34	<title>Laser-induced breakdown spectroscopy for environmental monitoring of soil carbon and nitrogen</title> . , 2002, 4576, 188.		9
35	Tree-Ring Growth and Wood Chemistry Response to Manipulated Precipitation Variation for Two Temperate Quercus Species. Tree-Ring Research, 2012, 68, 17-29.	0.6	8
36	Effect of γ-irradiation on non-linear I-V behaviour and thermoelectric measurements in amorphous semiconducting Asî—,Seî—,Te system. Journal of Non-Crystalline Solids, 1985, 74, 47-55.	3.1	7

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37	Micro-Laser-Induced Breakdown Spectroscopy: A Novel Approach Used in the Detection of Six Rare Earths and One Transition Metal. Minerals (Basel, Switzerland), 2019, 9, 103.	2.0	7
38	Application of Emerging Tools and Techniques for Measuring Carbon and Microbial Communities in Reclaimed Mine Soils. Environmental Management, 2004, 33, S518.	2.7	6
39	Inorganic characterization of switchgrass biomass using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 186, 106323.	2.9	6
40	North American Symposium on Laser-Induced Breakdown Spectroscopy: introduction to the feature issue. Applied Optics, 2008, 47, LIBS1.	2.1	4
41	Spectral analysis of rare earth elements using laser-induced breakdown spectroscopy. , 2015, , .		4
42	Quantification of Rare Earth Elements in the Parts Per Million Range: A Novel Approach in the Application of Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 2022, 76, 937-945.	2.2	4
43	Applications of High Resolution Laser: Induced Breakdown Spectroscopy for Environmental and Biological Samples. Springer Series in Optical Sciences, 2014, , 439-456.	0.7	2
44	Preliminary design of laser-induced breakdown spectroscopy for proto-Material Plasma Exposure eXperiment. Review of Scientific Instruments, 2014, 85, 11D806.	1.3	2
45	Genetic Improvement, Sustainable Production and Scalable Small Microenterprise of Jatropha as a Biodiesel Feedstock. Journal of Bioremediation & Biodegradation, 2013, s4, .	0.5	1
46	Transport properties and infrared spectra of CuCl thin films. Journal of Applied Physics, 1990, 67, 3097-3101.	2.5	0
47	Electrical and optical response of a very high frequency AlGaAs/GaAs heterojunction bipolar transistor. Journal of Applied Physics, 1994, 76, 3847-3849.	2.5	0
48	Fourier transform Raman spectroscopy-application to process control. , 1994, 2089, 210.		0
49	Environmental monitoring of total carbon and nitrogen in soils using laser-induced breakdown spectroscopy. , 2002, , .		0
50	Laser-induced breakdown spectroscopy used to detect palladium metal dispersed in cellulose membranes. , 2002, , .		0