

Rinda Hedwig

List of Publications by Year in descending order

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90
papers

1,024
citations

430874

18
h-index

580821

25
g-index

91
all docs

91
docs citations

91
times ranked

459
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Micronutrients and Toxic Elements in <i>Moringa Oleifera</i> Leaves by Calibration Free Laser-Induced Breakdown Spectroscopy (LIBS). <i>Analytical Letters</i> , 2022, 55, 755-769.	1.8	6
2	Unusual parallel laser irradiation for suppressing self-absorption in single pulse laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2021, 29, 22593.	3.4	5
3	Voice processing for COVID-19 scanning and prognostic indicator. <i>Heliyon</i> , 2021, 7, e08134.	3.2	7
4	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
5	Lazy Susan Calorie Monitoring Dining Table Based on Raspberry Pi. , 2021, , .		0
6	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
7	Suppression of self-absorption in laser-induced breakdown spectroscopy using a double pulse orthogonal configuration to create vacuum-like conditions in atmospheric air pressure. <i>Scientific Reports</i> , 2020, 10, 13278.	3.3	16
8	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
9	Rapid powder analysis with laser-induced breakdown spectroscopy at low pressure ambient helium gas employing bamboo charcoal as a sample holder. <i>Journal of Laser Applications</i> , 2020, 32, .	1.7	2
10	Characterization and Performance Evaluation of Cellulose Acetate-Polyurethane Film for Lead II Ion Removal. <i>Polymers</i> , 2020, 12, 1317.	4.5	29
11	Navigation assistant for vision impaired people using ultra sonic (sonar vision) and global positioning system (GPS). <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 426, 012142.	0.3	0
12	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
13	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
14	Suppression of self-absorption effect in laser-induced breakdown spectroscopy by employing a Penning-like energy transfer process in helium ambient gas. <i>Optics Express</i> , 2020, 28, 9259.	3.4	12
15	Quantification of rare earth elements with low pressure laser induced breakdown spectroscopy employing subtarget supported micro mesh sample holder. <i>Journal of Laser Applications</i> , 2019, 31, .	1.7	4
16	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
17	Food analysis employing high energy nanosecond laser and low pressure He ambient gas. <i>Microchemical Journal</i> , 2019, 147, 356-364.	4.5	19
18	Simulation of Mitsubishi RV-M1 Robotic Arms by Using MATLAB® for High School Teaching. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 598, 012104.	0.6	0

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19	Enhancement of carbon detection sensitivity in laser induced breakdown spectroscopy with low pressure ambient helium gas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 151, 26-32.	2.9	12
20	H ^α -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
21	Analytical Approach of Laser-Induced Breakdown Spectroscopy to Detect Elemental Profile of Medicinal Plants Leaves. <i>Indonesian Journal of Chemistry</i> , 2019, 19, 430.	0.8	6
22	Stabilizing system for quadrotor copter like flying robot by using proportional-integral-derivative (PID) controller. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 195, 012067.	0.3	0
23	Preliminary panoramic study of river calm muscle using neodymium:yttrium-aluminum-garnet (Nd: YAG) laser. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 109, 012057.	0.4	1
24	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
25	H-D Analysis Employing Low-Pressure microjoule Picosecond Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 4951-4957.	6.5	14
26	Elemental detection of arabica and robusta green bean coffee using laser-induced plasma spectroscopy. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
27	Preferential triplet over singlet emission of Zn in laser-induced plasmas. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 066101.	1.5	2
28	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
29	Implementation of vertical multistage centrifugal pump system for villages at an altitude of $\hat{A}\pm 1200\text{m}$ above sea level in Sipahutar \hat{A} North Sumatera area. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 109, 012013.	0.3	0
30	Preliminary study on detection sediment contamination in soil affected by the Indian Ocean giant tsunami 2004 in Aceh, Indonesia using laser-induced breakdown spectroscopy (LIBS). <i>AIP Conference Proceedings</i> , 2016, , .	0.4	10
31	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
32	Application of picosecond laser-induced breakdown spectroscopy to quantitative analysis of boron in meatballs and other biological samples. <i>Applied Optics</i> , 2016, 55, 8986.	2.1	20
33	Rapid Detection of Oil Pollution in Soil by Using Laser-Induced Breakdown Spectroscopy. <i>Plasma Science and Technology</i> , 2016, 18, 1186-1191.	1.5	8
34	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
35	Human tracking in certain indoor and outdoor area by combining the use of RFID and GPS. , 2016, , .		10
36	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

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37	Nanosecond Nd-YAG laser induced plasma emission characteristics in low pressure CO ₂ ambient gas for spectrochemical application on Mars. <i>Journal of Applied Physics</i> , 2015, 118, 083304.	2.5	4
38	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
39	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
40	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
41	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
42	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
43	Examination of the capability of the laser-induced breakdown spectroscopy (LIBS) technique as the emerging laser-based analytical tool for analyzing trace elements in coal. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	2
44	Solar Panel System for Street Light Using Maximum Power Point Tracking (MPPT) Technique. <i>EPJ Web of Conferences</i> , 2014, 68, 00017.	0.3	0
45	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
46	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
47	Comparative study of Nd:YAG laser-induced breakdown spectroscopy and transversely excited atmospheric CO ₂ laser-induced gas plasma spectroscopy on chromated copper arsenate preservative-treated wood. <i>Applied Optics</i> , 2012, 51, B121.	1.8	12
48	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
49	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
50	A comprehensive study of H emission in a TEA CO ₂ laser-induced helium gas plasma for highly sensitive analysis of hydrogen in metal samples. <i>Journal of the Korean Physical Society</i> , 2012, 61, 49-54.	0.7	3
51	Modified Line-Maze Algorithm for Mobile Robot Navigation. <i>Procedia Engineering</i> , 2012, 50, 740-747.	1.2	1
52	Emission Characteristics of Ca and Mg Atoms in Gas Plasma Induced by the Bombardment of Transversely Excited Atmospheric CO ₂ Laser at 1 atm. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 082403.	1.5	0
53	Web-Based Open Loop Remote Control Robot. <i>Procedia Engineering</i> , 2012, 50, 52-58.	1.2	0
54	Microcontroller-based Seismic-Shaking Intensity Meter. <i>Procedia Engineering</i> , 2012, 50, 586-591.	1.2	0

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55	Emission characteristics of hydrogen in atmospheric helium gas plasma induced by TEA CO ₂ laser bombardment on zircaloy sample containing hydrogen. Journal of Analytical Atomic Spectrometry, 2011, 26, 1451.	3.0	6
56	Observation of exclusively He-induced H emission in cooled laser plasma. Journal of Applied Physics, 2011, 109, 103305.	2.5	11
57	Direct analysis of powder samples using transversely excited atmospheric CO ₂ laser-induced gas plasma at 1 atm. Analytical and Bioanalytical Chemistry, 2011, 400, 3279-3287.	3.7	41
58	Excitation Mechanism of H, He, C, and F Atoms in Metal-Assisted Atmospheric Helium Gas Plasma Induced by Transversely Excited Atmospheric-Pressure CO ₂ Laser Bombardment. Japanese Journal of Applied Physics, 2011, 50, 122701.	1.5	13
59	Deuterium analysis in zircaloy using ps laser-induced low pressure plasma. Journal of Applied Physics, 2011, 110, 063301.	2.5	11
60	Excitation Mechanism of H, He, C, and F Atoms in Metal-Assisted Atmospheric Helium Gas Plasma Induced by Transversely Excited Atmospheric-Pressure CO ₂ Laser Bombardment. Japanese Journal of Applied Physics, 2011, 50, 122701.	1.5	6
61	Hydrogen analysis in metal samples by selective detection method utilizing TEA CO ₂ laser-induced He gas plasma. Applied Physics A: Materials Science and Processing, 2010, 101, 555-558.	2.3	10
62	A novel double-pulse laser plasma spectroscopic technique for H analysis in metal samples utilizing transversely excited atmospheric-pressure CO ₂ laser-induced metastable He atoms. Optical Review, 2010, 17, 285-289.	2.0	13
63	Toward quantitative deuterium analysis with laser-induced breakdown spectroscopy using atmospheric-pressure helium gas. Journal of Applied Physics, 2010, 107, 023301.	2.5	10
64	Quantitative Deuterium Analysis of Titanium Samples in Ultraviolet Laser-Induced Low-Pressure Helium Plasma. Applied Spectroscopy, 2010, 64, 365-369.	2.2	10
65	Intensity distributions of enhanced H emission from laser-induced low-pressure He plasma and a suggested He-assisted excitation mechanism. Journal of Applied Physics, 2009, 106, 043303.	2.5	12
66	The role of He in enhancing the intensity and lifetime of H and D emissions from laser-induced atmospheric-pressure plasma. Journal of Applied Physics, 2009, 105, .	2.5	27
67	Spectrochemical analysis of powder using 355 nm Nd-YAG laser-induced low-pressure plasma. Analytical and Bioanalytical Chemistry, 2008, 390, 1781-1787.	3.7	14
68	Study of Hydrogen and Deuterium Emission Characteristics in Laser-Induced Low-Pressure Helium Plasma for the Suppression of Surface Water Contamination. Analytical Chemistry, 2008, 80, 1240-1246.	6.5	12
69	Joint Experiments on X-ray Particle Emission from Plasmas Produced by Laser Irradiating Nano Structured Targets. AIP Conference Proceedings, 2008, , .	0.4	0
70	Quantitative hydrogen analysis of zircaloy-4 in laser-induced breakdown spectroscopy with ambient helium gas. Applied Optics, 2007, 46, 8298.	2.1	22
71	Quantitative Hydrogen Analysis of Zircaloy-4 Using Low-Pressure Laser Plasma Technique. Analytical Chemistry, 2007, 79, 2703-2707.	6.5	38
72	Some notes on the role of meta-stable excited state of helium atom in laser-induced helium gas breakdown spectroscopy. Applied Physics B: Lasers and Optics, 2007, 86, 729-734.	2.2	25

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73	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
74	Quantitative Analysis of Deuterium Using Laser-Induced Plasma at Low Pressure of Helium. <i>Analytical Chemistry</i> , 2006, 78, 5768-5773.	6.5	20
75	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
76	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
77	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
78	Preliminary analysis of C and H in a "Sangiran" fossil using laser-induced plasma at reduced pressure. <i>Journal of Applied Physics</i> , 2005, 98, 093307.	2.5	26
79	Low Pressure Plasma Confined in a Miniature Cylindrical Chamber and Its Application for In-Situ Elemental Analysis. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 202-209.	1.5	9
80	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
81	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
82	Hydrogen analysis in solid samples using laser-induced helium plasma at atmospheric pressure. <i>Journal of Applied Physics</i> , 2005, 98, 043105.	2.5	20
83	Quantitative Analysis of Liquid by Quick Freezing Into Ice Using Nd-YAG Laser-Induced Atmospheric Plasma. <i>ITB Journal of Engineering Science</i> , 2005, 37, 49-65.	0.1	0
84	Characteristics of Hydrogen Emission in Laser Plasma Induced by Focusing Fundamental Q-sw YAG Laser on Solid Samples. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 4221-4228.	1.5	30
85	Confinement effect in enhancing shock wave plasma generation at low pressure by TEA CO ₂ laser bombardment on quartz sample. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 531-542.	2.9	13
86	Confinement Effect of Primary Plasma on Glass Sample Induced by Irradiation of Nd-YAG Laser at Low Pressure. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 5938-5941.	1.5	6
87	Shock wave plasma induced by TEA CO ₂ laser bombardment on glass samples at high pressures. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 1591-1599.	2.9	28
88	Subtarget Effect on Laser Plasma Generated by Transversely Excited Atmospheric CO ₂ Laser at Atmospheric Gas Pressure. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 2643-2646.	1.5	30
89	Coincidence of Density Jump and Plasma Emission Front Induced by Transversely Excited Atmospheric-Pressure CO ₂ Laser Bombardment at Low and High Pressures. <i>Japanese Journal of Applied Physics</i> , 2000, 39, L601-L603.	1.5	16
90	The Role of Sub-Target in the Transversely Excited Atmospheric Pressure CO ₂ Laser-Induced Shock-Wave Plasma. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 6628-6632.	1.5	15