GÃ¡bor GalbÃ¡cs

List of Publications by Year
in descending order

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Version: 2024-02-01

89	1,947	236925	302126
papers	citations	25 h-index	39 g-index

91	91	91	2105
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Qualitative Analysis of Glass Microfragments Using the Combination of Laser-Induced Breakdown Spectroscopy and Refractive Index Data. Sensors, 2022, 22, 3045.	3.8	5
2	Laser-induced breakdown spectroscopy signal enhancement effect for argon caused by the presence of gold nanoparticles. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 193, 106435.	2.9	5
3	A novel approach for discovering correlations between elemental and molecular composition using laser-based spectroscopic techniques. Analyst, The, 2022, 147, 3248-3257.	3.5	6
4	Multifunctional microfluidic chips for the single particle inductively coupled plasma mass spectrometry analysis of inorganic nanoparticles. Lab on A Chip, 2022, 22, 2766-2776.	6.0	4
5	Egy- Ã©s tÃ¶bbkomponensÅ± plazmonikus nanorÃ©szecskÃ©k szikra-plazma alapÃº elÅ‘Ã¡llÃtÃ¡sa Ã©s alkalmazÃ¡suk a felÃ¼leterÅ‘sÃtett Raman spektroszkÃ³piÃ¡ban. , 2021, , .		0
6	Methodology and applications of elemental mapping by laser induced breakdown spectroscopy. Analytica Chimica Acta, 2021, 1147, 72-98.	5.4	92
7	Full range tuning of the composition of Au/Ag binary nanoparticles by spark discharge generation. Scientific Reports, 2021, 11, 5117.	3.3	19
8	One-step fabrication of fiber optic SERS sensors via spark ablation. Nanotechnology, 2021, 32, 395501.	2.6	6
9	A Comprehensive Study of the Ca²⁺ Ion Binding of Fluorescently Labelled BAPTA Analogues. European Journal of Organic Chemistry, 2021, 2021, 5248-5261.	2.4	6
10	Optical modeling of the characteristics of dual reflective grating spatial heterodyne spectrometers for use in laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 183, 106236.	2.9	3
11	Nanoparticles in analytical laser and plasma spectroscopy â€“ a review of recent developments in methodology and applications. Journal of Analytical Atomic Spectrometry, 2021, 36, 1826-1872.	3.0	20
12	Classification of minerals and the assessment of lithium and beryllium content in granitoid rocks by laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2021, 36, 813-823.	3.0	20
13	Synthesis and Fluorescence Mechanism of the Aminoimidazolone Analogues of the Green Fluorescent Protein: Towards Advanced Dyes with Enhanced Stokes Shift, Quantum Yield and Twoâ€Photon Absorption. European Journal of Organic Chemistry, 2021, 2021, 5649-5660.	2.4	9
14	Modulation of the catalytic activity of a metallonuclease by tagging with oligohistidine. Journal of Inorganic Biochemistry, 2020, 206, 111013.	3.5	5
15	Facile and versatile substrate fabrication for surface enhanced Raman spectroscopy using spark discharge generation of Au/Ag nanoparticles. Applied Surface Science, 2020, 531, 147268.	6.1	15
16	Species-specific sensitivity of Eisenia earthworms towards noble metal nanoparticles: a multiparametric in vitro study. Environmental Science: Nano, 2020, 7, 3509-3525.	4.3	6
17	Porosity determination of nano- and sub-micron particles by single particle inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2020, 35, 1139-1147.	3.0	18
18	Nanoparticle enhanced laser induced breakdown spectroscopy of liquid samples by using modified surface-enhanced Raman scattering substrates. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 166, 105793.	2.9	26

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19	Deuterium analysis by inductively coupled plasma mass spectrometry using polyatomic species: An experimental study supported by plasma chemistry modeling. Analytica Chimica Acta, 2020, 1104, 28-37.	5.4	7
20	Analysis and Classification of Liquid Samples Using Spatial Heterodyne Raman Spectroscopy. Applied Spectroscopy, 2019, 73, 1409-1419.	2.2	9
21	Qualitative discrimination of coal aerosols by using the statistical evaluation of laser-induced breakdown spectroscopy data. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 153, 34-41.	2.9	18
22	Hg²⁺and Cd²⁺binding of a bioinspired hexapeptide with two cysteine units constructed as a minimalistic metal ion sensing fluorescent probe. Dalton Transactions, 2019, 48, 8327-8339.	3.3	6
23	Synthesis and spectroscopic characterization of novel GFP chromophore analogues based on aminoimidazolone derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 218, 161-170.	3.9	9
24	Designed Pt Promoted 3D Mesoporous Co3O4 Catalyst in CO2 Hydrogenation. Journal of Nanoscience and Nanotechnology, 2019, 19, 436-441.	0.9	5
25	Gold Size Effect in the Thermal-Induced Reaction of CO₂ and H₂ on Titania- and Titanate Nanotube-Supported Gold Catalysts. Journal of Nanoscience and Nanotechnology, 2019, 19, 470-477.	0.9	13
26	Size-Dependent H₂ Sensing Over Supported Pt Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 459-464.	0.9	2
27	Surface features and energy considerations related to the erosion processes of Cu and Ni electrodes in a spark discharge nanoparticle generator. Journal of Aerosol Science, 2018, 119, 51-61.	3.8	12
28	Thermo-optical properties of residential coals and combustion aerosols. Atmospheric Environment, 2018, 178, 118-128.	4.1	19
29	The effect of circuit resistance on the particle output of a spark discharge nanoparticle generator. Journal of Aerosol Science, 2018, 118, 59-63.	3.8	17
30	Magnetic Phase Transition in Spark-Produced Ternary LaFeSi Nanoalloys. ACS Applied Materials & Interfaces, 2018, 10, 6073-6078.	8.0	29
31	Partial mummification and extraordinary context observed in perinate burials: a complex osteoarcheological study applying ICP-AES, Î¼XRF, and macromorphological methods. Archaeological and Anthropological Sciences, 2018, 10, 685-695.	1.8	0
32	Determination of the structure and composition of Au-Ag bimetallic spherical nanoparticles using single particle ICP-MS measurements performed with normal and high temporal resolution. Talanta, 2018, 179, 193-199.	5.5	28
33	Niosomes decorated with dual ligands targeting brain endothelial transporters increase cargo penetration across the blood-brain barrier. European Journal of Pharmaceutical Sciences, 2018, 123, 228-240.	4.0	38
34	Silica-Based Catalyst Supports Are Inert, Are They Not?: Striking Differences in Ethanol Decomposition Reaction Originated from Meso- and Surface-Fine-Structure Evidenced by Small-Angle X-ray Scattering. Journal of Physical Chemistry C, 2017, 121, 5130-5136.	3.1	12
35	Characterization of a copper spark discharge plasma in argon atmosphere used for nanoparticle generation. Plasma Sources Science and Technology, 2017, 26, 045001.	3.1	19
36	Optimization of plasma sampling depth and aerosol gas flow rates for single particle inductively coupled plasma mass spectrometry analysis. Talanta, 2017, 172, 147-154.	5.5	15

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37	Determination of the platinum concentration of a Pt/silica nanocomposite decorated with ultra small Pt nanoparticles using single particle inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2017, 32, 996-1003.	3.0	21
38	From plasma to nanoparticles: optical and particle emission of a spark discharge generator. Nanotechnology, 2017, 28, 475603.	2.6	21
39	Dimensional characterization of gold nanorods by combining millisecond and microsecond temporal resolution single particle ICP-MS measurements. Journal of Analytical Atomic Spectrometry, 2017, 32, 2455-2462.	3.0	24
40	Protective effect of green tea against neuro-functional alterations in rats treated with MnO2nanoparticles. Journal of the Science of Food and Agriculture, 2017, 97, 1717-1724.	3.5	2
41	Silybum marianum (milk thistle) products in Wilsonâ€™s disease: a treatment or a threat?. Journal of Herbal Medicine, 2016, 6, 157-159.	2.0	6
42	Cd(II) Capture Ability of an Immobilized, Fluorescent Hexapeptide. Bulletin of the Chemical Society of Japan, 2016, 89, 243-253.	3.2	3
43	The feasibility of liquid sample microanalysis using polydimethylsiloxane microfluidic chips with in-channel and in-port laser-induced breakdown spectroscopy detection. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 126, 23-30.	2.9	9
44	Qualitative Discrimination Analysis of Coals Based on Their Laser-Induced Breakdown Spectra. Energy & Fuels, 2016, 30, 10306-10313.	5.1	14
45	On the applicability and performance of the single particle ICP-MS nano-dispersion characterization method in cases complicated by spectral interferences. Journal of Analytical Atomic Spectrometry, 2016, 31, 1112-1122.	3.0	29
46	Observation of fine-ordered patterns on electrode surfaces subjected to extensive erosion in a spark discharge. Journal of Aerosol Science, 2016, 93, 16-20.	3.8	13
47	A time-resolved imaging and electrical study on a high current atmospheric pressure spark discharge. Journal of Applied Physics, 2015, 118, .	2.5	48
48	A critical review of recent progress in analytical laser-induced breakdown spectroscopy. Analytical and Bioanalytical Chemistry, 2015, 407, 7537-7562.	3.7	146
49	Synthesis, structural characterisation, and catalytic activity of Mn(II)â€“protected amino acid complexes covalently immobilised on chloropropylated silica gel. Catalysis Today, 2015, 241, 264-269.	4.4	5
50	Milk thistle in Wilson's disease: what is the pledge of safety?. Planta Medica, 2015, 81, .	1.3	0
51	Discrimination of paper and print types based on their laser induced breakdown spectra. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 94-95, 48-57.	2.9	28
52	An Assessment of the Potential of Laser-Induced Breakdown Spectroscopy (LIBS) for the Analysis of Cesium in Liquid Samples of Biological Origin. Applied Spectroscopy, 2014, 68, 789-793.	2.2	36
53	Analysis and discrimination of soldering tin samples by collinear multi-pulse laser induced breakdown spectrometry, supported by inductively coupled plasma optical emission and mass spectrometry. Microchemical Journal, 2013, 107, 17-24.	4.5	12
54	A study of stalagmite samples from Baradla Cave (Hungary) by laser induced plasma spectrometry with automatic signal correction. Microchemical Journal, 2011, 99, 406-414.	4.5	18

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55	An evaluation of the analytical performance of collinear multi-pulse laser induced breakdown spectroscopy. Microchemical Journal, 2011, 97, 255-263.	4.5	28
56	A Study of Ablation, Spatial, and Temporal Characteristics of Laser-Induced Plasmas Generated by Multiple Collinear Pulses. Applied Spectroscopy, 2010, 64, 161-172.	2.2	30
57	Chloroplastic glutamine synthetase is activated by direct binding of aluminium. Physiologia Plantarum, 2009, 135, 43-50.	5.2	30
58	Response to the comments. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 359-360.	2.9	0
59	Accurate quantitative analysis of gold alloys using multi-pulse laser induced breakdown spectroscopy and a correlation-based calibration method. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 591-597.	2.9	47
60	A pH-Metric, UV, NMR, and X-ray Crystallographic Study on Arsenous Acid Reacting with Dithioerythritol. Inorganic Chemistry, 2008, 47, 3832-3840.	4.0	24
61	Magnetic iron oxide/clay composites: effect of the layer silicate support on the microstructure and phase formation of magnetic nanoparticles. Nanotechnology, 2007, 18, 285602.	2.6	55
62	Structural properties and photocatalytic behaviour of phosphate-modified nanocrystalline titania films. Applied Catalysis B: Environmental, 2007, 77, 175-183.	20.2	67
63	A Review of Applications and Experimental Improvements Related to Diode Laser Atomic Spectroscopy. Applied Spectroscopy Reviews, 2006, 41, 259-303.	6.7	49
64	Preparation and structural characterization of [Ph3Sn(IV)]+ complexes with pyridine-carboxylic acids or hydroxypyridine, -pyrimidine and -quinoline. Journal of Organometallic Chemistry, 2006, 691, 1622-1630.	1.8	25
65	An in vitro study of interactions between insulin-mimetic zinc(II) complexes and selected plasma components. Journal of Inorganic Biochemistry, 2006, 100, 1936-1945.	3.5	14
66	The activity of Au supported on various types of carbon in the ring transformation reactions of methyloxirane. Reaction Kinetics and Catalysis Letters, 2006, 87, 343-348.	0.6	5
67	Assessment and application of diode laser induced fluorescence spectrometry in an inductively coupled plasma to the determination of lithium. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 299-306.	2.9	11
68	Recyclable ligand-free mesoporous heterogeneous Pd catalysts for Heck coupling. Tetrahedron Letters, 2005, 46, 7725-7728.	1.4	82
69	The effect of sonication on glass electrodes. Talanta, 2005, 66, 809-812.	5.5	5
70	Multi-pulse laser-induced plasma spectroscopy using a single laser source and a compact spectrometer. Journal of Analytical Atomic Spectrometry, 2005, 20, 974.	3.0	42
71	Generalization of a new calibration method based on linear correlation. Talanta, 2004, 63, 351-357.	5.5	13
72	Measurement and Modeling of Ozone and Nitrogen Oxides Produced by Laser Breakdown in Oxygenâ€"Nitrogen Atmospheres. Applied Spectroscopy, 2003, 57, 1442-1450.	2.2	9

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73	Construction and characterization of a diode laser system for atomic spectrometric experiments. Microchemical Journal, 2002, 73, 27-38.	4.5	7
74	Effects of Continuous Low-Dose Exposure to Organic and Inorganic Mercury During Development on Epileptogenicity in Rats. NeuroToxicology, 2002, 23, 197-206.	3.0	23
75	Mechanical and chemical breaking of multiwalled carbon nanotubes. Catalysis Today, 2002, 76, 3-10.	4.4	47
76	Oxidation of hydrocarbons by O2 in the presence of VO(acac)2 as catalyst. Journal of Molecular Catalysis A, 2002, 179, 65-72.	4.8	15
77	Laser-assisted metal deposition from liquid-phase precursors on polymers. Applied Surface Science, 2001, 172, 178-189.	6.1	78
78	Semi-quantitative analysis of binary alloys using laser-induced breakdown spectroscopy and a new calibration approach based on linear correlation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 1159-1173.	2.9	62
79	Investigation of the catalytic behavior of ion-pair complexes of vanadium(V) in the liquid-phase oxidation of hydrocarbons with molecular O2. Journal of Molecular Catalysis A, 2000, 164, 109-124.	4.8	10
80	Reaction dynamics of CW Ar+ laser induced copper direct writing from liquid electrolyte on polyimide substrates. Applied Surface Science, 2000, 158, 127-133.	6.1	33
81	Slurry nebulization ICP-AES spectrometry method for the determination of tin in organotin(IV) complexes. Talanta, 2000, 52, 1061-1067.	5.5	13
82	Slurry nebulization ICP-AES spectrometry method for the determination of tin in organotin(IV) complexes. Talanta, 2000, 52, 1061-7.	5.5	3
83	Cadmium Ion Adsorption Controls the Growth of CdS Nanoparticles on Layered Montmorillonite and Calumit Surfaces. Journal of Colloid and Interface Science, 1999, 213, 584-591.	9.4	27
84	Mass spectrometric studies of thermal decomposition products of reference materials for use in solid sampling atomic spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1998, 53, 1335-1346.	2.9	19
85	X-ray Photoelectron Spectroscopic and Atomic Force Microscopic Studies of Pyrolytically Coated Graphite and Highly Oriented Pyrolytic Graphite Used for Electrothermal Vaporization. Journal of Analytical Atomic Spectrometry, 1997, 12, 951-955.	3.0	7
86	The Effect of Cadmium Ion Adsorption on the Growth of CdS Nanoparticles at Colloidal Silica Particle Interfaces in Binary Liquids. Journal of Colloid and Interface Science, 1997, 195, 307-315.	9.4	19
87	Determination of Cadmium in Certified Reference Materials Using Solid Sampling Electrothermal Vaporization Inductively Coupled Plasma Mass Spectrometry Supplemented with Thermogravimetric Studies. Microchemical Journal, 1996, 54, 272-286.	4.5	17
88	Use of the Ar2+signal as a diagnostic tool in solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1995, 10, 1047-1052.	3.0	44
89	Solid sampling electrothermal vaporization inductively coupled plasma atomic emission spectrometry (ETV-ICP-AES): influence of some ICP operating param. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1993, 48, 671-680.	2.9	25