

# Marin Senila

## List of Publications by Year in descending order

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87  
papers

1,247  
citations

393982

19  
h-index

476904

29  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> core-shell nanoparticles. Journal of Applied Physics, 2014, 116, .	1.1	96
2	Magnetic recoverable Fe <sub>3</sub> O <sub>4</sub> -TiO <sub>2</sub> :Eu composite nanoparticles with enhanced photocatalytic activity. Applied Surface Science, 2016, 390, 248-259.	3.1	49
3	Environmental and socioeconomic assessment of impacts by mining activities—a case study in the Certej River catchment, Western Carpathians, Romania. Environmental Science and Pollution Research, 2009, 16, 14-26.	2.7	44
4	Validation and measurement uncertainty evaluation of the ICP-OES method for the multi-elemental determination of essential and nonessential elements from medicinal plants and their aqueous extracts. Journal of Analytical Science and Technology, 2014, 5, .	1.0	42
5	Removal of Lead(II), Cadmium(II), and Arsenic(III) from Aqueous Solution Using Magnetite Nanoparticles Prepared by Green Synthesis with Box—Behnken Design. Analytical Letters, 2018, 51, 2519-2531.	1.0	38
6	Simultaneous determination of As and Sb in soil using hydride generation capacitively coupled plasma microtorch optical emission spectrometry — comparison with inductively coupled plasma optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2014, 29, 1880-1888.	1.6	36
7	New properties of Fe <sub>3</sub> O <sub>4</sub> @SnO <sub>2</sub> core shell nanoparticles following interface charge/spin transfer. Applied Surface Science, 2018, 427, 192-201.	3.1	36
8	Assessment of metals bioavailability to vegetables under field conditions using DGT, single extractions and multivariate statistics. Chemistry Central Journal, 2012, 6, 119.	2.6	34
9	Sulfide oxidation and acid mine drainage formation within two active tailings impoundments in the Golden Quadrangle of the Apuseni Mountains, Romania. Journal of Hazardous Materials, 2011, 189, 624-639.	6.5	33
10	ASSESSMENT OF HEAVY METALS IN COWS MILK IN RODNEI MOUNTAINS AREA, ROMANIA. Environmental Engineering and Management Journal, 2015, 14, 2523-2528.	0.2	32
11	New method for mercury determination in microwave digested soil samples based on cold vapor capacitively coupled plasma microtorch optical emission spectrometry: Comparison with atomic fluorescence spectrometry. Microchemical Journal, 2013, 110, 545-552.	2.3	31
12	Low power capacitively coupled plasma microtorch for simultaneous multielemental determination by atomic emission using microspectrometers. Microchemical Journal, 2011, 97, 188-195.	2.3	27
13	Spatio-temporal insights into microbiology of the freshwater—hypersaline, oxic—hypoxic—euxinic waters of Ūrsu Lake. Environmental Microbiology, 2021, 23, 3523-3540.	1.8	25
14	Effects of Thermal Treatment on Natural Clinoptilolite-Rich Zeolite Behavior in Simulated Biological Fluids. Molecules, 2020, 25, 2570.	1.7	24
15	Bioethanol Production from Vineyard Waste by Autohydrolysis Pretreatment and Chlorite Delignification via Simultaneous Saccharification and Fermentation. Molecules, 2020, 25, 2606.	1.7	24
16	Methylmercury determination in seafood by photochemical vapor generation capacitively coupled plasma microtorch optical emission spectrometry. Talanta, 2017, 170, 464-472.	2.9	22
17	Characterisation of soil quality and mobility of Cd, Cu, Pb and Zn in the Baia Mare area Northwest Romania following the historical pollution. International Journal of Environmental Analytical Chemistry, 2009, 89, 635-649.	1.8	21
18	Assessment of Availability and Human Health Risk Posed by Arsenic Contaminated Well Waters from Timis-Bega Area, Romania. Journal of Analytical Methods in Chemistry, 2017, 2017, 1-7.	0.7	21

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19	Real and simulated bioavailability of lead in contaminated and uncontaminated soils. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2014, 12, 108.	1.4	20
20	Chemical, Nutritional and Antioxidant Characteristics of Different Food Seeds. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1589.	1.3	20
21	Kinetics and Equilibrium Studies for the Removal of Mn and Fe from Binary Metal Solution Systems Using a Romanian Thermally Activated Natural Zeolite. <i>Water (Switzerland)</i> , 2020, 12, 1614.	1.2	20
22	New Composite Bone Cement Based on Hydroxyapatite and Nanosilver. <i>Particulate Science and Technology</i> , 2013, 31, 392-398.	1.1	19
23	Chemical modeling of groundwater in the Banat Plain, southwestern Romania, with elevated As content and co-occurring species by combining diagrams and unsupervised multivariate statistical approaches. <i>Chemosphere</i> , 2017, 172, 127-137.	4.2	19
24	Eco-scale non-chromatographic method for mercury speciation in fish using formic acid extraction and UV-Vis photochemical vapor generation capacitively coupled plasma microtorch optical emission spectrometry. <i>Microchemical Journal</i> , 2018, 141, 155-162.	2.3	19
25	Mercury Determination in Natural Zeolites by Thermal Decomposition Atomic Absorption Spectrometry: Method Validation in Compliance with Requirements for Use as Dietary Supplements. <i>Molecules</i> , 2019, 24, 4023.	1.7	19
26	Evaluation of Various Inorganic and Biological Extraction Techniques Suitability for Soil Mercury Phytoavailable Fraction Assessment. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	18
27	Mercury speciation in fish tissue by eco-scale thermal decomposition atomic absorption spectrometry: method validation and risk exposure to methylmercury. <i>Chemical Papers</i> , 2018, 72, 441-448.	1.0	18
28	Mercury in soil and perennial plants in a mining-affected urban area from Northwestern Romania. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 614-621.	0.9	17
29	Simultaneous Removal of Heavy Metals (Cu, Cd, Cr, Ni, Zn and Pb) from Aqueous Solutions Using Thermally Treated Romanian Zeolitic Volcanic Tuff. <i>Molecules</i> , 2022, 27, 3938.	1.7	17
30	Evaluation of figures of merit for Zn determination in environmental and biological samples using EDL excited AFS in a new radiofrequency capacitively coupled plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 739.	1.6	16
31	Sono-induced cold vapour generation interfaced with capacitively coupled plasma microtorch optical emission spectrometry: analytical characterization and comparison with atomic fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1161-1168.	1.6	16
32	Analytical characterization of a method for mercury determination in food using cold vapour capacitively coupled plasma microtorch optical emission spectrometry – compliance with European legislation requirements. <i>Analytical Methods</i> , 2015, 7, 747-752.	1.3	16
33	Determination of Cd in food using an electrothermal vaporization capacitively coupled plasma microtorch optical emission microspectrometer: Compliance with European legislation and comparison with graphite furnace atomic absorption spectrometry. <i>Food Control</i> , 2016, 61, 227-234.	2.8	16
34	Mercury speciation in seafood using non-chromatographic chemical vapor generation capacitively coupled plasma microtorch optical emission spectrometry method – Evaluation of methylmercury exposure. <i>Food Control</i> , 2017, 82, 266-273.	2.8	16
35	INFLUENCE OF ROSIA POIENI AND ROSIA MONTANA MINING AREAS ON THE WATER QUALITY OF THE ARIES RIVER. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 23-29.	0.2	16
36	Preliminary investigation of a medium power argon radiofrequency capacitively coupled plasma as atomization cell in atomic fluorescence spectrometry of cadmium. <i>Talanta</i> , 2008, 76, 1170-1176.	2.9	15

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37	A highly sensitive eco-scale method for mercury determination in water and food using photochemical vapor generation and miniaturized instrumentation for capacitively coupled plasma microtorch optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 799-808.	1.6	15
38	Simulated Bioavailability of Heavy Metals (Cd, Cr, Cu, Pb, Zn) in Contaminated Soil Amended with Natural Zeolite Using Diffusive Gradients in Thin-Films (DGT) Technique. <i>Agriculture (Switzerland)</i> , 2022, 12, 321.	1.4	15
39	Assessment of contamination and origin of metals in mining affected river sediments: A case study of the Aries catchment, Romania. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 1019-1036.	0.4	14
40	Determination of Total Mercury in Fish Tissue Using a Low-Cost Cold Vapor Capacitively Coupled Plasma Microtorch Optical Emission Microspectrometer: Comparison with Direct Mercury Determination by Thermal Decomposition Atomic Absorption Spectrometry. <i>Food Analytical Methods</i> , 2015, 8, 643-648.	1.3	14
41	Promising polymer-assisted extraction of palladium from supported catalysts in supercritical carbon dioxide. <i>Journal of CO2 Utilization</i> , 2020, 41, 101232.	3.3	13
42	Investigations on optical, structural and thermal properties of phosphate glasses containing terbium ions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 47, 012025.	0.3	12
43	Performance Parameters of Inductively Coupled Plasma Optical Emission Spectrometry and Graphite Furnace Atomic Absorption Spectrometry Techniques for Pd and Pt Determination in Automotive Catalysts. <i>Materials</i> , 2020, 13, 5136.	1.3	12
44	Interference-free, green microanalytical method for total mercury and methylmercury determination in biological and environmental samples using small-sized electrothermal vaporization capacitively coupled plasma microtorch optical emission spectrometry. <i>Talanta</i> , 2020, 217, 121067.	2.9	12
45	Rapid Determination of Trace Elements in Macedonian Grape Brandies for Their Characterization and Safety Evaluation. <i>Food Analytical Methods</i> , 2017, 10, 459-468.	1.3	11
46	Immobilization of Potentially Toxic Elements in Contaminated Soils Using Thermally Treated Natural Zeolite. <i>Materials</i> , 2021, 14, 3777.	1.3	11
47	ASSESSMENT OF METAL CONTAMINATION AND ECOLOGICAL RISK IN URBAN SOILS SITUATED NEAR A METALLURGICAL COMPLEX. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 1623-1630.	0.2	11
48	Characterization of <i>Lycium barbarum</i> L. berry cultivated in North Macedonia: A chemometric approach. <i>Journal of Berry Research</i> , 2020, 10, 223-241.	0.7	10
49	Sustainable Biomass Pellets Production Using Vineyard Wastes. <i>Agriculture (Switzerland)</i> , 2020, 10, 501.	1.4	10
50	The Potential Application of Natural Clinoptilolite-Rich Zeolite as Support for Bacterial Community Formation for Wastewater Treatment. <i>Materials</i> , 2022, 15, 3685.	1.3	9
51	Effect of titanium ions on the ion release rate and uptake at the interface of silica based xerogels with simulated body fluid. <i>Corrosion Science</i> , 2013, 72, 41-46.	3.0	8
52	Preliminary Investigation concerning Metals Bioavailability in Waters of Aries River Catchment by Using the Diffusive Gradients in Thin Films Technique. <i>Journal of Chemistry</i> , 2015, 2015, 1-8.	0.9	8
53	Epitaxial La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> nanostructures obtained by polymer-assisted surface decoration (PASD). <i>Materials Letters</i> , 2016, 171, 281-284.	1.3	8
54	Autohydrolysis Pretreatment and Delignification of Silver Fir Wood to Obtain Fermentable Sugars for Bioethanol Production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015, 37, 1890-1895.	1.2	7

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55	INFLUENCE OF POLLUTION LEVEL ON HEAVY METALS MOBILITY IN SOIL FROM NW ROMANIA. Environmental Engineering and Management Journal, 2011, 10, 59-64.	0.2	7
56	Development and Validation of a Spectrometric Method for Cd and Pb Determination in Zeolites and Safety Evaluation. Molecules, 2020, 25, 2591.	1.7	6
57	The Autohydrolysis of Abies Alba Wood Using Adaptive Neural Fuzzy Interference System Mathematical Modeling. International Journal of Green Energy, 2014, 11, 611-624.	2.1	5
58	Catalytic wet air oxidation of bisphenol A solution in a batch-recycle trickle-bed reactor over titanate nanotube-based catalysts. Environmental Science and Pollution Research, 2014, 21, 11313-11319.	2.7	5
59	Lab-scale experimental investigation concerning <i>ex-situ</i> bioremediation of petroleum hydrocarbons-contaminated soils. Soil and Sediment Contamination, 2018, 27, 692-705.	1.1	5
60	Analytical performances and validation of optical emission and atomic absorption spectrometry methods for multielemental determination in vegetables and fruits. Revue Roumaine De Chimie, 2020, 65, 735-745.	0.4	5
61	Characterization of Biobriquettes Produced from Vineyard Wastes as a Solid Biofuel Resource. Agriculture (Switzerland), 2022, 12, 341.	1.4	5
62	Analytical Performance and Validation of a Reliable Method Based on Graphite Furnace Atomic Absorption Spectrometry for the Determination of Gold Nanoparticles in Biological Tissues. Nanomaterials, 2021, 11, 3370.	1.9	5
63	Characteristics of Volcanic Tuff from Macicasu (Romania) and Its Capacity to Remove Ammonia from Contaminated Air. Molecules, 2022, 27, 3503.	1.7	5
64	Physiological response to silver toxicity in the extremely halophilic archaeon Halomicrobium mukohataei. FEMS Microbiology Letters, 2019, 366, .	0.7	4
65	Removal of Methylene Blue on Thermally Treated Natural Zeolites. Analytical Letters, 2022, 55, 226-236.	1.0	4
66	Comprehensive mineralogical and physicochemical characterization of recent sapropels from Romanian saline lakes for potential use in pelotherapy. Scientific Reports, 2021, 11, 18633.	1.6	4
67	BIOETHANOL PRODUCTION FROM ABIES ALBA WOOD USING ADAPTIVE NEURAL FUZZY INTERFERENCE SYSTEM MATHEMATICAL MODELING. Cellulose Chemistry and Technology, 2020, 54, 53-64.	0.5	4
68	Application of Inductively Coupled Plasma Spectrometric Techniques and Multivariate Statistical Analysis in the Hydrogeochemical Profiling of Caves – Case Study Cloșani, Romania. Molecules, 2021, 26, 6788.	1.7	4
69	Characterization of the Nuclear Magnetic Resonance Relaxivity of Gadolinium Functionalized Magnetic Nanoparticles. Analytical Letters, 2021, 54, 124-139.	1.0	3
70	Supercritical CO <sub>2</sub> Extraction of Palladium Oxide from an Aluminosilicate-Supported Catalyst Enhanced by a Combination of Complexing Polymers and Piperidine. Molecules, 2021, 26, 684.	1.7	3
71	PHYTOEXTRACTION OF HEAVY METALS FROM INDUSTRIALLY POLLUTED ZONE USING Lolium perenne AND Lemna minor. Environmental Engineering and Management Journal, 2013, 12, 1103-1108.	0.2	3
72	Exploring the Properties of Micronized Natural Zeolitic Volcanic Tuff as Cosmetic Ingredient. Materials, 2022, 15, 2405.	1.3	3

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73	Unexpected toxicity to aquatic organisms of some aqueous bisphenol A samples treated by advanced oxidation processes. <i>Water Science and Technology</i> , 2015, 72, 29-37.	1.2	2
74	A novel therapeutic phosphate-based glass improves full-thickness wound healing in a rat model. <i>Biotechnology Journal</i> , 2021, 16, e2100031.	1.8	2
75	ASSESSMENT OF MERCURY AVAILABILITY IN WATER SAMPLES USING DGT AND TD-AAS TECHNIQUES. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 1515-1520.	0.2	2
76	ASSESSMENT OF POLLUTANTS INPUT OF ACID MINE DRAINAGE AND DOMESTIC ACTIVITIES IN ARIES RIVER WATER, ROMANIA - A CHEMOMETRIC APPROACH. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 2567-2576.	0.2	2
77	Synthesis and Phase Behavior of a Platform of CO <sub>2</sub> -Soluble Functional Gradient Copolymers Bearing Metal-Complexing Units. <i>Polymers</i> , 2022, 14, 2698.	2.0	2
78	Study of Cu and Pb partitioning in mine tailings using the Tessier sequential extraction scheme. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
79	Determination of Furfural from Vineyard Waste by Ultra-High Performance Liquid Chromatography with Diode Array Detection (UHPLC-DAD) with Method Validation and Uncertainty Evaluation. <i>Analytical Letters</i> , 2022, 55, 665-674.	1.0	1
80	LEVELS OF METALS AND ORGANOCHLORINE COMPOUNDS IN SEAFOOD CONSUMED IN CLUJ-NAPOCA, ROMANIA. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 133-140.	0.2	1
81	NATURAL AND ACTIVATED ZEOLITES AS EFFECTIVE ADSORBENTS IN DRINKING WATER AND WASTEWATER TREATMENT. , 2020, , .		1
82	Single Source Precursor for PAD-LaMnO <sub>3</sub> Thin Films. <i>Crystals</i> , 2020, 10, 851.	1.0	0
83	CHEMICAL PARAMETERS OF WELL WATERS IN AN AREA AFFECTED BY FLOOD EVENTS: CASE STUDY OF TIMIS-BEGA AREA, ROMANIA. , 2014, , .		0
84	GROUNDWATER CHARACTERIZATION IN SOUTHWESTERN ROMANIA USING FUZZY HIERARCHICAL CROSS CLUSTERING. <i>Environmental Engineering and Management Journal</i> , 2019, 18, 1967-1976.	0.2	0
85	VALIDATION OF THE INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRY METHOD FOR METALS DETERMINATION IN ZEOLITE SAMPLES. , 2019, , .		0
86	PRELIMINARY STUDY ON THE ADSORPTION OF PETROLEUM HYDROCARBONS USING NATURAL ZEOLITIC TUFF FROM ROMANIA. , 2020, , .		0
87	STUDIES ON THE MODIFICATION OF SOME NATURAL ZEOLITE FROM ROMANIA AFTER ACID AND BASIC TREATMENTS. , 2020, , .		0