

# Oana Cadar

## List of Publications by Year in descending order

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92  
papers

2,217  
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159358

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264894

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92  
docs citations

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times ranked

1392  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Synthesis and Applications of MFe <sub>2</sub> O <sub>4</sub> (M = Co, Cu, Mn, Ni, Zn) Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 1560.	1.9	168
2	Formation, Structure and Magnetic Properties of MFe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> (M = Co, Mn, Zn, Ni, Cu) Nanocomposites. <i>Materials</i> , 2021, 14, 1139.	1.3	73
3	Influence of Cu <sup>2+</sup> , Ni <sup>2+</sup> , and Zn <sup>2+</sup> Ions Doping on the Structure, Morphology, and Magnetic Properties of Co-Ferrite Embedded in SiO <sub>2</sub> Matrix Obtained by an Innovative Sol-Gel Route. <i>Nanomaterials</i> , 2020, 10, 580.	1.9	68
4	Effect of amorphous SiO <sub>2</sub> matrix on structural and magnetic properties of Cu <sub>0.6</sub> Co <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156695.	2.8	64
5	The impact of polyol structure on the formation of Zn <sub>0.6</sub> Co <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> spinel-based pigments. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 736-744.	1.1	57
6	Investigation of thermal, structural, morphological and photocatalytic properties of Cu <sub>x</sub> Co <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> (0 ≤ x ≤ 1) nanoparticles embedded in SiO <sub>2</sub> matrix. <i>Materials Characterization</i> , 2020, 163, 110268.	1.9	56
7	Metal (Pb, Cu, Cd, and Zn) Transfer along Food Chain and Health Risk Assessment through Raw Milk Consumption from Free-Range Cows. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4064.	1.2	53
8	Influence of polyol structure and molecular weight on the shape and properties of Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles obtained by sol-gel synthesis. <i>Ceramics International</i> , 2019, 45, 7458-7467.	2.3	52
9	Effect of Silica Embedding on the Structure, Morphology and Magnetic Behavior of (Zn <sub>0.6</sub> Mn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> ) <sub>1-x</sub> (SiO <sub>2</sub> ) <sub>x</sub> Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 2232.	1.9	52
10	Dependence of Structural, Morphological and Magnetic Properties of Manganese Ferrite on Ni-Mn Substitution. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3097.	1.8	52
11	Effect of nickel content on structural, morphological and magnetic properties of Ni <sub>1-x</sub> Co <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites. <i>Journal of Alloys and Compounds</i> , 2019, 786, 330-340.	2.8	51
12	A possible formation mechanism and photocatalytic properties of CoFe <sub>2</sub> O <sub>4</sub> /PVA-SiO <sub>2</sub> nanocomposites. <i>Thermochimica Acta</i> , 2018, 666, 103-115.	1.2	49
13	Investigation of structural and magnetic properties of Ni <sub>x</sub> Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> (0 ≤ x ≤ 1) spinel-based nanocomposites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 144, 104713.	2.6	49
14	Impact of Cu <sup>2+</sup> substitution by Co <sup>2+</sup> on the structural and magnetic properties of CuFe <sub>2</sub> O <sub>4</sub> synthesized by sol-gel route. <i>Materials Characterization</i> , 2020, 163, 110248.	1.9	48
15	Effect of annealing on the structure and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> :SiO <sub>2</sub> nanocomposites. <i>Ceramics International</i> , 2017, 43, 9145-9152.	2.3	45
16	Structure and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites obtained by sol-gel and post annealing pathways. <i>Ceramics International</i> , 2017, 43, 2113-2122.	2.3	45
17	Sol-gel synthesis of CoFe <sub>2</sub> O <sub>4</sub> :SiO <sub>2</sub> nanocomposites – insights into the thermal decomposition process of precursors. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 169-177.	2.6	44
18	Thermal behavior of Co <sub>x</sub> Fe <sub>3-2x</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites obtained by a modified sol-gel method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 39-52.	2.0	44

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19	Formation of CoFe <sub>2</sub> O <sub>4</sub> /PVA-SiO <sub>2</sub> nanocomposites: Effect of diol chain length on the structure and magnetic properties. <i>Ceramics International</i> , 2018, 44, 10478-10485.	2.3	44
20	Effect of Zn content on structural, morphological and magnetic behavior of Zn <sub>x</sub> Co <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites. <i>Journal of Alloys and Compounds</i> , 2019, 792, 432-443.	2.8	44
21	Influence of zinc substitution with cobalt on thermal behaviour, structure and morphology of zinc ferrite embedded in silica matrix. <i>Journal of Solid State Chemistry</i> , 2019, 275, 159-166.	1.4	43
22	Influence of ferrite to silica ratio and thermal treatment on porosity, surface, microstructure and magnetic properties of Zn <sub>0.5</sub> Ni <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154409.	2.8	43
23	Size and shape-controlled synthesis and characterization of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles embedded in a PVA-SiO <sub>2</sub> hybrid matrix. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 121-130.	2.6	42
24	Microstructure, porosity and magnetic properties of Zn <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites prepared by sol-gel method using different polyols. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166168.	1.0	42
25	Impact of annealing temperature and ferrite content embedded in SiO <sub>2</sub> matrix on the structure, morphology and magnetic characteristics of (Co <sub>0.4</sub> Mn <sub>0.6</sub> Fe <sub>2</sub> O <sub>4</sub> ) <sub>1-x</sub> (SiO <sub>2</sub> ) <sub>100-x</sub> nanocomposites. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159203.	2.8	42
26	Influence of cobalt ferrite content on the structure and magnetic properties of (CoFe <sub>2</sub> O <sub>4</sub> ) <sub>x</sub> (SiO <sub>2</sub> -PVA) <sub>100-x</sub> nanocomposites. <i>Ceramics International</i> , 2018, 44, 7891-7901.	2.3	41
27	Thermal behavior of Ni, Co and Fe succinates embedded in silica matrix. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1587-1596.	2.0	41
28	Preparation of CoFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> Nanocomposites at Low Temperatures Using Short Chain Diols. <i>Journal of Chemistry</i> , 2017, 2017, 1-11.	0.9	35
29	Ion release from hydroxyapatite and substituted hydroxyapatites in different immersion liquids: <i>in vitro</i> experiments and theoretical modelling study. <i>Royal Society Open Science</i> , 2021, 8, 201785.	1.1	35
30	ASSESSMENT OF HEAVY METALS IN COWS MILK IN RODNEI MOUNTAINS AREA, ROMANIA. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 2523-2528.	0.2	32
31	Investigation on the formation, structural and photocatalytic properties of mixed Mn-Zn ferrites nanoparticles embedded in SiO <sub>2</sub> matrix. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 158, 105281.	2.6	29
32	Spatio-temporal insights into microbiology of the freshwater to hypersaline, oxic to hypoxic to euxinic waters of Ūrsu Lake. <i>Environmental Microbiology</i> , 2021, 23, 3523-3540.	1.8	25
33	Effects of Thermal Treatment on Natural Clinoptilolite-Rich Zeolite Behavior in Simulated Biological Fluids. <i>Molecules</i> , 2020, 25, 2570.	1.7	24
34	Bioethanol Production from Vineyard Waste by Autohydrolysis Pretreatment and Chlorite Delignification via Simultaneous Saccharification and Fermentation. <i>Molecules</i> , 2020, 25, 2606.	1.7	24
35	Preparation and Characterization of Doxycycline-Loaded Electrospun PLA/HAP Nanofibers as a Drug Delivery System. <i>Materials</i> , 2022, 15, 2105.	1.3	24
36	Assessment of Availability and Human Health Risk Posed by Arsenic Contaminated Well Waters from Timis-Bega Area, Romania. <i>Journal of Analytical Methods in Chemistry</i> , 2017, 2017, 1-7.	0.7	21

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37	Graphene Oxides/Carbon Nanotubes-Hydroxyapatite Nanocomposites for Biomedical Applications. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 219-227.	1.7	21
38	Orange Snow-A Saharan Dust Intrusion over Romania During Winter Conditions. <i>Remote Sensing</i> , 2019, 11, 2466.	1.8	20
39	Chemical, Nutritional and Antioxidant Characteristics of Different Food Seeds. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1589.	1.3	20
40	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
41	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
42	Determination of Major-to-Trace Minerals and Polyphenols in Different Apple Cultivars. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2014, 42, 523-529.	0.5	18
43	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
44	Influence of Mn <sup>2+</sup> substitution with Co <sup>2+</sup> on structural, morphological and coloristic properties of MnFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites. <i>Materials Characterization</i> , 2021, 172, 110835.	1.9	18
45	Water Quality and Hydrogeochemical Characteristics of Some Karst Water Sources in Apuseni Mountains, Romania. <i>Water (Switzerland)</i> , 2021, 13, 857.	1.2	17
46	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
47	Quality and Human Health Risk Assessment of Metals and Nitrogen Compounds in Drinking Water from an Urban Area Near a Former Non-Ferrous Ore Smelter. <i>Analytical Letters</i> , 2019, 52, 1268-1281.	1.0	16
48	Structural, morphological and photocatalytic properties of Ni-Mn ferrites: Influence of the Ni:Mn ratio. <i>Journal of Alloys and Compounds</i> , 2022, 913, 165129.	2.8	16
49	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
50	Metal contents and potential health risk assessment of crops grown in a former mining district (Romania). <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2018, 53, 595-601.	0.7	14
51	Assessment of Lithium, Macro- and Microelements in Water, Soil and Plant Samples from Karst Areas in Romania. <i>Materials</i> , 2021, 14, 4002.	1.3	14
52	Metal Contents and Pollution Indices Assessment of Surface Water, Soil, and Sediment from the Arieș River Basin Mining Area, Romania. <i>Sustainability</i> , 2022, 14, 8024.	1.6	14
53	Sol-Gel Synthesis, Structure, Morphology and Magnetic Properties of Ni <sub>0.6</sub> Mn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> Nanoparticles Embedded in SiO <sub>2</sub> Matrix. <i>Nanomaterials</i> , 2021, 11, 3455.	1.9	13
54	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

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55	Enhancing lipid production of <i>Synechocystis</i> PCC 6803 for biofuels production, through environmental stress exposure. <i>Renewable Energy</i> , 2019, 143, 243-251.	4.3	11
56	Immobilization of Potentially Toxic Elements in Contaminated Soils Using Thermally Treated Natural Zeolite. <i>Materials</i> , 2021, 14, 3777.	1.3	11
57	Evaluation of the Impact of Different Natural Zeolite Treatments on the Capacity of Eliminating/Reducing Odors and Toxic Compounds. <i>Materials</i> , 2021, 14, 3724.	1.3	11
58	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
59	Heavy metals and health risk assessment in vegetables grown in the vicinity of a former non-metallic facility located in Romania. <i>Environmental Science and Pollution Research</i> , 2022, 29, 40079-40093.	2.7	11
60	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
61	Sustainable Biomass Pellets Production Using Vineyard Wastes. <i>Agriculture (Switzerland)</i> , 2020, 10, 501.	1.4	10
62	Temporal Trend of PM10 and Associated Human Health Risk over the Past Decade in Cluj-Napoca City, Romania. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5331.	1.3	9
63	HYDROXYAPATITE - CARBON NANOTUBE COMPOSITES FOR DRUG DELIVERY APPLICATIONS. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 913-922.	0.7	8
64	Comparative study on physicochemical and mechanical characterization of newnanocarbon-based hydroxyapatite nanocomposites. <i>Turkish Journal of Chemistry</i> , 2019, 43, 809-824.	0.5	7
65	Use of Black Poplar Leaves for the Biomonitoring of Air Pollution in an Urban Agglomeration. <i>Plants</i> , 2021, 10, 548.	1.6	7
66	Organochlorine pesticides and dissolved organic matter within a system of urban exorheic lakes. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 59.	1.3	6
67	Spatial variation of organochlorine pesticides and dissolved organic matter in urban closed lakes. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2020, 55, 329-341.	0.7	6
68	Development and Validation of a Spectrometric Method for Cd and Pb Determination in Zeolites and Safety Evaluation. <i>Molecules</i> , 2020, 25, 2591.	1.7	6
69	Green Protocols for the Isolation of Carbohydrates from Vineyard Vine-Shoot Waste. <i>Analytical Letters</i> , 2021, 54, 70-87.	1.0	6
70	Spatial Variation of Water Chemistry in Aries River Catchment, Western Romania. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6592.	1.3	6
71	Design, in vitro bioactivity and in vivo influence on oxidative stress and matrix metalloproteinases of bioglasses in experimental skin wound. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 68, 126846.	1.5	6
72	Vine shoots waste – new resources for bioethanol production. <i>Romanian Biotechnological Letters</i> , 2020, 25, 1253-1259.	0.5	6

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73	THE INFLUENCE OF ENVIRONMENTAL CONTAMINATION ON HEAVY METALS AND ORGANOCHLORINE COMPOUNDS LEVELS IN MILK. Environmental Engineering and Management Journal, 2011, 10, 37-42.	0.2	6
74	Effect of Transition Metal Doping on the Structural, Morphological, and Magnetic Properties of NiFe <sub>2</sub> O <sub>4</sub> . Materials, 2022, 15, 2996.	1.3	6
75	Progress, Challenges and Opportunities in Divalent Transition Metal-Doped Cobalt Ferrites Nanoparticles Applications. , 0, , .		5
76	Eco-Friendly Nitrogen-Doped Graphene Preparation and Design for the Oxygen Reduction Reaction. Molecules, 2021, 26, 3858.	1.7	5
77	Characterization of Biobriquettes Produced from Vineyard Wastes as a Solid Biofuel Resource. Agriculture (Switzerland), 2022, 12, 341.	1.4	5
78	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
79	Characteristics of Volcanic Tuff from Macicasu (Romania) and Its Capacity to Remove Ammonia from Contaminated Air. Molecules, 2022, 27, 3503.	1.7	5
80	Optimized Removal of Methylene Blue from Aqueous Solution using a Commercial Natural Activated Plant-Based Carbon and Taguchi Experimental Design. Analytical Letters, 2019, 52, 150-162.	1.0	4
81	Adsorption and desorption behavior of natural and synthetic active compounds on hydroxyapatite-based nanocomposites. Ceramics International, 2021, 47, 8584-8592.	2.3	4
82	Removal of Methylene Blue on Thermally Treated Natural Zeolites. Analytical Letters, 2022, 55, 226-236.	1.0	4
83	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
84	Simultaneous Determination of Vitamins D3 (Calcitriol, Cholecalciferol) and K2 (Menaquinone-4 and Tj ETQq0 0 0 rBT /Overlock 10 Tf	1.7	3
85	Exploring the Properties of Micronized Natural Zeolitic Volcanic Tuff as Cosmetic Ingredient. Materials, 2022, 15, 2405.	1.3	3
86	Thermal behavior and effect of SiO <sub>2</sub> and PVA-SiO <sub>2</sub> matrix on formation of Ni-Zn ferrite nanoparticles. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3845-3855.	2.0	2
87	Effect of heat-treatment temperature and zinc addition on magnetostructural and surface properties of manganese nanoferrite prepared by an ecofriendly sol-gel synthesis. Journal of Materials Research and Technology, 2021, 15, 6528-6540.	2.6	2
88	Method validation for the determination of exchangeable cations in natural zeolites using inductively coupled plasma optical emission spectrometry. Studia Universitatis Babeș-Bolyai Chemia, 2021, 66, 81-94.	0.1	1
89	Preparation and characterization of hydroxyapatite based nano-composite biomorphic implants. Studia Universitatis Babeș-Bolyai Chemia, 2018, 63, 137-154.	0.1	1
90	Silicon release from hydroxyapatites in water and simulated body fluid. Studia Universitatis Babeș-Bolyai Chemia, 2017, 62, 67-80.	0.1	1

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91	Kinetic, Equilibrium and Phytotoxicity Studies for Dyes Removal by Low Cost Natural Activated Plant-Based Carbon. <i>Acta Chimica Slovenica</i> , 2019, 66, 850-858.	0.2	1
92	Solid-state structure and solution behaviour of organomercury(II) compounds containing 2-(Me <sub>2</sub> NCH <sub>2</sub> )C <sub>6</sub> H <sub>4</sub> - moieties. <i>Supramolecular aspects. Inorganica Chimica Acta</i> , 2018, 475, 90-97.	1.2	0