

# Elena Matei

## List of Publications by Year in descending order

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90  
papers

915  
citations

516215

16  
h-index

642321

23  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic properties of cotton fabrics functionalized with ZnO by electroless deposition. <i>Materials Chemistry and Physics</i> , 2013, 138, 253-261.	2.0	62
2	Synthesis of flower-like tungsten nanoparticles by magnetron sputtering combined with gas aggregation. <i>European Physical Journal D</i> , 2015, 69, 1.	0.6	45
3	The influence of the nanocrystals size and surface on the Yb/Er doped LaF <sub>3</sub> luminescence properties. <i>Journal of Alloys and Compounds</i> , 2019, 791, 1098-1104.	2.8	34
4	Electrochromic properties of polyaniline-coated fiber webs for tissue engineering applications. <i>International Journal of Pharmaceutics</i> , 2016, 510, 465-473.	2.6	33
5	Direct Immobilization of Biomolecules through Magnetic Forces on Ni Electrodes via Ni Nanoparticles: Applications in Electrochemical Biosensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19867-19877.	4.0	30
6	Multisegment CdTe nanowire homojunction photodiode. <i>Nanotechnology</i> , 2010, 21, 105202.	1.3	26
7	Tungsten nanoparticles with controlled shape and crystallinity obtained by magnetron sputtering and gas aggregation. <i>Materials Letters</i> , 2017, 200, 121-124.	1.3	25
8	Thin films of arylenevinylene oligomers prepared by MAPLE for applications in non-linear optics. <i>Applied Surface Science</i> , 2011, 257, 5298-5302.	3.1	23
9	Structure and properties of silver doped SnSe <sub>2</sub> and Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> thin films prepared by pulsed laser deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 516-520.	0.8	21
10	Transport properties of electrodeposited ZnO nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2504-2507.	1.3	20
11	Effects of substrate and ambient gas on epitaxial growth indium oxide thin films. <i>Applied Surface Science</i> , 2014, 307, 455-460.	3.1	20
12	Electrical properties of electrodeposited CdS nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2485-2488.	1.3	19
13	Polyaniline based microtubes as building-blocks for artificial muscle applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 576-583.	4.0	18
14	Magnetic configurations of Ni-Cu alloy nanowires obtained by the template method. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	17
15	Synthetic fabrics coated with zinc oxide nanoparticles by electroless deposition: Structural characterization and wetting properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1427-1437.	2.4	17
16	Synthesis and properties of poly(methyl methacrylate-2-acrylamido-2-methylpropane sulfonic acid)/PbS hybrid composite. <i>Materials Research Bulletin</i> , 2010, 45, 1008-1012.	2.7	16
17	Field Effect Transistor with Electrodeposited ZnO Nanowire Channel. <i>Electrochimica Acta</i> , 2014, 137, 290-297.	2.6	15
18	Synthesis and characterization of conducting aniline and o-anisidine nanocomposites based on montmorillonite modified clay. <i>Applied Clay Science</i> , 2020, 184, 105395.	2.6	15

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19	Effect of aqueous comonomer solubility on the surfactant-free emulsion copolymerization of methyl methacrylate. <i>Journal of Polymer Research</i> , 2011, 18, 25-30.	1.2	14
20	Optical Properties of Composites Based on Graphene Oxide and Polystyrene. <i>Molecules</i> , 2020, 25, 2419.	1.7	14
21	Poly(Vinyl Chloride) Spheres Coated with Graphene Oxide Sheets: From Synthesis to Optical Properties and Their Applications as Flame-Retardant Agents. <i>Polymers</i> , 2021, 13, 565.	2.0	14
22	ZnO morphological, structural and optical properties control by electrodeposition potential sweep rate. <i>Materials Chemistry and Physics</i> , 2012, 134, 988-993.	2.0	13
23	Electrical properties of templateless electrodeposited ZnO nanowires. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 364-372.	1.9	13
24	Crystallization kinetics mechanism investigation of sol-gel-derived NaYF <sub>4</sub> :(Yb,Er) up-converting phosphors. <i>CrystEngComm</i> , 2017, 19, 4992-5000.	1.3	13
25	Hierarchical functionalization of electrospun fibers by electrodeposition of zinc oxide nanostructures. <i>Applied Surface Science</i> , 2018, 458, 555-563.	3.1	13
26	Electrochemical Sensor for Carbonyl Groups in Oxidized Proteins. <i>Analytical Chemistry</i> , 2019, 91, 1920-1927.	3.2	13
27	Ionophore- Nafion <sup>®</sup> modified gold-coated electrospun polymeric fibers electrodes for determination of electrolytes. <i>Electrochimica Acta</i> , 2020, 363, 137239.	2.6	13
28	Gold coated electrospun polymeric fibres as new electrode platform for glucose oxidase immobilization. <i>Microchemical Journal</i> , 2021, 165, 106108.	2.3	13
29	Electrodeposited ZnO films with high UV emission properties. <i>Materials Research Bulletin</i> , 2011, 46, 2147-2154.	2.7	12
30	Nanostructured palladium doped nickel electrodes for immobilization of oxidases through nickel nanoparticles. <i>Electrochimica Acta</i> , 2019, 315, 102-113.	2.6	12
31	Combining Fluorinated Polymers with Ag Nanoparticles as a Route to Enhance Optical Properties of Composite Materials. <i>Polymers</i> , 2020, 12, 1640.	2.0	12
32	Chemical Composition, Antipathogenic and Cytotoxic Activity of the Essential Oil Extracted from <i>Amorpha fruticosa</i> Fruits. <i>Molecules</i> , 2021, 26, 3146.	1.7	12
33	Rhodamine B Photodegradation in Aqueous Solutions Containing Nitrogen Doped TiO <sub>2</sub> and Carbon Nanotubes Composites. <i>Molecules</i> , 2021, 26, 7237.	1.7	12
34	Cobalt-doped ZnO prepared by electrochemistry: Chemistry, morphology, and magnetism. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2517-2522.	0.8	11
35	Inhibition of troilite (FeS) oxidative dissolution in air-saturated acidic solutions by O-ethyl-S-2-(2-hydroxy-3,5-diiodophenyl)-2-oxoethylxantogenate. <i>Materials Chemistry and Physics</i> , 2015, 157, 101-107.	2.0	11
36	MAPLE prepared heterostructures with oligoazomethine: Fullerene derivative mixed layer for photovoltaic applications. <i>Applied Surface Science</i> , 2017, 417, 183-195.	3.1	11

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37	Secondary Crystalline Phases Influence on Optical Properties in Off-Stoichiometric Cu <sub>2</sub> S/ZnS/SnS <sub>2</sub> Thin Films. <i>Materials</i> , 2020, 13, 4624.	1.3	11
38	Structural, morphological and optical properties of Cu/Fe/S thin films prepared by electrodeposition at fixed applied potential. <i>Thin Solid Films</i> , 2021, 721, 138547.	0.8	11
39	Silicon Metalens Fabrication from Electron Beam to UV-Nanoimprint Lithography. <i>Nanomaterials</i> , 2021, 11, 2329.	1.9	11
40	Gd <sup>3+</sup> co-doping influence on the morphological, up-conversion luminescence and magnetic properties of LiYF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> nanocrystals. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 130, 236-241.	1.9	10
41	Towards a Correlation between Structural, Magnetic, and Luminescence Properties of CeF <sub>3</sub> :Tb <sup>3+</sup> Nanocrystals. <i>Materials</i> , 2020, 13, 2980.	1.3	10
42	On the properties of organic heterostructures prepared with nano-patterned metallic electrode. <i>Applied Surface Science</i> , 2018, 443, 592-602.	3.1	9
43	Microwave tunable straight edge resonator on silicon membrane. , 2000, , .		8
44	Preparation and Properties of Transition Metal Doped ZnO Nanowires. <i>ECS Transactions</i> , 2008, 16, 41-46.	0.3	8
45	Magnetism and magnetoresistance of single Ni/Cu alloy nanowires. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2345-2355.	1.5	8
46	Embedding of IrQ(ppy) <sub>2</sub> organometallic compounds in polypyrrole conducting polymer for OLED™s applications. <i>Synthetic Metals</i> , 2014, 198, 323-328.	2.1	7
47	Biocatalytic designs for the conversion of renewable glycerol into glycerol carbonate as a value-added product. <i>Open Chemistry</i> , 2014, 12, 1262-1270.	1.0	7
48	Influence of metallic and semiconducting nanostructures on the optical properties of dye-doped polymer thin films. <i>Thin Solid Films</i> , 2016, 614, 31-35.	0.8	7
49	Structural and optical properties of ZnO thin films grown by rapid atmospheric mist chemical vapor technique. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	7
50	Hybrid Nanostructures Obtained by Transport and Condensation of Tungsten Oxide Vapours onto CNW Templates. <i>Nanomaterials</i> , 2021, 11, 835.	1.9	7
51	Amorphous thin films in the gallium-chalcogen system. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1033-1037.	0.7	6
52	Characterization of hydrogenated and deuterated silicon carbide films codeposited by magnetron sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 371, 322-326.	0.6	6
53	SnSe <sub>2</sub> -Zn-Porphyrin Nanocomposite Thin Films for Threshold Methane Concentration Detection at Room Temperature. <i>Chemosensors</i> , 2020, 8, 134.	1.8	6
54	Micrometer Sized Hexagonal Chromium Selenide Flakes for Cryogenic Temperature Sensors. <i>Sensors</i> , 2021, 21, 8084.	2.1	6

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55	Influence of polyvinylpyrrolidone as an additive in electrochemical preparation of ZnO nanowires and nanostructured thin films. <i>Surface and Interface Analysis</i> , 2008, 40, 556-560.	0.8	5
56	Luminescence and EPR study of ZnO:Mn:Cu nanowire array. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2494-2498.	1.3	5
57	Electrical properties of single CdTe nanowires. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 444-450.	1.5	5
58	Templateless electrodeposition ZnO nanowires for charge transport optimization in OLED structures. <i>Materials Research Express</i> , 2016, 3, 105018.	0.8	5
59	Preparation and Properties of Cobalt Doped ZnO Nanowires. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2678-2680.	1.2	4
60	Synthesis of CdS nanostructures using template-assisted ammonia-free chemical bath deposition. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1082-1089.	1.9	4
61	Single bath electrodeposition of samarium oxide/zinc oxide nanostructured films with intense, broad luminescence. <i>Electrochimica Acta</i> , 2013, 95, 170-178.	2.6	4
62	Influence of 2,2'-bipyridine on oxidative dissolution of iron monosulfide. <i>Surface and Interface Analysis</i> , 2014, 46, 842-846.	0.8	4
63	Tungsten Nanoparticles Produced by Magnetron Sputtering Gas Aggregation: Process Characterization and Particle Properties. , 2020, , .		4
64	Optical Properties of Composites Based on Poly(o-phenylenediamine), Poly(vinylene fluoride) and Double-Wall Carbon Nanotubes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8260.	1.8	4
65	Crosslinked Collagenic Scaffold Behavior Evaluation by Physico-Chemical, Mechanical and Biological Assessments in an In Vitro Microenvironment. <i>Polymers</i> , 2022, 14, 2430.	2.0	4
66	S parameters for magnetostatic wave transducers on silicon microstructures. <i>Microelectronic Engineering</i> , 2000, 51-52, 479-483.	1.1	3
67	Electrochemical Growth of Eosin Y/Manganese Doped ZnO as Hybrid Films and Nanowires. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 325-339.	1.4	3
68	Effect of heavy ions irradiation on the properties of benzil crystals. <i>Crystal Research and Technology</i> , 2017, 52, 1700047.	0.6	3
69	Inhibitory effect of three phenacyl derivatives on the oxidation of sphalerite (ZnS) in air-equilibrated acidic solution. <i>Corrosion Science</i> , 2018, 138, 154-162.	3.0	3
70	New Chalcogenide Glass-Ceramics Based on Ge-Zn-Se for IR Applications. <i>Materials</i> , 2022, 15, 5002.	1.3	3
71	Polymer-assisted crystallization of low-dimensional lead sulfide particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1826-1832.	1.3	2
72	Luminescent micro- and nanofibers based on novel europium phthalate complex. <i>Materials Chemistry and Physics</i> , 2012, 136, 51-58.	2.0	2

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73	Synthesis and Raman scattering of multiferroic $\text{Fe}_{1-x}\text{P}_x\text{Zr}_{0.2}\text{T}_{0.8}\text{O}_3$ core-shell wire arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 200-205.	0.8	2
74	BaFBr:Eu <sup>2+</sup> nanophosphor-SiO <sub>2</sub> hybrid entrapped in Anodise Alumina membrane pores array. <i>Radiation Measurements</i> , 2014, 68, 38-41.	0.7	2
75	Ceramics and amorphous thin films based on gallium sulphide doped by rare-earth sulphides. <i>Semiconductor Science and Technology</i> , 2015, 30, 044001.	1.0	2
76	Oxidation of chalcopyrite in air-equilibrated acidic solution: Inhibition with phenacyl derivatives. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 1928-1942.	1.7	2
77	Morphological and structural investigation of the poly(vinyl chloride) / graphene oxide composites. <i>Studia Universitatis Babeş-Bolyai Chemia</i> , 2020, 65, 245-258.	0.1	2
78	Monodispersed nanoplatelets of samarium oxides for biosensing applications in biological fluids. <i>Electrochimica Acta</i> , 2022, 402, 139532.	2.6	2
79	The Synergistic Effect of the Laser Beam on the Thermionic Vacuum Arc Method for Titanium-Doped Chromium Thin Film Deposition. <i>Coatings</i> , 2022, 12, 470.	1.2	2
80	Microwave "DARK" Soliton Effect: Compression of Pulses and Signal to Noise Enhancement. , 1998, , .		1
81	Metallic Nanowires and Nanotubes Prepared by Template Replication. <i>Springer Series in Materials Science</i> , 2014, , 137-165.	0.4	1
82	Characterization of hydrogenated and deuterated thin carbon films deposited by magnetron sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 331, 121-124.	0.6	1
83	The Interaction of Tungsten Dust with Human Skin Cells. , 2020, , .		1
84	Zinc Oxide and Polysaccharides: Promising Candidates for Functional Nanomaterials. <i>Springer Series in Materials Science</i> , 2014, , 109-136.	0.4	1
85	Structural and Optical Characterization of Silica Nanospheres Embedded with Monodisperse CeO <sub>2</sub> -Eu <sup>3+</sup> Nanocrystals. <i>Magnetochemistry</i> , 2022, 8, 22.	1.0	1
86	Put variety in White™: Multi-analytical investigation of the white pigments inlaid on Early Chalcolithic pottery from Southern Romania. <i>Journal of Archaeological Science: Reports</i> , 2022, 42, 103402.	0.2	1
87	Semiconductor Hybrid Structure: Nanowires Embedded in a Matrix from the Same Material. <i>ECS Transactions</i> , 2010, 25, 155-161.	0.3	0
88	Optical and morphologic properties of YVO <sub>4</sub> :Eu phosphor. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
89	Cu codoping control over magnetic precipitate formation in ZnCoO nanowires. <i>Applied Physics Letters</i> , 2014, 105, 252403.	1.5	0
90	Capacitive Photodetector Thin-Film Cells of Cu-As <sub>2</sub> S <sub>3</sub> -Cu as Revealed by Dielectric Spectroscopy. <i>Sensors</i> , 2022, 22, 1143.	2.1	0