

# Ionut Enculescu

## List of Publications by Year in descending order

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105  
papers

1,559  
citations

279701

23  
h-index

395590

33  
g-index

106  
all docs

106  
docs citations

106  
times ranked

1985  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monodispersed nanoplatelets of samarium oxides for biosensing applications in biological fluids. <i>Electrochimica Acta</i> , 2022, 402, 139532.	2.6	2
2	Metallized electrospun polymeric fibers for electrochemical sensors and actuators. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 101024.	2.5	5
3	Self-connected CuO@ZnO radial core-shell heterojunction nanowire arrays grown on interdigitated electrodes for visible-light photodetectors. <i>Scientific Reports</i> , 2022, 12, 6834.	1.6	17
4	Charge transport mechanisms in free-standing devices with electrospun electrodes. <i>Nanotechnology</i> , 2022, 33, 395203.	1.3	4
5	Fabrication of ZnO and TiO <sub>2</sub> Nanotubes via Flexible Electro-Spun Nanofibers for Photocatalytic Applications. <i>Nanomaterials</i> , 2021, 11, 1305.	1.9	15
6	Gold coated electrospun polymeric fibres as new electrode platform for glucose oxidase immobilization. <i>Microchemical Journal</i> , 2021, 165, 106108.	2.3	13
7	Biomorphic 3D fibrous networks based on ZnO, CuO and ZnO@CuO composite nanostructures prepared from eggshell membranes. <i>Materials Chemistry and Physics</i> , 2020, 240, 122205.	2.0	21
8	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
9	Synthesis of Core-Double Shell Nylon-ZnO/Polypyrrole Electrospun Nanofibers. <i>Nanomaterials</i> , 2020, 10, 2241.	1.9	7
10	Functionalization of eggshell membranes with CuO@ZnO based p-n junctions for visible light induced antibacterial activity against <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2020, 10, 20960.	1.6	9
11	Photodetecting properties of single CuO@ZnO core-shell nanowires with p-n radial heterojunction. <i>Scientific Reports</i> , 2020, 10, 18690.	1.6	33
12	Unidirectional Magnetic Anisotropy in Dense Vertically-Standing Arrays of Passivated Nickel Nanotubes. <i>Nanomaterials</i> , 2020, 10, 2444.	1.9	3
13	Electrospun conductive gold covered polycaprolactone fibers as electrochemical sensors for O <sub>2</sub> monitoring in cell culture media. <i>Electrochemistry Communications</i> , 2020, 111, 106662.	2.3	10
14	Palladium/palladium oxide coated electrospun fibers for wearable sweat pH-sensors. <i>Scientific Reports</i> , 2019, 9, 8902.	1.6	39
15	Nanostructured palladium doped nickel electrodes for immobilization of oxidases through nickel nanoparticles. <i>Electrochimica Acta</i> , 2019, 315, 102-113.	2.6	12
16	Radial heterojunction based on single ZnO-Cu <sub>2</sub> O core-shell nanowire for photodetector applications. <i>Scientific Reports</i> , 2019, 9, 5553.	1.6	57
17	Core-shell nanowire arrays based on ZnO and Cu <sub>2</sub> O for water stable photocatalysts. <i>Scientific Reports</i> , 2019, 9, 17268.	1.6	27
18	Flexible Delivery Patch Systems based on Thermoresponsive Hydrogels and Submicronic Fiber Heaters. <i>Scientific Reports</i> , 2018, 8, 17555.	1.6	24

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19	Magnetism and magnetoresistance of single Ni-Cu alloy nanowires. Beilstein Journal of Nanotechnology, 2018, 9, 2345-2355.	1.5	8
20	A straightforward route to obtain organic/inorganic hybrid network from bio-waste: Electroless deposition of ZnO nanostructures on eggshell membranes. Chemical Physics Letters, 2018, 706, 24-30.	1.2	8
21	Versatile Actuators Based on Polypyrrole-Coated Metalized Eggshell Membranes. ACS Sustainable Chemistry and Engineering, 2018, 6, 10173-10181.	3.2	15
22	Hierarchical functionalization of electrospun fibers by electrodeposition of zinc oxide nanostructures. Applied Surface Science, 2018, 458, 555-563.	3.1	13
23	White-Light Emission of Dye-Doped Polymer Submicronic Fibers Produced by Electrospinning. Polymers, 2018, 10, 737.	2.0	5
24	Polypyrrole Actuator Based on Electrospun Microribbons. ACS Applied Materials & Interfaces, 2017, 9, 38068-38075.	4.0	40
25	Polyaniline based microtubes as building-blocks for artificial muscle applications. Sensors and Actuators B: Chemical, 2017, 253, 576-583.	4.0	18
26	High performance FETs based on ZnO nanowires synthesized by low cost methods. Nanotechnology, 2016, 27, 475303.	1.3	15
27	Direct and contactless electrical control of temperature of paper and textile foldable substrates using electrospun metallic-web transparent electrodes. Scientific Reports, 2016, 6, 34584.	1.6	18
28	ZnO nanowires grown directly on zinc foils by thermal oxidation in air: Wetting and water adhesion properties. Materials Letters, 2016, 170, 156-159.	1.3	47
29	Electrochromic properties of polyaniline-coated fiber webs for tissue engineering applications. International Journal of Pharmaceutics, 2016, 510, 465-473.	2.6	33
30	Electrical properties of templateless electrodeposited ZnO nanowires. Materials Science in Semiconductor Processing, 2016, 42, 364-372.	1.9	13
31	Electrical properties of single CdTe nanowires. Beilstein Journal of Nanotechnology, 2015, 6, 444-450.	1.5	5
32	Electrical properties of single CuO nanowires for device fabrication: Diodes and field effect transistors. Applied Physics Letters, 2015, 106, .	1.5	28
33	Zinc oxide electroless deposition on electrospun PMMA fiber mats. Materials Letters, 2015, 138, 238-242.	1.3	17
34	Cu codoping control over magnetic precipitate formation in ZnCoO nanowires. Applied Physics Letters, 2014, 105, 252403.	1.5	0
35	Metallic Nanowires and Nanotubes Prepared by Template Replication. Springer Series in Materials Science, 2014, , 137-165.	0.4	1
36	Back Cover: Micropatterned ZnO rod arrays prepared by Au-catalyzed electroless deposition (Phys.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	0

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37	Structural characteristics of iridium dual-emitter organometallic compound. Journal of Materials Research, 2014, 29, 2898-2904.	1.2	2
38	The Influence of the Microstructure and Morphology of CeO <sub>2</sub> Buffer Layer on the Properties of YBCO Films PLD Grown on Ni Tape. Journal of Superconductivity and Novel Magnetism, 2014, 27, 2475-2485.	0.8	7
39	Polysaccharide-assisted crystallization of ZnO micro/nanostructures. Materials Letters, 2014, 115, 256-260.	1.3	21
40	Micropatterned ZnO rod arrays prepared by Au-catalyzed electroless deposition. Physica Status Solidi - Rapid Research Letters, 2014, 8, 648-652.	1.2	4
41	Influence of morphology on the emissive properties of dye-doped PVP nanofibers produced by electrospinning. Journal of Physics and Chemistry of Solids, 2014, 75, 1365-1371.	1.9	16
42	Superhydrophobic ZnO networks with high water adhesion. Nanoscale Research Letters, 2014, 9, 385.	3.1	23
43	Field Effect Transistor with Electrodeposited ZnO Nanowire Channel. Electrochimica Acta, 2014, 137, 290-297.	2.6	15
44	Zinc Oxide and Polysaccharides: Promising Candidates for Functional Nanomaterials. Springer Series in Materials Science, 2014, , 109-136.	0.4	1
45	Magnetic configurations of Ni-Cu alloy nanowires obtained by the template method. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	17
46	Single bath electrodeposition of samarium oxide/zinc oxide nanostructured films with intense, broad luminescence. Electrochimica Acta, 2013, 95, 170-178.	2.6	4
47	Superhydrophobic properties of cotton fabrics functionalized with ZnO by electroless deposition. Materials Chemistry and Physics, 2013, 138, 253-261.	2.0	62
48	Self-assembled homojunction In <sub>2</sub> O <sub>3</sub> transparent thin-film transistors. Semiconductor Science and Technology, 2013, 28, 085002.	1.0	9
49	Polymer Sphere Array Assisted ZnO Electroless Deposition. Soft Materials, 2013, 11, 457-464.	0.8	10
50	Cathodoluminescence and Raman analysis of the finite-size effects in mer-Alq <sub>3</sub> structure. Optical Materials, 2012, 35, 268-273.	1.7	11
51	Luminescent micro- and nanofibers based on novel europium phthalate complex. Materials Chemistry and Physics, 2012, 136, 51-58.	2.0	2
52	Post-synthesis Carbon Nanowalls Transformation under Hydrogen, Oxygen, Nitrogen, Tetrafluoroethane and Sulfur Hexafluoride Plasma Treatments. Plasma Processes and Polymers, 2012, 9, 363-370.	1.6	36
53	ZnO morphological, structural and optical properties control by electrodeposition potential sweep rate. Materials Chemistry and Physics, 2012, 134, 988-993.	2.0	13
54	Synthesis of CdS nanostructures using template-assisted ammonia-free chemical bath deposition. Journal of Physics and Chemistry of Solids, 2012, 73, 1082-1089.	1.9	4

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55	ZnO Thin Films Deposited on Textile Material Substrates for Biomedical Applications. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 207-210.	0.5	11
56	Electrochemical Growth of Eosin Y/Manganese Doped ZnO as Hybrid Films and Nanowires. Zeitschrift Fur Physikalische Chemie, 2011, 225, 325-339.	1.4	3
57	Electrodeposited ZnO films with high UV emission properties. Materials Research Bulletin, 2011, 46, 2147-2154.	2.7	12
58	Highly adherent bioactive glass thin films synthesized by magnetron sputtering at low temperature. Journal of Materials Science: Materials in Medicine, 2011, 22, 2693-2710.	1.7	40
59	Effect of aqueous comonomer solubility on the surfactant-free emulsion copolymerization of methyl methacrylate. Journal of Polymer Research, 2011, 18, 25-30.	1.2	14
60	Tailoring immobilization of immunoglobulin by excimer laser for biosensor applications. Journal of Biomedical Materials Research - Part A, 2011, 96A, 384-394.	2.1	12
61	Polymer-assisted crystallization of low-dimensional lead sulfide particles. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1826-1832.	1.3	2
62	Radical modification of the wetting behavior of textiles coated with ZnO thin films and nanoparticles when changing the ambient pressure in the pulsed laser deposition process. Journal of Applied Physics, 2011, 110, .	1.1	33
63	Growth and Characterization of ZnO:Mn Submicron Wires via Electrodeposition from Nitrate-Lactic Acid Solution. ECS Transactions, 2010, 25, 163-171.	0.3	2
64	Metal oxide nanoparticles synthesized by pulsed laser ablation for proton exchange membrane fuel cells. Journal of Power Sources, 2010, 195, 7776-7780.	4.0	15
65	Synthesis and properties of poly(methyl methacrylate-2-acrylamido-2-methylpropane sulfonic acid)/PbS hybrid composite. Materials Research Bulletin, 2010, 45, 1008-1012.	2.7	16
66	Cobalt-doped ZnO prepared by electrochemistry: Chemistry, morphology, and magnetism. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2517-2522.	0.8	11
67	Investigations of the Correlation between the Preparation Method and the Properties of Anilinic Derivative Functionalised Polymer Thin Films for Non-Linear Optical Applications. Materials Science Forum, 2010, 636-637, 798-804.	0.3	4
68	Multisegment CdTe nanowire homojunction photodiode. Nanotechnology, 2010, 21, 105202.	1.3	26
69	Polymer-microporous host interactions probed by photoluminescence spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 3031.	1.3	2
70	Influence of Ionizing Radiations (Electrons and Gamma) on the Electrical Characteristics of LGS Resonators. Ferroelectrics, 2009, 389, 25-31.	0.3	1
71	Optical and morphologic properties of YVO 4 :Eu phosphor. Proceedings of SPIE, 2009, , .	0.8	0
72	Nanostructured Ferrite Formation in Borosilicate Glass. Advanced Materials Research, 2009, 79-82, 445-448.	0.3	0

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73	EIS studies of electrodeposition process of manganese and copper doped ZnO wires. Surface and Interface Analysis, 2008, 40, 561-565.	0.8	13
74	Influence of polyvinylpyrrolidone as an additive in electrochemical preparation of ZnO nanowires and nanostructured thin films. Surface and Interface Analysis, 2008, 40, 556-560.	0.8	5
75	Optical spectroscopy of Yb <sup>2+</sup> ions in YbF <sub>3</sub> -doped CaF <sub>2</sub> crystals. Journal of Crystal Growth, 2008, 310, 2026-2032.	0.7	26
76	Transport properties of electrodeposited ZnO nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2504-2507.	1.3	20
77	Luminescence and EPR study of ZnO:Mn:Cu nanowire array. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2494-2498.	1.3	5
78	Electrical properties of electrodeposited CdS nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2485-2488.	1.3	19
79	Structural and photocatalytic properties of iron- and europium-doped TiO <sub>2</sub> nanoparticles obtained under hydrothermal conditions. Materials Chemistry and Physics, 2008, 112, 146-153.	2.0	93
80	Preparation and Properties of Cobalt Doped ZnO Nanowires. IEEE Transactions on Magnetics, 2008, 44, 2678-2680.	1.2	4
81	Remote automated system for nanowire electrodeposition. , 2008, , .		0
82	Preparation and Properties of Transition Metal Doped ZnO Nanowires. ECS Transactions, 2008, 16, 41-46.	0.3	8
83	Influence of geometrical properties on light emission of ZnO nanowires. Optical Materials, 2007, 30, 72-75.	1.7	13
84	Fractal characteristics of metal clusters self-assembled in alkali halide matrices. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 727-731.	0.8	0
85	Deposition and properties of CdTe nanowires prepared by template replication. Physica Status Solidi (B): Basic Research, 2007, 244, 1607-1611.	0.7	12
86	ZnO:Mn:Cu nanowires prepared by template method. Physica Status Solidi (B): Basic Research, 2007, 244, 1522-1527.	0.7	34
87	Magneto-sensitive nickel nanowires fabricated by electrodeposition into multi- and single-ion track templates. Journal of Applied Electrochemistry, 2006, 36, 1157-1162.	1.5	32
88	Current perpendicular to plane single-nanowire GMR sensor. Applied Physics A: Materials Science and Processing, 2006, 86, 43-47.	1.1	33
89	Photoluminescence of manganese- and copper-doped CdS nanowires. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 449-454.	0.8	13
90	Fabrication and contacting of single Bi nanowires. Nanotechnology, 2004, 15, S201-S207.	1.3	56

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91	Copper tubes prepared by electroless deposition in ion track templates. Nuclear Instruments & Methods in Physics Research B, 2004, 225, 497-502.	0.6	36
92	Electrochemical Deposition of PbSe <sub>1-x</sub> Te <sub>x</sub> Nanorod Arrays Using Ion Track Etched Membranes as Template. Molecular Crystals and Liquid Crystals, 2004, 418, 21-27.	0.4	8
93	Copper nanowires electrodeposited in etched single-ion track templates. Applied Physics A: Materials Science and Processing, 2003, 77, 751-755.	1.1	48
94	A Model for Structures Growth by Sodium Electrodiffusion in Quartz Crystals. Crystal Research and Technology, 2002, 37, 868.	0.6	3
95	Fractal patterns formed by thermal treatment in alkali halide crystals. Physica B: Condensed Matter, 2002, 324, 387-392.	1.3	4
96	Kinetics of silver structures growth by electrodiffusion in quartz crystals. Solid State Ionics, 2001, 138, 315-321.	1.3	2
97	Chemical Composition of Structures Obtained Inside Quartz Crystals by Sodium Electrodiffusion. Crystal Research and Technology, 2001, 36, 403-410.	0.6	3
98	Growth of metal structures in quartz crystals by electrodiffusion. Journal of Crystal Growth, 1999, 198-199, 507-510.	0.7	2
99	DLA type metal structures in quartz crystals. EPJ Applied Physics, 1999, 6, 147-150.	0.3	0
100	Al <sub>2</sub> O <sub>3</sub> single-crystalline substrates for optoelectronic applications. , 1998, , .		0
101	Ionic space-charge-limited currents in natural quartz crystal. , 1998, , .		0
102	Current voltage characteristics of $\alpha$ -quartz. EPJ Applied Physics, 1998, 2, 203-207.	0.3	1
103	Dynamics of the dauphine twins in quartz crystal up to the transition point. Ferroelectrics, 1997, 190, 119-124.	0.3	2
104	Electrical Conductivity of Quartz Crystals. Crystal Research and Technology, 1997, 32, 879-891.	0.6	6
105	Metal Oxide Nanowires as Building Blocks for Optoelectronic Devices. , 0, , .		2