

Elena M EcheverrÃ-a

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6927959/publications.pdf>

Version: 2024-02-01

52
papers

943
citations

566801

15
h-index

476904

29
g-index

52
all docs

52
docs citations

52
times ranked

1563
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving antifouling property of alumina microfiltration membranes by using atomic layer deposition technique for produced water treatment. <i>Desalination</i> , 2022, 523, 115400.	4.0	20
2	Laser-assisted nanofabrication of multielement complex oxide core-shell nanoparticles. <i>Materials and Design</i> , 2022, 220, 110882.	3.3	2
3	Biodiesel flames as a unique pyrolyzing carbon source for the synthesis of hydrophobic carbon films. <i>Carbon Letters</i> , 2021, 31, 389-406.	3.3	2
4	Boron-induced metamorphosis of graphitic structures - a new form of mesoscopic carbon. <i>Carbon Trends</i> , 2021, 2, 100012.	1.4	0
5	Addressing crosstalk in crossbar memory arrays with a resistive switching ZnO homojunction diode. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	1
6	Lead-Free Halide Light-Emitting Diodes with External Quantum Efficiency Exceeding 7% Using Host-Dopant Strategy. <i>ACS Energy Letters</i> , 2021, 6, 2584-2593.	8.8	48
7	Highly Stable, Low-Cost Metal-Free Oxygen Reduction Reaction Electrocatalyst Based on Nitrogen-Doped Pseudo-Graphite. <i>Energy & Fuels</i> , 2021, 35, 10146-10155.	2.5	4
8	Synthesis of hexagonal boron nitride films on silicon and sapphire substrates by low-pressure chemical vapor deposition. <i>Thin Solid Films</i> , 2021, 733, 138812.	0.8	17
9	Optimization of the U parameter in CoO groupings in ZnO (101 $\bar{1}$ 0) and (112 $\bar{1}$ 0) surfaces: A DFT+U and UPS study. <i>Computational Materials Science</i> , 2021, 198, 110700.	1.4	2
10	Synthesis of Magnetite Nanorods from the Reduction of Iron Oxy-Hydroxide with Hydrazine. <i>ACS Omega</i> , 2020, 5, 22440-22448.	1.6	24
11	High-Temperature Atomic Layer Deposition of GaN on 1D Nanostructures. <i>Nanomaterials</i> , 2020, 10, 2434.	1.9	11
12	Electrochemical Aspects of a Nitrogen-Doped Pseudo-Graphitic Carbon Material: Resistance to Electrode Fouling by Air-Aging and Dopamine Electro-Oxidation. <i>Journal of Carbon Research</i> , 2020, 6, 68.	1.4	4
13	Increased electron transfer kinetics and thermally treated graphite stability through improved tunneling paths. <i>Journal of Materials Science</i> , 2020, 55, 11411-11430.	1.7	3
14	Iron Pyrite Nanocrystals: A Potential Catalyst for Selective Transfer Hydrogenation of Functionalized Nitroarenes. <i>ACS Omega</i> , 2020, 5, 14104-14110.	1.6	8
15	Roughened graphite biointerfaced with P450 liver microsomes: Surface and electrochemical characterizations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110790.	2.5	10
16	Enhancement in the performance of nanostructured Cu-ZnO solar cells by band alignment. <i>RSC Advances</i> , 2020, 10, 7839-7854.	1.7	70
17	Electrochemical determination of chemical oxygen demand on functionalized pseudo-graphite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2019, 851, 113448.	1.9	7
18	The Effect of UV Illumination on the Room Temperature Detection of Vaporized Ammonium Nitrate by a ZnO Coated Nanospring-Based Sensor. <i>Materials</i> , 2019, 12, 302.	1.3	9

#	ARTICLE	IF	CITATIONS
19	Electrochemical stability and capacitance of in-situ synthesized Prussian blue on thermally-activated graphite. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	7
20	Evolution of the Stoichiometry and Electronic Structure of Cobalt Oxide in Thermally Treated Co-Doped ZnO Nanorods for Solar Cells. <i>ACS Applied Nano Materials</i> , 2019, 2, 4113-4120.	2.4	13
21	Alumina Coated Silica Nanosprings (NS) Support Based Cobalt Catalysts for Liquid Hydrocarbon Fuel Production From Syngas. <i>Materials</i> , 2019, 12, 1810.	1.3	8
22	Buckypaper as Bilirubin Oxidase Biointerface for Electrocatalytic Applications: Buckypaper Thickness. <i>ACS Applied Bio Materials</i> , 2019, 2, 2229-2236.	2.3	13
23	Electrical characterization of ZnO-coated nanospring ensemble by impedance spectroscopy: probing the effect of thermal annealing. <i>Nanotechnology</i> , 2019, 30, 234006.	1.3	10
24	Thermo-Optical Properties of Cobalt-Doped Zinc Oxide (ZnO) Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3893-3904.	0.9	12
25	ZnO Microfiltration Membranes for Desalination by a Vacuum Flow-Through Evaporation Method. <i>Membranes</i> , 2019, 9, 156.	1.4	2
26	The sp ² -sp ³ carbon hybridization content of nanocrystalline graphite from pyrolyzed vegetable oil, comparison of electrochemistry and physical properties with other carbon forms and allotropes. <i>Carbon</i> , 2019, 144, 831-840.	5.4	30
27	Thermal Modification of Graphite for Fast Electron Transport and Increased Capacitance. <i>ACS Applied Nano Materials</i> , 2019, 2, 228-240.	2.4	10
28	Chemical and electronic structure of composite films deposited by plasma-enhanced chemical vapor deposition from orthocarborane and pyridine source compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 223, 21-28.	0.8	3
29	Enhancement of the catalytic performance of silica nanosprings (NS)-supported iron catalyst with copper, molybdenum, cobalt and ruthenium promoters for Fischer-Tropsch synthesis. <i>Fuel Processing Technology</i> , 2018, 177, 89-100.	3.7	19
30	Gold Dispersion and Activation on the Basal Plane of Single-Layer MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 267-273.	1.5	16
31	Characterization and catalytic behavior of EDTA modified silica nanosprings (NS)-supported cobalt catalyst for Fischer-Tropsch CO-hydrogenation. <i>Journal of Fuel Chemistry and Technology</i> , 2018, 46, 957-966.	0.9	10
32	Emergent Electrical Properties of Ensembles of 1D Nanostructures and Their Impact on Room Temperature Electrical Sensing of Ammonium Nitrate Vapor. <i>ACS Sensors</i> , 2018, 3, 2367-2374.	4.0	14
33	Critical-point model dielectric function analysis of WO ₃ thin films deposited by atomic layer deposition techniques. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	5
34	Pyrenyl-carbon nanostructures for scalable enzyme electrocatalysis and biological fuel cells. <i>Analyst</i> , 2018, 143, 2876-2882.	1.7	6
35	Band Bending at the Gold (Au)/Boron Carbide-Based Semiconductor Interface. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 893-905.	1.4	5
36	Electrical and structural characterization of neutron irradiated amorphous boron carbide/silicon p-n heterojunctions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 432, 48-54.	0.6	5

#	ARTICLE	IF	CITATIONS
37	Boron substituted MFI-type zeolite-coated mesh for oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 550, 108-114.	2.3	20
38	Increased drift carrier lifetime in semiconducting boron carbides deposited by plasma enhanced chemical vapor deposition from carboranes and benzene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	0.9	10
39	Interface characterization of atomic layer deposited Al ₂ O ₃ on μ plane GaN. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600681.	0.7	16
40	Electronic structure of cyclodextrin-carbon nanotube composite films. <i>RSC Advances</i> , 2017, 7, 10968-10972.	1.7	14
41	Strong binding at the gold (Au) boron carbide interface. <i>Surface and Coatings Technology</i> , 2017, 314, 51-54.	2.2	8
42	Semiconducting boron carbides with better charge extraction through the addition of pyridine moieties. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 355302.	1.3	19
43	Band structure characterization of WS ₂ grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	40
44	A New Approach to Non-Coordinating Anions: Lewis Acid Enhancement of Porphyrin Metal Centers in a Zwitterionic Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 10293-10298.	6.6	85
45	The metal/organic interface in cobalt/vinylidene fluoride heterostructures. <i>Materials Research Express</i> , 2016, 3, 116403.	0.8	3
46	Neutron Detection Signatures at Zero Bias in Novel Semiconducting Boron Carbide/Pyridine Polymers. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1743, 51.	0.1	4
47	Novel semiconducting boron carbide/pyridine polymers for neutron detection at zero bias. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 113-118.	1.1	16
48	Porphyrin-Metalation-Mediated Tuning of Photoredox Catalytic Properties in Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2015, 5, 5283-5291.	5.5	212
49	Use of thiolated oligonucleotides as anti-fouling diluents in electrochemical peptide-based sensors. <i>Chemical Communications</i> , 2014, 50, 4690.	2.2	43
50	The chromium site in doped glassy lithium tetraborate. <i>Materials Chemistry and Physics</i> , 2014, 147, 492-495.	2.0	2
51	Significant magneto-resistive effects in boron carbide thin films. <i>Materials Letters</i> , 2013, 110, 20-23.	1.3	9
52	Novel Cross-Linked Ortho-Carborane and Ortho-Carborane:Y (Y=1,4-Diaminobenzene, Pyridine, Benzene) Polymer Films: A New Class of Carborane-Based Materials with Tunable Electronic Structure. <i>ECS Transactions</i> , 2013, 53, 303-310.	0.3	12