

David Zitoun

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Site-Engineered Tetragonal ZrO ₂ Nanoparticles: A Promising Oxygen Reduction Catalyst with High Activity and Chemical Stability in Alkaline Medium. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	3
2	Precious-Group-Metal-Free Energy-Efficient Urea Electrolysis: Membrane Electrode Assembly Cell Using Ni ₃ N Nanoparticles as Catalyst. <i>ACS Applied Energy Materials</i> , 2022, 5, 1397-1402.	5.1	15
3	Ionic selective carbon nanotubes for hydrogen electrocatalysis in the hydrogen-bromine redox flow battery. <i>Materials Today Energy</i> , 2022, 24, 100937.	4.7	2
4	Cu ²⁺ -Induced self-assembly and amyloid formation of a cyclic α -peptide: structure and function. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6699-6715.	2.8	3
5	An Engineered Nanocomplex with Photodynamic and Photothermal Synergistic Properties for Cancer Treatment. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2286.	4.1	10
6	Bifunctional Pt-Ni Electrocatalyst Synthesis with Ultralow Platinum Seeds for Oxygen Evolution and Reduction in Alkaline Medium. <i>ACS Applied Energy Materials</i> , 2022, 5, 4212-4220.	5.1	7
7	Combinatorial Synthesis and Screening of a Ternary NiFeCoO _x Library for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2022, 5, 4017-4024.	5.1	5
8	Influence of loading, metallic surface state and surface protection in precious group metal hydrogen electrocatalyst for H ₂ /Br ₂ redox-flow batteries. <i>Journal of Power Sources</i> , 2022, 536, 231494.	7.8	6
9	Hydrogen-Bromine Redox-Flow Battery Cycling with Bromine Complexing Agent: on the Benefits of Nanoporous Separator Versus Proton Exchange Membrane. <i>Energy Technology</i> , 2021, 9, 2000978.	3.8	10
10	Carbon supported Pt-Ni octahedral electrocatalysts as a model to monitor nickel corrosion and particle detachment. <i>Catalysis Science and Technology</i> , 2021, 11, 4793-4802.	4.1	1
11	Investigations of Shape, Material and Excitation Wavelength Effects on Field Enhancement in SERS Advanced Tips. <i>Nanomaterials</i> , 2021, 11, 237.	4.1	7
12	In Situ Measurement of Localized Current Distribution in H ₂ -Br ₂ Redox Flow Batteries. <i>Energies</i> , 2021, 14, 4945.	3.1	1
13	Operando X-ray absorption spectroscopy of a Pd-NiOOH 2 nm cubes hydrogen oxidation catalyst in an alkaline membrane fuel cell. <i>Catalysis Science and Technology</i> , 2021, 11, 1337-1344.	4.1	4
14	Silver Oxygen Reduction Electrocatalyst in Alkaline Medium: Aging and Protective Coating. <i>Energy Technology</i> , 2021, 9, 2100546.	3.8	1
15	Evaluation of Mg[B(HFIP) ₄] ₂ -Based Electrolyte Solutions for Rechargeable Mg Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54894-54905.	8.0	15
16	Selective Catalyst Surface Access through Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58827-58837.	8.0	2
17	Size dependent oxygen reduction and methanol oxidation reactions: catalytic activities of PtCu octahedral nanocrystals. <i>Catalysis Science and Technology</i> , 2020, 10, 5501-5512.	4.1	18
18	First principles study of electrocatalytic behavior of olivine phosphates with mixed alkali and mixed transition metal atoms. <i>RSC Advances</i> , 2020, 10, 29175-29180.	3.6	0

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19	Design of Surface Enhanced Raman Scattering (SERS) Nanosensor Array. <i>Sensors</i> , 2020, 20, 5123.	3.8	4
20	Carbon-Supported PtNi Nanocrystals for Alkaline Oxygen Reduction and Evolution Reactions: Electrochemical Activity and Durability upon Accelerated Stress Tests. <i>ACS Applied Energy Materials</i> , 2020, 3, 8858-8870.	5.1	16
21	Tailoring the electrochemical hydrogen evolution activity of Cu ₃ P through oxophilic surface modification. <i>Electrochemistry Communications</i> , 2020, 113, 106691.	4.7	22
22	Octahedral to Cuboctahedral Shape Transition in 6 nm Pt ₃ Ni Nanocrystals for Oxygen Reduction Reaction Electrocatalysis. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000002.	2.3	9
23	Hydrogen sensors with high humidity tolerance based on indium-tin oxide colloids. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127845.	7.8	9
24	A low-loading Ru-rich anode catalyst for high-power anion exchange membrane fuel cells. <i>Chemical Communications</i> , 2020, 56, 5669-5672.	4.1	12
25	Laser-Induced Colloidal Writing of Organometallic Precursor-Based Repeatable and Fast Pd-Ni Hydrogen Sensor. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900768.	3.7	12
26	Dual Alkaline Ion Route to Chemical De-insertion in Oxygen Evolution Olivine Electrocatalysts. <i>ACS Catalysis</i> , 2019, 9, 8355-8363.	11.2	6
27	Nanoparticle Positioning on Liquid and Polymerized Faceted Droplets. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28192-28200.	3.1	6
28	Lithiation Kinetics in Silicon/Mn ₃ O ₄ Core-Shell Nanoparticles Anodes for Li-Ion Battery. <i>Chemistry of Materials</i> , 2019, 31, 8320-8327.	6.7	8
29	Enhancement of Palladium HOR Activity in Alkaline Conditions through Ceria Surface Doping. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3234-F3239.	2.9	15
30	Crossover-tolerant coated platinum catalysts in hydrogen/bromine redox flow battery. <i>Journal of Power Sources</i> , 2019, 422, 84-91.	7.8	42
31	Electrochemical intercalation of sodium in vertically aligned molybdenum disulfide for hydrogen evolution reaction. <i>FlatChem</i> , 2019, 14, 100086.	5.6	5
32	Corrosion Resistance and Acidic ORR Activity of Pt-based Catalysts Supported on Nanocrystalline Alloys of Molybdenum and Tantalum Carbide. <i>Journal of the Electrochemical Society</i> , 2019, 166, F1292-F1300.	2.9	13
33	Morphological, Structural, and Compositional Evolution of Pt-Ni Octahedral Electrocatalysts with Pt-Rich Edges and Ni-Rich Core: Toward the Rational Design of Electrocatalysts for the Oxygen Reduction Reaction. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800442.	2.3	10
34	The Electrochemical Sodiation of FeSb ₂ : New Insights from Operando ⁵⁷ Fe Synchrotron Mössbauer and X-Ray Absorption Spectroscopy. <i>Batteries and Supercaps</i> , 2019, 2, 4-4.	4.7	0
35	Scalable Silver Oxo-Sulfide Catalyst for Electrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 788-796.	5.1	7
36	Self-faceting of emulsion droplets as a route to solid icosahedra and other polyhedra. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 541-545.	9.4	24

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37	The Electrochemical Sodiation of FeSb ₂ : New Insights from Operando ⁵⁷ Fe Synchrotron Mössbauer and X-Ray Absorption Spectroscopy. Batteries and Supercaps, 2019, 2, 66-73.	4.7	18
38	Metal- based nanoparticles as carriers of mTHPC drug for effective photodynamic therapy. , 2019, , .		1
39	Bifunctional Electrocatalysis on Pd-Ni Core-Shell Nanoparticles for Hydrogen Oxidation Reaction in Alkaline Medium. Advanced Materials Interfaces, 2018, 5, 1701666.	3.7	41
40	Electron beam patterning for writing of positively charged gold colloidal nanoparticles. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	2
41	Operando Micro-Raman Study Revealing Enhanced Connectivity of Plasmonic Metals Decorated Silicon Anodes for Lithium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 1096-1105.	5.1	14
42	<i>meso</i> -Tetrahydroxyphenylchlorin-Conjugated Gold Nanoparticles as a Tool To Improve Photodynamic Therapy. ACS Applied Materials & Interfaces, 2018, 10, 2319-2327.	8.0	50
43	Fast kinetics in free-standing porous Cu ₃ P anode for Li-ion batteries. Electrochimica Acta, 2018, 292, 846-854.	5.2	18
44	From the Sea to Hydrobromic Acid: Polydopamine Layer as Corrosion Protective Layer on Platinum Electrocatalyst. ACS Applied Energy Materials, 2018, 1, 4678-4685.	5.1	20
45	Direct Chemical Synthesis of Lithium Sub-Stoichiometric Olivine Li _{0.7} Co _{0.75} Fe _{0.25} PO ₄ Coated with Reduced Graphene Oxide as Oxygen Evolution Reaction Electrocatalyst. ACS Catalysis, 2018, 8, 8715-8725.	11.2	19
46	Leveraging Commercial Silver Inks as Oxidation Reduction Reaction Catalysts in Alkaline Medium. ACS Applied Nano Materials, 2018, 1, 3075-3079.	5.0	3
47	Synthesis of Carbon Nanotubes Networks Grown on Silicon Nanoparticles as Li-Ion Anodes. Journal of Physical Chemistry C, 2017, 121, 25632-25640.	3.1	10
48	Platinum-Group Metal Grown on Vertically Aligned MoS ₂ as Electrocatalysts for Hydrogen Evolution Reaction. Electrochimica Acta, 2017, 257, 49-55.	5.2	19
49	Operando plasmon-enhanced Raman spectroscopy in silicon anodes for Li-ion battery. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	11
50	FeSi ₄ P ₄ : A novel negative electrode with atypical electrochemical mechanism for Li and Na-ion batteries. Journal of Power Sources, 2017, 372, 196-203.	7.8	10
51	On the impact of Vertical Alignment of MoS ₂ for Efficient Lithium Storage. Scientific Reports, 2017, 7, 3280.	3.3	43
52	Large-scale synthesis of polyhedral Ag nanoparticles for printed electronics. RSC Advances, 2017, 7, 54326-54331.	3.6	12
53	Photo-Crosslinkable Colloids: From Fluid Structure and Dynamics of Spheres to Suspensions of Ellipsoids. Gels, 2016, 2, 29.	4.5	8
54	Studies of a layered-spinel Li[Ni _{1/3} Mn _{2/3}]O ₂ cathode material for Li-ion batteries synthesized by a hydrothermal precipitation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 213, 131-139.	3.5	11

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55	Palladium/nickel bifunctional electrocatalyst for hydrogen oxidation reaction in alkaline membrane fuel cell. <i>Journal of Power Sources</i> , 2016, 304, 332-339.	7.8	137
56	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	21.0	372
57	Layering in sedimenting nanoparticle suspensions: The order-inducing role of randomness. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 483, 248-256.	4.7	4
58	Hollow octahedral and cuboctahedral nanocrystals of ternary Pt-Ni-Au alloys. <i>Nanoscale</i> , 2015, 7, 13521-13529.	5.6	22
59	Silicon/Hollow Fe_2O_3 Nanoparticles as Efficient Anodes for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 2703-2710.	6.7	40
60	Pd/Ni Synergistic Activity for Hydrogen Oxidation Reaction in Alkaline Conditions. <i>Electrochimica Acta</i> , 2015, 176, 1074-1082.	5.2	56
61	Magnetism in olivine-type $\text{LiCo}_x\text{Fe}_x\text{PO}_4$ cathode materials: bridging theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31202-31215.	2.8	16
62	Polymeric Honeycombs Decorated by Nickel Nanoparticles. <i>Science of Advanced Materials</i> , 2015, 7, 489-495.	0.7	1
63	Applications, composites, and devices: general discussion. <i>Faraday Discussions</i> , 2014, 173, 429-443.	3.2	5
64	Synthesis in gas and liquid phase: general discussion. <i>Faraday Discussions</i> , 2014, 173, 115-135.	3.2	2
65	Reaction mechanism of amine-borane route towards Sn, Ni, Pd, Pt nanoparticles. <i>RSC Advances</i> , 2014, 4, 63603-63610.	3.6	9
66	Functionalisation, separation and solvation: general discussion. <i>Faraday Discussions</i> , 2014, 173, 337-349.	3.2	0
67	Operando electron magnetic measurements of Li-ion batteries. <i>Energy and Environmental Science</i> , 2014, 7, 2012-2016.	30.8	42
68	Denser fluids of charge-stabilized colloids form denser sediments. <i>Soft Matter</i> , 2014, 10, 4913-4921.	2.7	5
69	Organometallic deposition of ultrasmooth nanoscale Ni film. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	0
70	Oxidation pathways towards Si amorphous layers or nanocrystalline powders as Li-ion batteries anodes. <i>Materials for Renewable and Sustainable Energy</i> , 2014, 3, 1.	3.6	29
71	Do we need covalent bonding of Si nanoparticles on graphene oxide for Li-ion batteries?. <i>Faraday Discussions</i> , 2014, 173, 391-402.	3.2	20
72	Tip Enhanced Silver Growth on Shaped Controlled Nickel Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10455-10462.	3.1	7

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73	Nickel Nanoparticles Stabilized by Luminescent Labile Ligands. <i>Topics in Catalysis</i> , 2013, 56, 1184-1191.	2.8	2
74	Zigzag-shaped nickel nanowires via organometallic template-free route. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	6
75	Ag Dewetting in Cu@Ag Monodisperse Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3093-3100.	3.1	114
76	Nickel nanocrystals: fast synthesis of cubes, pyramids and tetrapods. <i>RSC Advances</i> , 2013, 3, 1380-1387.	3.6	49
77	Low temperature, template-free route to nickel thin films and nanowires. <i>Nanoscale</i> , 2012, 4, 762-767.	5.6	9
78	Silver nanowires and nanoparticles from a microfluidic reactor: application to metal assisted silicon etching. <i>New Journal of Chemistry</i> , 2012, 36, 2456.	2.8	24
79	New topotactic synthetic route to mesoporous silicon carbide. <i>Journal of Materials Chemistry</i> , 2011, 21, 15798.	6.7	18
80	Electron Paramagnetic Resonance Spectroscopic Investigation of Manganese Doping in ZnL (L = O, S). <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	0.4	12
81	CoFe ₂ O ₄ ~TiO ₂ and CoFe ₂ O ₄ ~ZnO Thin Film Nanostructures Elaborated from Colloidal Chemistry and Atomic Layer Deposition. <i>Langmuir</i> , 2010, 26, 18400-18407.	3.5	19
82	Structural Versatility of the μ -SmGa _x Phase: X-Ray, Electron Diffraction, and DFT Studies. <i>Inorganic Chemistry</i> , 2009, 48, 2399-2406.	4.0	5
83	Microwave Synthesis of a Long-Lasting Phosphor. <i>Journal of Chemical Education</i> , 2009, 86, 72.	2.3	25
84	Transition Metal-Doped ZrO ₂ and HfO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12048-12058.	3.1	55
85	Manganese-Doped Zirconia Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 863-868.	2.0	49
86	New Synthesis Method of a Si Nanocomposite Anode for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2008, 20, 1212-1214.	6.7	20
87	Three Novel Phases in the Sm~Co~Ga System. Syntheses, Crystal and Electronic Structures, and Electrical and Magnetic Properties. <i>Inorganic Chemistry</i> , 2007, 46, 4177-4186.	4.0	16
88	Solution-Grown Zinc Oxide Nanowires. <i>Inorganic Chemistry</i> , 2006, 45, 7535-7543.	4.0	647
89	Single Crystal Manganese Oxide Multipods by Oriented Attachment. <i>Journal of the American Chemical Society</i> , 2005, 127, 15034-15035.	13.7	227
90	Magnetic nanoparticles through organometallic synthesis: evolution of the magnetic properties from isolated nanoparticles to organised nanostructures. <i>Faraday Discussions</i> , 2004, 125, 265.	3.2	38

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91	Covalent Linking of Γ^2 -Slabs of EDT-TTF Moieties: Bis(ethylenedithiotetrathiafulvalenyl)ethane and Its 1:1 Radical Cation Salt with Au(CN) ₂ ⁻ . <i>Advanced Materials</i> , 1999, 11, 766-769.	21.0	12