

David Zitoun

List of Publications by Year in descending order

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papers

2,783
citations

304743

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182427

51
g-index

94
all docs

94
docs citations

94
times ranked

5304
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution-Grown Zinc Oxide Nanowires. <i>Inorganic Chemistry</i> , 2006, 45, 7535-7543.	4.0	647
2	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	21.0	372
3	Single Crystal Manganese Oxide Multipods by Oriented Attachment. <i>Journal of the American Chemical Society</i> , 2005, 127, 15034-15035.	13.7	227
4	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
5	Ag Dewetting in Cu@Ag Monodisperse Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3093-3100.	3.1	114
6	Pd/Ni Synergistic Activity for Hydrogen Oxidation Reaction in Alkaline Conditions. <i>Electrochimica Acta</i> , 2015, 176, 1074-1082.	5.2	56
7	Transition Metal-Doped ZrO ₂ and HfO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12048-12058.	3.1	55
8	<i>meso</i> -Tetrahydroxyphenylchlorin-Conjugated Gold Nanoparticles as a Tool To Improve Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2319-2327.	8.0	50
9	Manganese-Doped Zirconia Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 863-868.	2.0	49
10	Nickel nanocrystals: fast synthesis of cubes, pyramids and tetrapods. <i>RSC Advances</i> , 2013, 3, 1380-1387.	3.6	49
11	On the impact of Vertical Alignment of MoS ₂ for Efficient Lithium Storage. <i>Scientific Reports</i> , 2017, 7, 3280.	3.3	43
12	Operando electron magnetic measurements of Li-ion batteries. <i>Energy and Environmental Science</i> , 2014, 7, 2012-2016.	30.8	42
13	Crossover-tolerant coated platinum catalysts in hydrogen/bromine redox flow battery. <i>Journal of Power Sources</i> , 2019, 422, 84-91.	7.8	42
14	Bifunctional Electrocatalysis on Pd-Ni Core-Shell Nanoparticles for Hydrogen Oxidation Reaction in Alkaline Medium. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701666.	3.7	41
15	Silicon/Hollow Fe ₂ O ₃ Nanoparticles as Efficient Anodes for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 2703-2710.	6.7	40
16	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
17	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
18	Microwave Synthesis of a Long-Lasting Phosphor. <i>Journal of Chemical Education</i> , 2009, 86, 72.	2.3	25

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19	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
20	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
21	Hollow octahedral and cuboctahedral nanocrystals of ternary Pt–Ni–Au alloys. <i>Nanoscale</i> , 2015, 7, 13521-13529.	5.6	22
22	Tailoring the electrochemical hydrogen evolution activity of Cu ₃ P through oxophilic surface modification. <i>Electrochemistry Communications</i> , 2020, 113, 106691.	4.7	22
23	New Synthesis Method of a Si Nanocomposite Anode for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2008, 20, 1212-1214.	6.7	20
24	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
25	From the Sea to Hydrobromic Acid: Polydopamine Layer as Corrosion Protective Layer on Platinum Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2018, 1, 4678-4685.	5.1	20
26	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
27	Platinum-Group Metal Grown on Vertically Aligned MoS ₂ as Electrocatalysts for Hydrogen Evolution Reaction. <i>Electrochimica Acta</i> , 2017, 257, 49-55.	5.2	19
28	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. <i>ACS Catalysis</i> , 2018, 8, 8715-8725.	11.2	19
29	New topotactic synthetic route to mesoporous silicon carbide. <i>Journal of Materials Chemistry</i> , 2011, 21, 15798.	6.7	18
30	Fast kinetics in free-standing porous Cu ₃ P anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2018, 292, 846-854.	5.2	18
31	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, 66-73.	4.7	18
32	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
33	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
34	Magnetism in olivine-type LiCo _{1-x} Fe _x PO ₄ cathode materials: bridging theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31202-31215.	2.8	16
35	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
36	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

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37	Evaluation of Mg[B(HFIP) ₄] ₂ -Based Electrolyte Solutions for Rechargeable Mg Batteries. ACS Applied Materials & Interfaces, 2021, 13, 54894-54905.	8.0	15
38	Precious-Group-Metal-Free Energy-Efficient Urea Electrolysis: Membrane Electrode Assembly Cell Using Ni ₃ N Nanoparticles as Catalyst. ACS Applied Energy Materials, 2022, 5, 1397-1402.	5.1	15
39	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
40	Corrosion Resistance and Acidic ORR Activity of Pt-based Catalysts Supported on Nanocrystalline Alloys of Molybdenum and Tantalum Carbide. Journal of the Electrochemical Society, 2019, 166, F1292-F1300.	2.9	13
41	Covalent Linking of \hat{I}^2 -Slabs of EDT-TTF Moieties: Bis(ethylenedithiotetrathiafulvalenyl)ethane and Its 1:1 Radical Cation Salt with Au(CN) ₂ ⁻ . Advanced Materials, 1999, 11, 766-769.	21.0	12
42	Electron Paramagnetic Resonance Spectroscopic Investigation of Manganese Doping in ZnL (L = O, S). Tj ETQq0 0 0 rgBT /Overlock 10 T	0.4	12
43	Laser-Induced Colloidal Writing of Organometallic Precursor-Based Repeatable and Fast Pd-Ni Hydrogen Sensor. Advanced Materials Interfaces, 2019, 6, 1900768.	3.7	12
44	A low-loading Ru-rich anode catalyst for high-power anion exchange membrane fuel cells. Chemical Communications, 2020, 56, 5669-5672.	4.1	12
45	Large-scale synthesis of polyhedral Ag nanoparticles for printed electronics. RSC Advances, 2017, 7, 54326-54331.	3.6	12
46	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
47	Operando plasmon-enhanced Raman spectroscopy in silicon anodes for Li-ion battery. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	11
48	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
49	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
50	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. Particle and Particle Systems Characterization, 2019, 36, 1800442.	2.3	10
51	Hydrogen-Bromine Redox-Flow Battery Cycling with Bromine Complexing Agent: on the Benefits of Nanoporous Separator Versus Proton Exchange Membrane. Energy Technology, 2021, 9, 2000978.	3.8	10
52	An Engineered Nanocomplex with Photodynamic and Photothermal Synergistic Properties for Cancer Treatment. International Journal of Molecular Sciences, 2022, 23, 2286.	4.1	10
53	Low temperature, template-free route to nickel thin films and nanowires. Nanoscale, 2012, 4, 762-767.	5.6	9
54	Reaction mechanism of \hat{c} amine-borane route-towards Sn, Ni, Pd, Pt nanoparticles. RSC Advances, 2014, 4, 63603-63610.	3.6	9

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55	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
56	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
57	Photo-Crosslinkable Colloids: From Fluid Structure and Dynamics of Spheres to Suspensions of Ellipsoids. <i>Gels</i> , 2016, 2, 29.	4.5	8
58	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
59	Tip Enhanced Silver Growth on Shaped Controlled Nickel Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10455-10462.	3.1	7
60	Scalable Silver Oxo-Sulfide Catalyst for Electrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 788-796.	5.1	7
61	Investigations of Shape, Material and Excitation Wavelength Effects on Field Enhancement in SERS Advanced Tips. <i>Nanomaterials</i> , 2021, 11, 237.	4.1	7
62	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
63	Zigzag-shaped nickel nanowires via organometallic template-free route. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	6
64	Dual Alkaline Ion Route to Chemical De-insertion in Oxygen Evolution Olivine Electrocatalysts. <i>ACS Catalysis</i> , 2019, 9, 8355-8363.	11.2	6
65	Nanoparticle Positioning on Liquid and Polymerized Faceted Droplets. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28192-28200.	3.1	6
66	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
67	Structural Versatility of the μ -SmGax Phase: X-Ray, Electron Diffraction, and DFT Studies. <i>Inorganic Chemistry</i> , 2009, 48, 2399-2406.	4.0	5
68	Applications, composites, and devices: general discussion. <i>Faraday Discussions</i> , 2014, 173, 429-443.	3.2	5
69	Denser fluids of charge-stabilized colloids form denser sediments. <i>Soft Matter</i> , 2014, 10, 4913-4921.	2.7	5
70	Electrochemical intercalation of sodium in vertically aligned molybdenum disulfide for hydrogen evolution reaction. <i>FlatChem</i> , 2019, 14, 100086.	5.6	5
71	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
72	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

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73	Design of Surface Enhanced Raman Scattering (SERS) Nanosensor Array. <i>Sensors</i> , 2020, 20, 5123.	3.8	4
74	<i>Operando</i> X-ray absorption spectroscopy of a Pd/Î³-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
75	Leveraging Commercial Silver Inks as Oxidation Reduction Reaction Catalysts in Alkaline Medium. <i>ACS Applied Nano Materials</i> , 2018, 1, 3075-3079.	5.0	3
76	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
77	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
78	Nickel Nanoparticles Stabilized by Luminescent Labile Ligands. <i>Topics in Catalysis</i> , 2013, 56, 1184-1191.	2.8	2
79	Synthesis in gas and liquid phase: general discussion. <i>Faraday Discussions</i> , 2014, 173, 115-135.	3.2	2
80	Electron beam patterning for writing of positively charged gold colloidal nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	2
81	Selective Catalyst Surface Access through Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58827-58837.	8.0	2
82	Ionically selective carbon nanotubes for hydrogen electrocatalysis in the hydrogen-bromine redox flow battery. <i>Materials Today Energy</i> , 2022, 24, 100937.	4.7	2
83	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
84	In Situ Measurement of Localized Current Distribution in H ₂ -Br ₂ Redox Flow Batteries. <i>Energies</i> , 2021, 14, 4945.	3.1	1
85	Polymeric Honeycombs Decorated by Nickel Nanoparticles. <i>Science of Advanced Materials</i> , 2015, 7, 489-495.	0.7	1
86	Silver Oxygen Reduction Electrocatalyst in Alkaline Medium: Aging and Protective Coating. <i>Energy Technology</i> , 2021, 9, 2100546.	3.8	1
87	Metal-based nanoparticles as carriers of mTHPC drug for effective photodynamic therapy. , 2019, , .		1
88	Functionalisation, separation and solvation: general discussion. <i>Faraday Discussions</i> , 2014, 173, 337-349.	3.2	0
89	Organometallic deposition of ultrasmooth nanoscale Ni film. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	0
90	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

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91	First principles study of electrocatalytic behavior of olivine phosphates with mixed alkali and mixed transition metal atoms. RSC Advances, 2020, 10, 29175-29180.	3.6	0