

Sajjad S Mofarah

List of Publications by Year in descending order

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40
papers

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516215

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docs citations

41
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915
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. <i>Chemical Society Reviews</i> , 2021, 50, 10116-10211.	18.7	140
2	Self-Limiting Galvanic Growth of MnO ₂ Monolayers on a Liquid Metal Applied to Photocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1901649.	7.8	129
3	Proton-assisted creation of controllable volumetric oxygen vacancies in ultrathin CeO _{2-x} for pseudocapacitive energy storage applications. <i>Nature Communications</i> , 2019, 10, 2594.	5.8	75
4	Aqueous and Surface Chemistries of Photocatalytic Fe-Doped CeO ₂ Nanoparticles. <i>Catalysts</i> , 2017, 7, 45.	1.6	54
5	Design strategies for ceria nanomaterials: untangling key mechanistic concepts. <i>Materials Horizons</i> , 2021, 8, 102-123.	6.4	44
6	Alginate/Polymer-Based Materials for Fire Retardancy: Synthesis, Structure, Properties, and Applications. <i>Polymer Reviews</i> , 2021, 61, 357-414.	5.3	38
7	Band gap engineering of Ce-doped anatase TiO ₂ through solid solubility mechanisms and new defect equilibria formalism. <i>Nanoscale</i> , 2020, 12, 4916-4934.	2.8	37
8	Enhancement of Ce/Cr Codopant Solubility and Chemical Homogeneity in TiO ₂ Nanoparticles through Sol-Gel versus Pechini Syntheses. <i>Inorganic Chemistry</i> , 2018, 57, 7279-7289.	1.9	34
9	Surface, Subsurface, and Bulk Oxygen Vacancies Quantified by Decoupling and Deconvolution of the Defect Structure of Redox-Active Nanoceria. <i>Inorganic Chemistry</i> , 2019, 58, 6016-6027.	1.9	32
10	Recent advances of metal telluride anodes for high-performance lithium/sodium-ion batteries. <i>Materials Horizons</i> , 2022, 9, 524-546.	6.4	32
11	Coordination Polymer to Atomically Thin, Holey, Metal Oxide Nanosheets for Tuning Band Alignment. <i>Advanced Materials</i> , 2019, 31, e1905288.	11.1	31
12	Decoupling the Impacts of Engineering Defects and Band Gap Alignment Mechanism on the Catalytic Performance of Holey 2D CeO _{2-x} -Based Heterojunctions. <i>Advanced Functional Materials</i> , 2021, 31, 2103171.	7.8	27
13	Nanoscale niobium oxides anode for electrochemical lithium and sodium storage: a review of recent improvements. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 33-68.	5.3	25
14	Assembly of cerium-based coordination polymer into variant polycrystalline 2D-3D CeO _{2-x} nanostructures. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4753-4763.	5.2	20
15	Impact of Surface Defects on LaNiO ₃ Perovskite Electrocatalysts for the Oxygen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2021, 27, 14418-14426.	1.7	19
16	Highly catalytically active CeO _{2-x} -based heterojunction nanostructures with mixed micro/meso-porous architectures. <i>Nanoscale</i> , 2021, 13, 6764-6771.	2.8	16
17	Single-layer, anti-reflective thin films of porous MgF ₂ for solar thermal applications. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 315501.	1.3	14
18	Green Synthesis of Zwitterion-Functionalized Nano-Octahedral Ceria for Enhanced Intracellular Delivery and Cancer Therapy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9189-9201.	3.2	13

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19	Voltammetric sensor based on Pt nanoparticles supported MWCNT for determination of pesticide clomazone in water samples. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 105, 115-123.	2.7	12
20	Effect of Bi/Ti ratio on (Na _{0.5} Bi _{0.5})TiO ₃ /Bi ₄ Ti ₃ O ₁₂ heterojunction formation and photocatalytic performance. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106532.	3.3	11
21	Role of Oxygen Vacancy Ordering and Channel Formation in Tuning Intercalation Pseudocapacitance in Mo Single-Ion-Implanted CeO ₂ Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59820-59833.	4.0	11
22	Nanoscale design of 1D metal oxides derived from mixed Ni-MH battery/transition metal dust. <i>Journal of Hazardous Materials</i> , 2021, 415, 125645.	6.5	9
23	Transparent and Flexible Mn ¹⁺ Ultrathin Film Device for Highly Stable Pseudocapacitance Application. <i>Advanced Functional Materials</i> , 2021, 31, 2100880.	7.8	8
24	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. <i>Applied Materials Today</i> , 2022, 27, 101459.	2.3	7
25	Ionic interdiffusion as interaction mechanism between Al and Si ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 2019, 102, 4835-4847.	1.9	6
26	Multiwalled carbon nanotubes modified with MoO ₂ nanoparticles for voltammetric determination of the pesticide oxyfluorfen. <i>Mikrochimica Acta</i> , 2020, 187, 429.	2.5	6
27	Controllable design of defect-rich hybrid iron oxide nanostructures on mesoporous carbon-based scaffold for pseudocapacitive applications. <i>Nanoscale</i> , 2021, 13, 3662-3672.	2.8	6
28	Highly Mesoporous Hybrid Transition Metal Oxide Nanowires for Enhanced Adsorption of Rare Earth Elements from Wastewater. <i>Inorganic Chemistry</i> , 2021, 60, 175-184.	1.9	5
29	Dual functionality of mixed Cu-based two-dimensional (2D) heterostructures derived from electronic waste. <i>Green Chemistry</i> , 2021, 23, 5511-5523.	4.6	5
30	Na _{0.5} Bi _{0.5} TiO ₃ phase relations: Thermodynamics and phase equilibria in the systems Bi ₂ O ₃ –TiO ₂ , Na ₂ O–TiO ₂ , and Na ₂ O–Bi ₂ O ₃ –TiO ₂ . <i>Journal of the European Ceramic Society</i> , 2021, 41, 7005-7013.	2.8	5
31	Green Stealth Engineering of Lifetime-Biocatalytic Nanocatalyst for Neuroblastoma Therapy. <i>Applied Surface Science</i> , 2022, 572, 151464.	3.1	4
32	2D Materials: Coordination Polymer to Atomically Thin, Holey, Metal Oxide Nanosheets for Tuning Band Alignment (<i>Adv. Mater.</i> 52/2019). <i>Advanced Materials</i> , 2019, 31, 1970370.	11.1	3
33	Molecular dynamics simulation of vacancy cluster formation in \hat{I}^2 - and \hat{I}^{\pm} -Si ₃ N ₄ . <i>Computational Materials Science</i> , 2020, 178, 109632.	1.4	3
34	Unraveling the Role of Oxides in Electrochemical Performance of Activated Carbons for High Voltage Symmetric Electric Double-Layer Capacitors. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100130.	2.8	3
35	Self-adhesive flexible patches of oxide heterojunctions with tailored band alignments for electrocatalytic H ₂ O ₂ generation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26727-26740.	5.2	3
36	Regeneration of hydrogen through thermal micronisation of end-of-life polymers for sustainable reduction of iron oxide. <i>Fuel Processing Technology</i> , 2022, 226, 107038.	3.7	3

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37	Tailoring of a highly stable Mn _{1-x} Co _x (Ce _x La _y)O ₂ pseudocapacitor thin-film and rare earth oxide nanospheres through selective purification of rare earth oxides derived from Ni-MH batteries. <i>Green Chemistry</i> , 2022, 24, 1659-1672.	4.6	3
38	Morphological Mapping of Hydrothermally Synthesised Nanoceria at High Ce Concentrations. <i>ChemNanoMat</i> , 0, , .	1.5	1
39	Anionic Intercalation: Transparent and Flexible Mn _{1-x} Co _x (Ce _x La _y)O ₂ Ultrathin Film Device for Highly Stable Pseudocapacitance Application (<i>Adv. Funct. Mater.</i> 30/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170221.	7.8	0
40	Non-blockage of atomic-scale active sites in photocatalytic TiO ₂ thin films deposited on silica-based substrates. <i>Materials Chemistry and Physics</i> , 2022, , 126148.	2.0	0