

Tiju Thomas

List of Publications by Year in descending order

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180
papers

4,562
citations

117571

34
h-index

143943

57
g-index

183
all docs

183
docs citations

183
times ranked

5138
citing authors

#	ARTICLE	IF	CITATIONS
1	Zirconium nitride catalysts surpass platinum for oxygen reduction. <i>Nature Materials</i> , 2020, 19, 282-286.	13.3	293
2	Multicomponent equiatomic rare earth oxides with a narrow band gap and associated praseodymium multivalency. <i>Dalton Transactions</i> , 2017, 46, 12167-12176.	1.6	195
3	Geopolymer for use in heavy metals adsorption, and advanced oxidative processes: A critical review. <i>Journal of Cleaner Production</i> , 2019, 213, 42-58.	4.6	188
4	Nickel-Based Transition Metal Nitride Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2019, 12, 3941-3954.	3.6	150
5	Oxygen Reduction Reactions of Fe-N-C Catalysts: Current Status and the Way Forward. <i>Electrochemical Energy Reviews</i> , 2019, 2, 252-276.	13.1	119
6	Synthesis and application of nano-structured metal nitrides and carbides: A review. <i>Progress in Solid State Chemistry</i> , 2018, 50, 1-15.	3.9	104
7	Dual-Metal Interbonding as the Chemical Facilitator for Single-Atom Dispersions. <i>Advanced Materials</i> , 2020, 32, e2003484.	11.1	90
8	Efficient motion retrieval in large motion databases. , 2013, , .		84
9	Recent Advances in Transition Metal Nitride-Based Materials for Photocatalytic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2100553.	7.8	80
10	A Surface-Oxide-Rich Activation Layer (SOAL) on Ni ₂ Mo ₃ N for a Rapid and Durable Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18036-18041.	7.2	77
11	Hierarchical N-Doped Porous Carbons for Zn-Air Batteries and Supercapacitors. <i>Nano-Micro Letters</i> , 2020, 12, 20.	14.4	73
12	Multivalent Cu-Doped ZnO Nanoparticles with Full Solar Spectrum Absorbance and Enhanced Photoactivity. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5895-5904.	1.8	71
13	Self-sacrificing templated formation of Co ₃ O ₄ /ZnCo ₂ O ₄ composite hollow nanostructures for highly sensitive detecting acetone vapor. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1202-1210.	4.0	69
14	Understanding the photoluminescence behaviour in nano CaZrO ₃ :Eu ³⁺ pigments by Judd-Ofelt intensity parameters. <i>Dyes and Pigments</i> , 2018, 150, 306-314.	2.0	67
15	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6561-6566.	7.2	66
16	High entropy spinel metal oxide (CoCrFeMnNi) ₃ O ₄ nanoparticles as a high-performance supercapacitor electrode material. <i>Journal of Energy Storage</i> , 2021, 42, 103004.	3.9	66
17	Comparison of experimental and calculated thermophysical properties of alumina/cupric oxide hybrid nanofluids. <i>Journal of Molecular Liquids</i> , 2017, 244, 469-477.	2.3	65
18	Coordination Polymer-Derived Multishelled Mixed Ni-Co Oxide Microspheres for Robust and Selective Detection of Xylene. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15314-15321.	4.0	64

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19	Self-template derived ZnFe ₂ O ₄ double-shell microspheres for chemresistive gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 625-631.	4.0	64
20	What dominates heat transfer performance of hybrid nanofluid in single pass shell and tube heat exchanger?. <i>Advanced Powder Technology</i> , 2019, 30, 3107-3117.	2.0	63
21	Synthesis and photoluminescence properties of a novel Sr ₂ CeO ₄ :Dy ³⁺ nanophosphor with enhanced brightness by Li ⁺ co-doping. <i>RSC Advances</i> , 2014, 4, 38655-38662.	1.7	60
22	Ordered Mesoporous Cobalt-Nickel Nitride Prepared by Nanocasting for Oxygen Evolution Reaction Electrocatalysis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900960.	1.9	57
23	Auto-ignition based synthesis of Y ₂ O ₃ for photo- and thermo-luminescent applications. <i>Journal of Alloys and Compounds</i> , 2014, 585, 129-137.	2.8	56
24	Temperature-controlled spectral tuning of full-color carbon dots and their strongly fluorescent solid-state polymer composites for light-emitting diodes. <i>Nanoscale Advances</i> , 2019, 1, 1413-1420.	2.2	54
25	Ruthenium Triazine Composite: A Good Match for Increasing Hydrogen Evolution Activity through Contact Electrification. <i>Advanced Energy Materials</i> , 2020, 10, 2000067.	10.2	52
26	Yellow-emitting carbon-dots-impregnated carboxy methyl cellulose/poly-vinyl-alcohol and chitosan: stable, freestanding, enhanced-quenching Cu ²⁺ -ions sensor. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4508-4515.	2.7	51
27	Moss-Burstein effect in stable, cubic ZrO ₂ : Eu ³⁺ nanophosphors derived from rapid microwave-assisted solution-combustion technique. <i>Materials Research Bulletin</i> , 2018, 98, 139-147.	2.7	51
28	Charge compensation assisted enhancement of photoluminescence in combustion derived Li ⁺ co-doped cubic ZrO ₂ :Eu ³⁺ nanophosphors. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29447-29457.	1.3	50
29	Mixed ternary transition metal nitrides: A comprehensive review of synthesis, electronic structure, and properties of engineering relevance. <i>Progress in Solid State Chemistry</i> , 2019, 53, 1-26.	3.9	50
30	Porous coral-like NiCo ₂ O ₄ nanospheres with promising xylene gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 203-209.	4.0	47
31	Nickel-Iron Nitride-Nickel Sulfide Composites for Oxygen Evolution Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41464-41470.	4.0	44
32	Development of a Next-Generation Fluorescent Turn-On Sensor to Simultaneously Detect and Detoxify Mercury in Living Samples. <i>Analytical Chemistry</i> , 2019, 91, 3533-3538.	3.2	44
33	Ru-decorated WO ₃ nanosheets for efficient xylene gas sensing application. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154196.	2.8	39
34	Machine learning-based prediction of supercapacitor performance for a novel electrode material: Cerium oxynitride. <i>Energy Storage Materials</i> , 2021, 40, 426-438.	9.5	35
35	Metal Oxynitrides as Promising Electrode Materials for Supercapacitor Applications. <i>ChemElectroChem</i> , 2019, 6, 1255-1272.	1.7	34
36	Chromium-titanium nitride as an efficient co-catalyst for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15774-15781.	5.2	34

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37	Purifying Water Containing Both Anionic and Cationic Species Using a (Zn, Cu)O, ZnO, and Cobalt Ferrite Based Multiphase Adsorbent System. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16384-16395.	1.8	33
38	Combustion synthesis approach for spectral tuning of Eu doped CaAl ₂ O ₄ phosphors. <i>Journal of Alloys and Compounds</i> , 2014, 589, 596-603.	2.8	32
39	Structural, optical, and Raman studies of Gd doped sodium bismuth titanate. <i>Ceramics International</i> , 2018, 44, 12118-12124.	2.3	32
40	Engineering Co ³⁺ cations in Co ₃ O ₄ multishelled microspheres by Mn doping: The roles of Co ³⁺ and oxygen species for sensitive xylene detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127651.	4.0	31
41	S, N co-doped graphene quantum dots decorated TiO ₂ and supported with carbon for oxygen reduction reaction catalysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21549-21565.	3.8	31
42	Crystal structure classification in ABO ₃ perovskites via machine learning. <i>Computational Materials Science</i> , 2021, 188, 110191.	1.4	30
43	Luminescence enhancement in monoclinic CaAl ₂ O ₄ :Eu ²⁺ , Cr ³⁺ nanophosphor by fuel-blend combustion synthesis. <i>Chemical Engineering Journal</i> , 2015, 267, 317-323.	6.6	29
44	Ni-Mo ternary nitrides based one-dimensional hierarchical structures for efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 381, 122611.	6.6	29
45	Momordica Charantia pericarp derived activated carbon with dual redox additive electrolyte for high energy density supercapacitor devices. <i>Journal of Energy Storage</i> , 2022, 48, 104048.	3.9	29
46	Holey Sheets of Interconnected Carbon-Coated Nickel Nitride Nanoparticles as Highly Active and Durable Oxygen Evolution Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 6774-6780.	2.5	28
47	Highly Sensitive As ³⁺ Detection Using Electrodeposited Nanostructured MnO _x and Phase Evolution of the Active Material during Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28154-28163.	4.0	27
48	Ni ₃ N-V ₂ O ₃ enables highly efficient 5-(Hydroxymethyl) furfural oxidation enabling membrane free hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 415, 128864.	6.6	27
49	Techno-economic understanding of Indian energy-storage market: A perspective on green materials-based supercapacitor technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112412.	8.2	27
50	Ultra-small (<math>r < 2 \text{ \AA}</math>), stable (>1 year) copper oxide quantum dots with wide band gap. <i>Superlattices and Microstructures</i> , 2018, 113, 600-607.	1.4	26
51	Pt/WN based fuel cell type methanol sensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127686.	4.0	26
52	Co ₃ Mo ₃ N ₆ —An efficient multifunctional electrocatalyst. <i>Innovation(China)</i> , 2021, 2, 100096.	5.2	26
53	Large-scale synthesis of dual-emitting-based visualization sensing paper for humidity and ethanol detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 9-15.	4.0	25
54	Boosting Oxygen Reduction for High Efficiency H ₂ O ₂ Electrosynthesis on Oxygen-Coordinated Co _{1-x} Ni _x C Catalysts. <i>Small</i> , 2022, 18, e2200730.	5.2	25

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55	Electric field induced short range to long range structural ordering and its influence on the Eu ³⁺ photoluminescence in the lead-free ferroelectric Na _{1/2} Bi _{1/2} TiO ₃ . <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	24
56	Enhanced, stable, humidity-tolerant xylene sensing using ordered macroporous NiO/ZrO ₂ nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128648.	4.0	24
57	Platinum decorated mesoporous titanium nitride for fuel-cell type methanol gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127713.	4.0	24
58	Nanocomposites of digestively ripened copper oxide quantum dots and graphene oxide as a binder free battery-like supercapacitor electrode material. <i>Electrochimica Acta</i> , 2019, 321, 134709.	2.6	23
59	Fabrication of Calotropis Gigantea fibre reinforced compression spring for light weight applications. <i>Composites Part B: Engineering</i> , 2019, 172, 281-289.	5.9	22
60	Metal organic framework-derived porous Fe ₂ N nanocubes by rapid-nitridation for efficient photocatalytic hydrogen evolution. <i>Materials Advances</i> , 2020, 1, 1161-1167.	2.6	22
61	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie</i> , 2021, 133, 6635-6640.	1.6	22
62	Highly Localized C≡N ₂ Sites for Efficient Oxygen Reduction. <i>ACS Catalysis</i> , 2020, 10, 9366-9375.	5.5	21
63	Synergistic Effect of Mo + Cu Codoping on the Photocatalytic Behavior of Metastable TiO ₂ Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29788-29795.	1.5	20
64	Visual and Optical Sensing of Hg ²⁺ , Cd ²⁺ , Cu ²⁺ , and Pb ²⁺ in Water and Its Beneficiation via Gettering in Nanoamalgam Form. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3497-3503.	3.2	20
65	Amphotericity-spectroscopy correlations in Eu doped sodium bismuth titanate (Na _{0.5} Bi _{0.5} TiO ₃). <i>Materialia</i> , 2019, 7, 100426.	1.3	20
66	Chromium Oxynitride as Durable Electrode Material for Symmetric Supercapacitors. <i>Batteries and Supercaps</i> , 2020, 3, 780-788.	2.4	20
67	Oxygen Coordination on Fe≡N≡C to Boost Oxygen Reduction Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 517-524.	2.1	20
68	Self-Assembled, Aligned ZnO Nanorod Buffer Layers for High-Current-Density, Inverted Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16792-16799.	4.0	19
69	Crucial Role of Donor Density in the Performance of Oxynitride Perovskite LaTiO ₂ N for Photocatalytic Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 930-937.	3.6	19
70	Enhancement of martensite transition temperature and inverse magnetocaloric effect in Ni ₄₃ Mn ₄₇ Sn ₁₁ alloy with B doping. <i>Journal of Alloys and Compounds</i> , 2019, 795, 519-527.	2.8	19
71	Ordered mesoporous transition metal nitrides prepared through hard template nanocasting and rapid nitridation process. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155375.	2.8	19
72	Supporting nickel on vanadium nitride for comparable hydrogen evolution performance to platinum in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19669-19674.	5.2	19

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73	Correlations between mechanical and photoluminescence properties in Eu doped sodium bismuth titanate. <i>Solid State Communications</i> , 2013, 173, 38-41.	0.9	18
74	Combining "chimie douce" and green principles for the developing world: Improving industrial viability of photocatalytic water remediation. <i>Chemical Engineering Science</i> , 2013, 102, 283-288.	1.9	18
75	Visible light photocatalysts (Fe, N):TiO ₂ from ammonothermally processed, solvothermal self-assembly derived Fe-TiO ₂ mesoporous microspheres. <i>Materials Chemistry and Physics</i> , 2017, 195, 259-267.	2.0	18
76	Geometric Structure and Electronic Polarization Synergistically Boost Hydrogen Evolution Kinetics in Alkaline Medium. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3436-3442.	2.1	18
77	Discovery of direct band gap perovskites for light harvesting by using machine learning. <i>Computational Materials Science</i> , 2022, 210, 111476.	1.4	18
78	Direct band gap narrowing and light-harvesting-potential in orthorhombic In-doped-AlFeO ₃ perovskite: A first principles study. <i>Journal of Alloys and Compounds</i> , 2018, 750, 312-319.	2.8	17
79	SixC1 ^x O ₂ alloys: A possible route to stabilize carbon-based silica-like solids?. <i>Solid State Communications</i> , 2007, 144, 273-276.	0.9	16
80	Size Control and Magnetic Property Trends in Cobalt Ferrite Nanoparticles Synthesized Using an Aqueous Chemical Route. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-8.	1.2	16
81	Digestive ripening and green synthesis of ultra-small (<2nm) stable ZnO quantum dots. <i>Ceramics International</i> , 2014, 40, 13945-13952.	2.3	16
82	Co-precipitation strategy for engineering pH-tolerant and durable ZnO@MgO nanospheres for efficient, room-temperature, chemisorptive removal of Pb(II) from water. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103019.	3.3	16
83	Selective and Continuous Electrosynthesis of Hydrogen Peroxide on Nitrogen-doped Carbon Supported Nickel. <i>Cell Reports Physical Science</i> , 2020, 1, 100255.	2.8	16
84	Effect of nitridation on visible light photocatalytic behavior of microporous (Ag, Ag ₂ O) co-loaded TiO ₂ . <i>Microporous and Mesoporous Materials</i> , 2017, 240, 137-144.	2.2	15
85	Indications of hard-soft-acid-base interactions governing formation of ultra-small (< 3 nm) digestively ripened copper oxide quantum-dots. <i>Chemical Physics Letters</i> , 2017, 685, 84-88.	1.2	15
86	Analysis of Charge Storage Behavior in Redox-electrolyte Based Battery-like systems: A Case Study on Zr-doped Ceria. <i>ChemistrySelect</i> , 2020, 5, 1628-1639.	0.7	15
87	Purification and mechanical nanosizing of Eu-doped GaN. <i>Journal of Crystal Growth</i> , 2009, 311, 4402-4407.	0.7	14
88	Enhanced photocatalytic degradation of rhodamine B under visible light irradiation on mesoporous anatase TiO ₂ microspheres by codoping with W and N. <i>Solid State Sciences</i> , 2016, 54, 49-53.	1.5	14
89	Nanourchin ZnO@TiCN composites for Cr(VI) adsorption and thermochemical remediation. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3837-3848.	3.3	14
90	Mesoporous titanium niobium nitrides supported Pt nanoparticles for highly selective and sensitive formaldehyde sensing. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19840-19846.	5.2	14

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91	Photoluminescence, thermoluminescence and EPR studies of solvothermally derived Ni ²⁺ doped Y(OH) ₃ and Y ₂ O ₃ multi-particle-chain microrods. <i>Journal of Luminescence</i> , 2014, 155, 125-134.	1.5	13
92	Enhanced visible light photocatalytic activity in N-doped edge- and corner-truncated octahedral Cu ₂ O. <i>Solid State Sciences</i> , 2017, 65, 22-28.	1.5	13
93	Low defect density, high surface area LaNbON ₂ prepared via nitridation of La ₃ NbO ₇ . <i>Materials Letters</i> , 2017, 188, 212-214.	1.3	13
94	Critical role of surfactants in the formation of digestively-ripened, ultra-small (2 nm) copper oxide quantum dots. <i>Superlattices and Microstructures</i> , 2018, 116, 122-130.	1.4	13
95	Investigation of magnetocaloric and mechanical properties of Ni _{49-x} Mn ₃₉ Sb ₁₂ Cox alloys. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156558.	2.8	13
96	Zr substitution aided enhancement of pseudocapacitive behavior of ceria. <i>Materials Letters</i> , 2020, 266, 127500.	1.3	13
97	Amine coupled ordered mesoporous (Co-N) co-doped TiO ₂ : a green photocatalyst for the selective aerobic oxidation of thioether. <i>Catalysis Science and Technology</i> , 2017, 7, 4182-4192.	2.1	12
98	Integrating trace amounts of Pd nanoparticles into Mo ₃ N ₂ nanobelts for an improved hydrogen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 771-777.	1.3	12
99	Soft modes at the stacking faults in SiC crystals: First-principles calculations. <i>Physical Review B</i> , 2008, 77, .	1.1	11
100	Chimie douce hydrogen production from Hg contaminated water, with desirable throughput, and simultaneous Hg-removal. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15724-15730.	3.8	11
101	Strain-induced effects in the electronic and optical properties of Na _{0.5} Bi _{0.5} TiO ₃ : An ab-initio study. <i>Materials Today Communications</i> , 2020, 24, 101348.	0.9	11
102	Hydrogen production from human and cow urine using in situ synthesized aluminium nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27319-27329.	3.8	11
103	MOF-Derived Porous Ternary Nickel Iron Nitride Nanocube as a Functional Catalyst toward Water Splitting Hydrogen Evolution for Solar to Chemical Energy Conversion. <i>ACS Applied Energy Materials</i> , 2022, 5, 6155-6162.	2.5	11
104	Synthesis of Stable Al(O) Nanoparticles in Water in the form of Al(O)@Cu and Sequestration of Cu ²⁺ (aq) with Simultaneous H ₂ Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10332-10339.	3.2	10
105	Solid-Solid Separation Approach for Preparation of Carbon-Supported Cobalt Carbide Nanoparticle Catalysts for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2019, 2, 3662-3670.	2.4	10
106	Correlation of micellar aggregation & complexation regimes to discern stability of micellar structure and nano-encapsulation. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 234-244.	5.0	10
107	Experimental and Theoretical Insights of MoS ₂ /Mo ₃ N ₂ Nanoribbon Electro-catalysts for Efficient Hydrogen Evolution Reaction. <i>ChemCatChem</i> , 2020, 12, 122-128.	1.8	10
108	Recent Advances in Nanocasting Cobalt-Based Mesoporous Materials for Energy Storage and Conversion. <i>Electrocatalysis</i> , 2020, 11, 465-484.	1.5	10

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109	Vehicular soot for improvement of chemical stability of cement composites towards acid rain and sewage like atmospheres. <i>Construction and Building Materials</i> , 2020, 248, 118604.	3.2	10
110	Interface engineering of mesoporous triphasic cobalt-copper phosphides as active electrocatalysts for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1366-1373.	2.5	10
111	Amphoteric behavior of Dy ³⁺ in Na _{0.5} Bi _{0.5} TiO ₃ : Neutron diffraction and Raman studies. <i>Ceramics International</i> , 2021, 47, 12870-12878.	2.3	10
112	High pressure luminescence studies of europium doped GaN. <i>Journal of Rare Earths</i> , 2009, 27, 667-670.	2.5	9
113	Optical properties, luminescence quenching mechanism and radiation hardness of Eu-doped GaN red powder phosphor. <i>Radiation Measurements</i> , 2010, 45, 500-502.	0.7	9
114	Impact of solvent on the formation and optical properties of digestively ripened, ultra-small (r ≈ 2 nm) copper oxide quantum dots. <i>Journal of Molecular Liquids</i> , 2018, 265, 771-778.	2.3	9
115	Optimization of surface treatment in <i>Calotropis Gigantea</i> (CG)-fibre yarn by simple techniques and characterization of CG fibre yarn reinforced laminate. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12187-12200.	2.6	9
116	Al-Cu core-shell nanoparticles as an alternative to noble metal plasmonics: A computational study. <i>Materials Chemistry and Physics</i> , 2020, 253, 123419.	2.0	9
117	Ceria for supercapacitors: Dopant prediction, and validation in a device. <i>Applied Materials Today</i> , 2020, 21, 100872.	2.3	9
118	Ultra-low Loading of Au Clusters on Nickel Nitride Efficiently Boosts Photocatalytic Hydrogen Production with Titanium Dioxide. <i>ChemCatChem</i> , 2020, 12, 2752-2759.	1.8	9
119	Nitridation of CoWO ₄ /CdS Nanocomposite Formed Metal Nitrides Assisting Efficiently Photocatalytic Hydrogen Evolution. <i>ACS Omega</i> , 2020, 5, 9969-9976.	1.6	9
120	Waste-to-wealth approach in water economy: The case of beneficiation of mercury-contaminated water in hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26677-26692.	3.8	9
121	Mesoporous Ti _{0.5} Cr _{0.5} N for trace H ₂ S detection with excellent long-term stability. <i>Journal of Hazardous Materials</i> , 2022, 423, 127193.	6.5	9
122	Structural and Electrochemical Investigations on Nanocrystalline High Entropy Spinel Oxides for Battery-Like Supercapacitor Applications. <i>ChemistrySelect</i> , 2022, 7, e202104015.	0.7	9
123	Co ₄ N-WN composite for efficient piezocatalytic hydrogen evolution. <i>Dalton Transactions</i> , 2022, 51, 7127-7134.	1.6	9
124	Methane-Sensing Performance Enhancement in Graphene Oxide/Mg:ZnO Heterostructure Devices. <i>Journal of Electronic Materials</i> , 2017, 46, 5485-5491.	1.0	8
125	Hole-Collecting Treated Graphene Layer and PTB7:PC ₇₁ BM-Based Bulk-Heterojunction OPV With Improved Carrier Collection and Photovoltaic Efficiency. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4548-4554.	1.6	8
126	Gold Nanocluster-Decorated Nickel Nitride as Stable Electrocatalyst for Oxygen Evolution Reaction in Alkaline Media. <i>ChemElectroChem</i> , 2019, 6, 5744-5749.	1.7	8

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127	Physicochemical properties of chimie douce derived, digestively ripened, ultra-small (r<2â€%nm) ZnO QDs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 310-317.	2.3	8
128	Effective mass and optical properties of orthorhombic Al _{1-x} In _x FeO ₃ perovskite: An ab-initio study. Computational Materials Science, 2019, 159, 222-227.	1.4	8
129	Magnetism, half-metallicity and bonding in AlFeO ₃ and the impact of In-doping. Journal of Magnetism and Magnetic Materials, 2020, 497, 165909.	1.0	8
130	Anti-perovskite metal carbides: A new family of promising electrocatalysts for oxygen reduction in alkaline solution. Materials Research Bulletin, 2021, 133, 111014.	2.7	8
131	Scalable Drop-to-Film Condensation on a Nanostructured Hierarchical Surface for Enhanced Humidity Harvesting. ACS Applied Nano Materials, 2021, 4, 1540-1550.	2.4	8
132	Hybrid-Organic-Photodetector Containing Chemically Treated ZnMgO Layer With Promising and Reliable Detectivity, Responsivity and Low Dark Current. IEEE Transactions on Device and Materials Reliability, 2019, 19, 193-200.	1.5	7
133	Template synthesis of CoFe ₂ O ₄ extended surface microspheres for efficient water decontamination and absorption of electromagnetic waves: Twin behavior. Materials Research Express, 2019, 6, 075506.	0.8	7
134	Stability and amphotericity analysis in rhombohedral ABO ₃ perovskites. Materialia, 2020, 13, 100819.	1.3	7
135	Aluminium nanoparticles alloyed with other earth-abundant plasmonic metals for light trapping in thin-film a-Si solar cells. Sustainable Materials and Technologies, 2021, 28, e00250.	1.7	7
136	Chromium Oxynitride (CrON) Nanoparticles: an Unexplored Electrocatalyst for Oxygen Evolution Reaction. Electrocatalysis, 2022, 13, 62-71.	1.5	7
137	Enhanced photo-fenton and photoelectrochemical activities in nitrogen doped brownmillerite KBiFe ₂ O ₅ . Scientific Reports, 2022, 12, 5111.	1.6	7
138	A dimethyl disulfide gas sensor based on nanosized Pt-loaded tetrakaidecahedral γ -Fe ₂ O ₃ nanocrystals. Nanotechnology, 2022, 33, 405502.	1.3	7
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