

Tiju Thomas

List of Publications by Year in descending order

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Version: 2024-02-01

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	Mesoporous Ti _{0.5} Cr _{0.5} N for trace H ₂ S detection with excellent long-term stability. Journal of Hazardous Materials, 2022, 423, 127193.	6.5	9
2	Chromium Oxynitride (CrON) Nanoparticles: an Unexplored Electrocatalyst for Oxygen Evolution Reaction. Electrochimica Acta, 2022, 13, 62-71.	1.5	7
3	Integrating trace amounts of Pd nanoparticles into Mo ₃ N ₂ nanobelts for an improved hydrogen evolution reaction. Physical Chemistry Chemical Physics, 2022, 24, 771-777.	1.3	12
4	Physical and Mathematical Modelling of Fluid and Heat Transport Phenomena in Porous Media. Engineering Materials, 2022, , 661-688.	0.3	0
5	Carbon-Encapsulated Cobalt Phosphide Catalyst for Efficient Electrochemical Synthesis of Hydrogen Peroxide. Journal of the Electrochemical Society, 2022, 169, 024509.	1.3	1
6	Structural and Electrochemical Investigations on Nanocrystalline High Entropy Spinel Oxides for Battery-Like Supercapacitor Applications. ChemistrySelect, 2022, 7, e202104015.	0.7	9
7	Momordica Charantia pericarp derived activated carbon with dual redox additive electrolyte for high energy density supercapacitor devices. Journal of Energy Storage, 2022, 48, 104048.	3.9	29
8	Enhanced photo-fenton and photoelectrochemical activities in nitrogen doped brownmillerite KBiFe ₂ O ₅ . Scientific Reports, 2022, 12, 5111.	1.6	7
9	A dimethyl disulfide gas sensor based on nanosized Pt-loaded tetrakaidecahedral Fe ₂ O ₃ nanocrystals. Nanotechnology, 2022, 33, 405502.	1.3	7
10	Boosting Oxygen Reduction for High-Efficiency H ₂ O ₂ Electrosynthesis on Oxygen-Coordinated Co ₂ Ni ₂ C Catalysts. Small, 2022, 18, e2200730.	5.2	25
11	Chimie douce derived Nickel Cobalt oxynitride as electrode material for high energy density supercapacitors. Electrochimica Acta, 2022, 418, 140341.	2.6	1
12	Techno-economic understanding of Indian energy-storage market: A perspective on green materials-based supercapacitor technologies. Renewable and Sustainable Energy Reviews, 2022, 161, 112412.	8.2	27
13	Co ₄ W composite for efficient piezocatalytic hydrogen evolution. Dalton Transactions, 2022, 51, 7127-7134.	1.6	9
14	MOF-Derived Porous Ternary Nickel Iron Nitride Nanocube as a Functional Catalyst toward Water Splitting Hydrogen Evolution for Solar to Chemical Energy Conversion. ACS Applied Energy Materials, 2022, 5, 6155-6162.	2.5	11
15	Discovery of direct band gap perovskites for light harvesting by using machine learning. Computational Materials Science, 2022, 210, 111476.	1.4	18
16	Mo ₃ N ₂ /VO ₂ composite as electrocatalysts for hydrogen evolution reaction. Inorganic Chemistry Communication, 2022, 142, 109614.	1.8	1
17	Factors determining the band gap of a nanocrystalline multicomponent equimolar transition metal based high entropy oxide (Co,Cu,Mg,Ni,Zn)O. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 283, 115847.	1.7	3
18	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

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19	Crystal structure classification in ABO ₃ perovskites via machine learning. Computational Materials Science, 2021, 188, 110191.	1.4	30
20	Interface engineering of mesoporous triphasic cobalt-copper phosphides as active electrocatalysts for overall water splitting. Sustainable Energy and Fuels, 2021, 5, 1366-1373.	2.5	10
21	Machine learning based a priori prediction on powder samples of sintering-driven abnormal grain growth. Computational Materials Science, 2021, 187, 110117.	1.4	4
22	Mesoporous titanium niobium nitrides supported Pt nanoparticles for highly selective and sensitive formaldehyde sensing. Journal of Materials Chemistry A, 2021, 9, 19840-19846.	5.2	14
23	Nitrogen, sulfur co-doped carbon coated zinc sulfide for efficient hydrogen peroxide electrosynthesis. Dalton Transactions, 2021, 50, 5416-5419.	1.6	6
24	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
25	Surface Functionalized Sensors for Humidity-Independent Gas Detection. Angewandte Chemie, 2021, 133, 6635-6640.	1.6	22
26	Surface Functionalized Sensors for Humidity-Independent Gas Detection. Angewandte Chemie - International Edition, 2021, 60, 6561-6566.	7.2	66
27	Modeling of Newtonian and non-Newtonian-based coolants for deployment in industrial length-scale shell and tube heat exchanger. International Journal of Modern Physics C, 2021, 32, 2150085.	0.8	2
28	Recent Advances in Transition Metal Nitride-Based Materials for Photocatalytic Applications. Advanced Functional Materials, 2021, 31, 2100553.	7.8	80
29	Temperature and Stability Study of All Oxynitride-Based Asymmetric Supercapacitor. ECS Meeting Abstracts, 2021, MA2021-01, 2081-2081.	0.0	0
30	Amphoteric behavior of Dy ³⁺ in Na _{0.5} Bi _{0.5} TiO ₃ : Neutron diffraction and Raman studies. Ceramics International, 2021, 47, 12870-12878.	2.3	10
31	Influences of Temperature on Band Energetics and Electrochemical Performance of Cerium Oxynitride in a Symmetric Aqua-Based Supercapacitor. ECS Meeting Abstracts, 2021, MA2021-01, 2080-2080.	0.0	0
32	Co ₃ Mo ₃ N ₄ —An efficient multifunctional electrocatalyst. Innovation(China), 2021, 2, 100096.	5.2	26
33	S, N co-doped graphene quantum dots decorated TiO ₂ and supported with carbon for oxygen reduction reaction catalysis. International Journal of Hydrogen Energy, 2021, 46, 21549-21565.	3.8	31
34	Ni ₃ N-V ₂ O ₃ enables highly efficient 5-(Hydroxymethyl) furfural oxidation enabling membrane free hydrogen production. Chemical Engineering Journal, 2021, 415, 128864.	6.6	27
35	Waste-to-wealth approach in water economy: The case of beneficiation of mercury-contaminated water in hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 26677-26692.	3.8	9
36	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

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37	Ionic amphiphile stabilized reverse micellar systems and their implications for nanoencapsulation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 620, 126591.	2.3	2
38	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
39	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
40	Modelling core-shell plasmonic nanoparticles as homogenous systems: An effective refractive index approach. <i>Materialia</i> , 2021, 19, 101183.	1.3	2
41	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
42	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
43	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
44	CuO-ZnO Based Heterostructure Supported on Nitrogen-Doped Carbon for Oxygen Reduction Catalysis. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1915-1915.	0.0	0
45	Preparation of Aluminium Oxide Nanoparticles USING green synthesis. , 2021, , .		0
46	Ni-Mo ternary nitrides based one-dimensional hierarchical structures for efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 381, 122611.	6.6	29
47	Size- and temperature-dependent specific heat capacity and diffusion constants of ultra-small BaTaO ₂ N nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 767-773.	1.6	1
48	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
49	Magnetism, half-metallicity and bonding in AlFeO ₃ and the impact of In-doping. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165909.	1.0	8
50	Pt/WN based fuel cell type methanol sensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127686.	4.0	26
51	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
52	Multicomponent equiatomic lead strontium calcium titanate (Pb Sr Ca) Ti O ₃ prepared by reverse co-precipitation. <i>Materialia</i> , 2020, 9, 100571.	1.3	3
53	Zirconium nitride catalysts surpass platinum for oxygen reduction. <i>Nature Materials</i> , 2020, 19, 282-286.	13.3	293
54	Ordered mesoporous carbon assisted Fe-N-C for efficient oxygen reduction catalysis in both acidic and alkaline media. <i>Nanotechnology</i> , 2020, 31, 165708.	1.3	5

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55	Dual-Metal Interbonding as the Chemical Facilitator for Single-Atom Dispersions. <i>Advanced Materials</i> , 2020, 32, e2003484.	11.1	90
56	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
57	Semiconductor-based thermal wave crystals. <i>ISSS Journal of Micro and Smart Systems</i> , 2020, 9, 181-189.	1.0	5
58	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
59	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
60	Stability and amphotericity analysis in rhombohedral ABO ₃ perovskites. <i>Materialia</i> , 2020, 13, 100819.	1.3	7
61	Highly Localized C-N ₂ Sites for Efficient Oxygen Reduction. <i>ACS Catalysis</i> , 2020, 10, 9366-9375.	5.5	21
62	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
63	Cobalt Nanoparticles Modified Single-Walled Titanium Carbonitride Nanotube Derived from Solid-Solid Separation for Oxygen Reduction Reaction in Alkaline Solution. <i>Electrocatalysis</i> , 2020, 11, 579-592.	1.5	3
64	Nickel-Iron Nitride-Nickel Sulfide Composites for Oxygen Evolution Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41464-41470.	4.0	44
65	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
66	Ceria for supercapacitors: Dopant prediction, and validation in a device. <i>Applied Materials Today</i> , 2020, 21, 100872.	2.3	9
67	FeNi ₃ -FeNi ₃ N a high-performance catalyst for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6245-6250.	2.5	5
68	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
69	A size tunable bimetallic nickel-zinc nitride as a multi-functional co-catalyst on nitrogen doped titania boosts solar energy conversion. <i>Dalton Transactions</i> , 2020, 49, 4887-4895.	1.6	3
70	Flower-like FeS Coated with Heteroatom (S,N)-Doped Carbon as Highly Active and Durable Oxygen Reduction Electrocatalysts. <i>ChemElectroChem</i> , 2020, 7, 2433-2439.	1.7	6
71	Recent Advances in Nanocasting Cobalt-Based Mesoporous Materials for Energy Storage and Conversion. <i>Electrocatalysis</i> , 2020, 11, 465-484.	1.5	10
72	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

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73	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
74	Chromium Oxynitride as Durable Electrode Material for Symmetric Supercapacitors. <i>Batteries and Supercaps</i> , 2020, 3, 780-788.	2.4	20
75	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
76	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
77	Multifunctional hosts of Zinc sulfide coated carbon nanotubes for lithium sulfur batteries. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
78	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
79	A Surface-Oxide-Rich Activation Layer (SOAL) on Ni ₂ Mo ₃ N for a Rapid and Durable Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020, 132, 18192-18197.	1.6	4
80	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
81	Zr substitution aided enhancement of pseudocapacitive behavior of ceria. <i>Materials Letters</i> , 2020, 266, 127500.	1.3	13
82	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
83	Ru-decorated WO ₃ nanosheets for efficient xylene gas sensing application. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154196.	2.8	39
84	Hierarchical N-Doped Porous Carbons for Zn-Air Batteries and Supercapacitors. <i>Nano-Micro Letters</i> , 2020, 12, 20.	14.4	73
85	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
86	Iron based chalcogenide and pnictide superconductors: From discovery to chemical ways forward. <i>Progress in Solid State Chemistry</i> , 2020, 59, 100282.	3.9	4
87	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
88	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
89	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
90	Influence of Nitridation on Structural and Photoluminescence Behaviour of CaZrO ₃ :Eu ³⁺ Nanophosphors. <i>Asian Journal of Chemistry</i> , 2020, 32, 1515-1519.	0.1	0

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91	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
92	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
93	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
94	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
95	Ordered Mesoporous Cobalt-Nickel Nitride Prepared by Nanocasting for Oxygen Evolution Reaction Electrocatalysis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900960.	1.9	57
96	Modelling thermochemical reversible dot-to-rod transformation in colloidal nanomaterials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123784.	2.3	0
97	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
98	Hybrid-Organic-Photodetector Containing Chemically Treated ZnMgO Layer With Promising and Reliable Detectivity, Responsivity and Low Dark Current. <i>IEEE Transactions on Device and Materials Reliability</i> , 2019, 19, 193-200.	1.5	7
99	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
100	Synthesis of Stable Al(0) Nanoparticles in Water in the form of Al(0)@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
101	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
102	Physicochemical properties of chimie douce derived, digestively ripened, ultra-small (r<20nm) ZnO QDs. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 575, 310-317.	2.3	8
103	Do depletant stabilized water-in-oil microemulsions have implications for nanoencapsulation?. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 440-448.	2.3	6
104	Nickel-Based Transition Metal Nitride Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2019, 12, 3941-3954.	3.6	150
105	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
106	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
107	Template synthesis of CoFe ₂ O ₄ extended surface microspheres for efficient water decontamination and absorption of electromagnetic waves: Twin behavior. <i>Materials Research Express</i> , 2019, 6, 075506.	0.8	7
108	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

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109	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
110	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
111	Al-In nanoparticles and their clusters as solar spectrum plasmonic resonators. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 242, 75-82.	1.7	3
112	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
113	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
114	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
115	Effective mass and optical properties of orthorhombic Al _{1-x} In _x FeO ₃ perovskite: An ab-initio study. <i>Computational Materials Science</i> , 2019, 159, 222-227.	1.4	8
116	Metal Oxynitrides as Promising Electrode Materials for Supercapacitor Applications. <i>ChemElectroChem</i> , 2019, 6, 1255-1272.	1.7	34
117	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
118	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
119	Critical role of surfactants in the formation of digestively-ripened, ultra-small ($r \leq 2 \text{ nm}$) copper oxide quantum dots. <i>Superlattices and Microstructures</i> , 2018, 116, 122-130.	1.4	13
120	Structural, optical, and Raman studies of Gd doped sodium bismuth titanate. <i>Ceramics International</i> , 2018, 44, 12118-12124.	2.3	32
121	Surface enthalpy driven size focussing trends: Predictive modelling for digestive ripening of spherical particles. <i>Applied Surface Science</i> , 2018, 448, 248-253.	3.1	5
122	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
123	Size-dependent disproportionation (in $\sim 20 \text{ \AA}$ regime) and hybrid Bond Valence derived interatomic potentials for BaTaO ₂ N. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1379-1388.	1.6	3
124	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
125	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
126	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

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127	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
128	Suppression of Red Luminescence in Wire Explosion Derived Eu:ZnO. <i>Journal of Electronic Materials</i> , 2018, 47, 1924-1931.	1.0	1
129	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
130	Ultra-small (2Å), stable (>1 year) copper oxide quantum dots with wide band gap. <i>Superlattices and Microstructures</i> , 2018, 113, 600-607.	1.4	26
131	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
132	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
133	Impact of solvent on the formation and optical properties of digestively ripened, ultra-small (2Å) copper oxide quantum dots. <i>Journal of Molecular Liquids</i> , 2018, 265, 771-778.	2.3	9
134	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
135	Evidence of nano-galvanic couple formation on in-situ formed nano-aluminum amalgam surfaces for passivation-bypassed water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 10878-10886.	3.8	6
136	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
137	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
138	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
139	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
140	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
141	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
142	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
143	Low defect density, high surface area LaNbO ₇ prepared via nitridation of La ₃ NbO ₇ . <i>Materials Letters</i> , 2017, 188, 212-214.	1.3	13
144	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

#	ARTICLE	IF	CITATIONS
145	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
146	Indications of hard-soft-acid-base interactions governing formation of ultra-small ($r < 3$ nm) digestively ripened copper oxide quantum-dots. <i>Chemical Physics Letters</i> , 2017, 685, 84-88.	1.2	15
147	Methane-Sensing Performance Enhancement in Graphene Oxide/Mg:ZnO Heterostructure Devices. <i>Journal of Electronic Materials</i> , 2017, 46, 5485-5491.	1.0	8
148	Amine coupled ordered mesoporous (Co \AA 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
149	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
150	Effect of nitrogen substitution on the structural and magnetic ordering transitions of NiCr ₂ O ₄ . <i>RSC Advances</i> , 2016, 6, 112140-112147.	1.7	6
151	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
152	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
153	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
154	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
155	Nanorod to quantum dot conversion in ZnO dispersions with co-surfactants. <i>RSC Advances</i> , 2015, 5, 15154-15158.	1.7	6
156	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
157	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
158	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
159	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
160	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
161	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
162	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

#	ARTICLE	IF	CITATIONS
163	Combustion synthesis approach for spectral tuning of Eu doped CaAl ₂ O ₄ phosphors. Journal of Alloys and Compounds, 2014, 589, 596-603.	2.8	32
164	Digestive ripening and green synthesis of ultra-small (<2nm) stable ZnO quantum dots. Ceramics International, 2014, 40, 13945-13952.	2.3	16
165	Correlations between mechanical and photoluminescence properties in Eu doped sodium bismuth titanate. Solid State Communications, 2013, 173, 38-41.	0.9	18
166	Combining "chimie douce" and green principles for the developing world: Improving industrial viability of photocatalytic water remediation. Chemical Engineering Science, 2013, 102, 283-288.	1.9	18
167	Purifying Water Containing Both Anionic and Cationic Species Using a (Zn, Cu)O, ZnO, and Cobalt Ferrite Based Multiphase Adsorbent System. Industrial & Engineering Chemistry Research, 2013, 52, 16384-16395.	1.8	33
168	Efficient motion retrieval in large motion databases. , 2013, , .		84
169	Organic solar cell by using vertically aligned nanostructured ZnO nanorods. , 2013, , .		1
170	Lateral Heterogeneities in ZnO Electrodeposits and Their Impact on Electrical and Optical Properties. ECS Solid State Letters, 2012, 1, P35-P37.	1.4	3
171	Gallium nitride powders: Mechanism of ammonothermal synthesis, ball-mill assisted rare earth doping and uniform electrophoretic deposition. Journal of Crystal Growth, 2011, 316, 90-96.	0.7	6
172	Optical properties, luminescence quenching mechanism and radiation hardness of Eu-doped GaN red powder phosphor. Radiation Measurements, 2010, 45, 500-502.	0.7	9
173	Size Reduction and Rare Earth Doping of GaN Powders through Ball Milling. Materials Research Society Symposia Proceedings, 2009, 1202, 226.	0.1	2
174	High pressure luminescence studies of europium doped GaN. Journal of Rare Earths, 2009, 27, 667-670.	2.5	9
175	Purification and mechanical nanosizing of Eu-doped GaN. Journal of Crystal Growth, 2009, 311, 4402-4407.	0.7	14
176	Soft modes at the stacking faults in SiC crystals: First-principles calculations. Physical Review B, 2008, 77, .	1.1	11
177	SiC _{1-x} O ₂ alloys: A possible route to stabilize carbon-based silica-like solids?. Solid State Communications, 2007, 144, 273-276.	0.9	16
178	Surface oxidation for enhancing the hydrogen evolution reaction of metal nitrides: a theoretical study on vanadium nitride. Materials Advances, 0, , .	2.6	4
179	Modelling Core-Shell Plasmonic Nanoparticles as Homogenous Systems: An Effective Refractive Index Approach. SSRN Electronic Journal, 0, , .	0.4	0
180	Simultaneous laser doping and annealing to form lateral p-n junction diode structure on silicon carbide films. Journal of Micromanufacturing, 0, , 251659842110162.	0.6	1