

Unnikrishnan Nair Saraswathy Hareesh

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,605
citations

361413

20
h-index

302126

39
g-index

48
all docs

48
docs citations

48
times ranked

2366
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Development of tubular substrates, silica based membranes and membrane modules for hydrogen separation at high temperature. <i>Journal of Membrane Science</i> , 2005, 267, 8-17. | 8.2 | 142 |
| 2 | Graphene Oxide Sheathed ZIF-8 Microcrystals: Engineered Precursors of Nitrogen-Doped Porous Carbon for Efficient Oxygen Reduction Reaction (ORR) Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29373-29382. | 8.0 | 139 |
| 3 | Photoregenerable, Bifunctional Granules of Carbon-Doped g-C ₃ N ₄ as Adsorptive Photocatalyst for the Efficient Removal of Tetracycline Antibiotic. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1610-1618. | 6.7 | 132 |
| 4 | Co ₃ O ₄ @C ₃ N ₄ nano-heterojunctions for the simultaneous degradation of a mixture of pollutants under solar irradiation. <i>Environmental Science: Nano</i> , 2017, 4, 212-221. | 4.3 | 127 |
| 5 | C ₃ N ₄ anchored ZIF 8 composites: photo-regenerable, high capacity sorbents as adsorptive photocatalysts for the effective removal of tetracycline from water. <i>Catalysis Science and Technology</i> , 2017, 7, 2118-2128. | 4.1 | 114 |
| 6 | Enhanced CO ₂ absorption kinetics in lithium silicate platelets synthesized by a sol-gel approach. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12792. | 10.3 | 87 |
| 7 | Role of precursors on the photophysical properties of carbon nitride and its application for antibiotic degradation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 8609-8618. | 5.3 | 77 |
| 8 | Copyrolysed C ₃ N ₄ @Ag/ZnO Ternary Heterostructure Systems for Enhanced Adsorption and Photocatalytic Degradation of Tetracycline. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5068-5076. | 2.0 | 60 |
| 9 | A facile one pot synthetic approach for C ₃ N ₄ @ZnS composite interfaces as heterojunctions for sunlight-induced multifunctional photocatalytic applications. <i>RSC Advances</i> , 2016, 6, 17800-17809. | 3.6 | 55 |
| 10 | Structural and compositional tuning in g-C ₃ N ₄ based systems for photocatalytic antibiotic degradation. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100148. | 5.2 | 43 |
| 11 | CO ₂ Absorption Studies on Mixed Alkali Orthosilicates Containing Rare-Earth Second-Phase Additives. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5319-5326. | 3.1 | 42 |
| 12 | Morphologically and compositionally tuned lithium silicate nanorods as high-performance carbon dioxide sorbents. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16928-16935. | 10.3 | 42 |
| 13 | Visible-light-driven photocatalytic properties of binary MoS ₂ /ZnS heterostructured nanojunctions synthesized via one-step hydrothermal route. <i>New Journal of Chemistry</i> , 2017, 41, 3432-3442. | 2.8 | 36 |
| 14 | Bifacial Dye-Sensitized Solar Cells with Enhanced Light Scattering and Improved Power Conversion Efficiency under Full Sun and Indoor Light Conditions. <i>ACS Applied Energy Materials</i> , 2020, 3, 12584-12595. | 5.1 | 33 |
| 15 | Antifungal properties of nanosized ZnS particles synthesised by sonochemical precipitation. <i>RSC Advances</i> , 2014, 4, 8439. | 3.6 | 32 |
| 16 | Germanium-incorporated lithium silicate composites as highly efficient low-temperature sorbents for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7913-7921. | 10.3 | 30 |
| 17 | Processing of Aluminum Oxynitride Through Aqueous Colloidal Forming Techniques. <i>Journal of the American Ceramic Society</i> , 2010, 93, 429-435. | 3.8 | 28 |
| 18 | Hydrophobic and Metallophobic Surfaces: Highly Stable Non-wetting Inorganic Surfaces Based on Lanthanum Phosphate Nanorods. <i>Scientific Reports</i> , 2016, 6, 22732. | 3.3 | 28 |

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|----|--|------|-----------|
| 19 | Fine tuning of compact ZnO blocking layers for enhanced photovoltaic performance in ZnO based DSSCs: a detailed insight using I^2 recombination, EIS, OCVD and IMVS techniques. <i>New Journal of Chemistry</i> , 2017, 41, 1007-1016. | 2.8 | 28 |
| 20 | Colloidal Shaping of Alumina Ceramics by Thermally Induced Gelation of Methylcellulose. <i>Journal of the American Ceramic Society</i> , 2011, 94, 749-753. | 3.8 | 23 |
| 21 | Processing of thermally stable 3D hierarchical ZIF-8@ZnO structures and their CO ₂ adsorption studies. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1442-1450. | 6.7 | 21 |
| 22 | One-Pot Hydrothermal Synthesis of Visible-Light-Responsive MoS ₂ /g-CNO Heterostructures for Organic-Pollutant Degradation. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3912-3920. | 2.0 | 20 |
| 23 | An Oriented Nanoporous Membrane Prepared by Pulsed Laser Deposition. <i>Advanced Materials</i> , 2005, 17, 1136-1140. | 21.0 | 19 |
| 24 | Melamine formaldehyde-metal organic gel interpenetrating polymer network derived intrinsic Fe-N-doped porous graphitic carbon electrocatalysts for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2018, 42, 18690-18701. | 2.8 | 19 |
| 25 | Reactive oxygen species (ROS) mediated enhanced anti-candidal activity of ZnO nanocomposites with low inhibitory concentrations. <i>RSC Advances</i> , 2015, 5, 76718-76728. | 3.6 | 18 |
| 26 | Transparent and Hydrophobic MTMS/GPTMS Hybrid Aerogel Monoliths and Coatings by Sol-Gel Method: A Viable Remedy for Oil Spill Cleanup. <i>ChemistrySelect</i> , 2018, 3, 2989-2997. | 1.5 | 16 |
| 27 | Surface modification induced enhanced CO ₂ sorption in cucurbit[6]uril, an organic porous material. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25564-25573. | 2.8 | 15 |
| 28 | ORMOSIL-ZrO ₂ hybrid nanocomposites and coatings on aluminium alloys for corrosion resistance; a sol-gel approach. <i>New Journal of Chemistry</i> , 2018, 42, 10337-10347. | 2.8 | 15 |
| 29 | Template assisted synthesis of Ni,N co-doped porous carbon from Ni incorporated ZIF-8 frameworks for electrocatalytic oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2020, 44, 12343-12354. | 2.8 | 15 |
| 30 | A hybrid sol-gel approach for novel photoactive and hydrophobic titania coatings on aluminium metal surfaces. <i>RSC Advances</i> , 2013, 3, 18062. | 3.6 | 14 |
| 31 | Very low thermal conductivity in lanthanum phosphate-zirconia ceramic nanocomposites processed using a precipitation-peptization synthetic approach. <i>New Journal of Chemistry</i> , 2016, 40, 5333-5337. | 2.8 | 14 |
| 32 | Chitosan Intercalated Metal Organic Gel as a Green Precursor of Fe Entrenched and Fe Distributed N-Doped Mesoporous Graphitic Carbon for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2017, 2, 8762-8770. | 1.5 | 12 |
| 33 | ZnO hierarchical structures as sacrificial inclusions for enhanced performance under full sun and indoor light in bifacial dye sensitized solar cells. <i>Solar Energy</i> , 2021, 226, 214-224. | 6.1 | 12 |
| 34 | Photoluminescent, self-cleaning titanium oxide nanocomposites with multifunctional properties. <i>RSC Advances</i> , 2014, 4, 61727-61735. | 3.6 | 10 |
| 35 | Nanowires of polyaniline festooned silver coated paper electrodes for efficient solid-state symmetrical supercapacitors. <i>RSC Advances</i> , 2018, 8, 33314-33324. | 3.6 | 10 |
| 36 | Redox participation and plasmonic effects of Ag nanoparticles in nickel cobaltite-Ag architectures as battery type electrodes for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2022, 412, 140141. | 5.2 | 9 |

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|----|--|------|-----------|
| 37 | Effect of precursor particle size distribution on the morphology and low wetting behavior of photocatalytic nanocoatings on glass surfaces. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12178. | 10.3 | 8 |
| 38 | Bifunctional lanthanum phosphate substrates as novel adsorbents and biocatalyst supports for perchlorate removal. <i>Journal of Hazardous Materials</i> , 2014, 275, 222-229. | 12.4 | 8 |
| 39 | Flexible Electrochemical Transducer Platform for Neurotransmitters. <i>ACS Omega</i> , 2018, 3, 3489-3500. | 3.5 | 8 |
| 40 | Morphological Ensembles of Na-Doped Porous Carbon Derived from ZIF-8/Fe-Graphene Nanocomposites: Processing and Electrocatalytic Studies. <i>ChemistrySelect</i> , 2018, 3, 8688-8697. | 1.5 | 8 |
| 41 | Optical Properties of Rare-Earth Doped TiO ₂ Nanocomposites and Coatings; A Sol-Gel Strategy towards Multifunctionality. <i>ChemistrySelect</i> , 2016, 1, 2140-2147. | 1.5 | 7 |
| 42 | Morphology control in nickel cobaltite synthesised via solution routes for electrochemical applications. <i>Results in Engineering</i> , 2022, 15, 100536. | 5.1 | 7 |
| 43 | Temperature assisted acid catalyzed peptization of TiO ₂ ; facile sol-gel approach for thermally stable anatase phase. <i>RSC Advances</i> , 2014, 4, 21664-21671. | 3.6 | 6 |
| 44 | Energy revamping of solar panels through titania nanocomposite coatings; influence of aqueous silica precursor. <i>RSC Advances</i> , 2016, 6, 31114-31121. | 3.6 | 5 |
| 45 | Modulating Electrochemical Performance of Interfacially Polymerized, MoS ₂ Decorated Polyaniline Composites for Electrochemical Capacitor Applications. <i>ACS Applied Energy Materials</i> , 2022, 5, 8510-8525. | 5.1 | 5 |
| 46 | Fe ³⁺ stabilized 3D cross-linked glycine-melamine formaldehyde networks as precursor for highly efficient oxygen reduction catalyst in alkaline media. <i>Materials Letters</i> , 2020, 264, 127365. | 2.6 | 4 |
| 47 | Lanthanum Phosphate-Incorporated Organosilane Nanocomposites for Gas-Phase CO ₂ Detection. <i>ACS Applied Nano Materials</i> , 2020, 3, 10040-10048. | 5.0 | 1 |
| 48 | Sol-Gel Lanthanum Phosphate: A Versatile Ceramic Material for Diverse Functional Applications. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2017, , 285-312. | 0.2 | 1 |