

# Rajaram S Mane

## List of Publications by Year in descending order

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| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Room-temperature solution-processed sharp-edged nanoshapes of molybdenum oxide for supercapacitor and electrocatalysis applications. <i>Chemical Engineering Journal</i> , 2022, 433, 133627.             | 12.7 | 13        |
| 2  | Self-assembled $\text{Fe}_2\text{O}_3$ -GO nanocomposites: Studies on physical, magnetic and ammonia sensing properties. <i>Materials Chemistry and Physics</i> , 2022, 278, 125617.                      | 4.0  | 13        |
| 3  | Inherent characteristics of ultra-photosensitive Al/Cu $\text{CeO}_2$ /p-Si metal oxide semiconductor diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1445-1457.                              | 5.5  | 7         |
| 4  | Ammonia gas sensing and magnetic permeability of enhanced surface area and high porosity lanthanum substituted $\text{Co-Zn}$ nano ferrites. <i>Ceramics International</i> , 2022, 48, 15043-15055.       | 4.8  | 21        |
| 5  | Grain and grain boundaries influenced magnetic and dielectric properties of lanthanum-doped copper cadmium ferrites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7636-7647. | 2.2  | 7         |
| 6  | Human urine-derived naturally heteroatom doped highly porous carbonaceous material for gas sensing and supercapacitor applications. <i>Ceramics International</i> , 2022, 48, 28942-28950.                | 4.8  | 4         |
| 7  | Assessment of antibacterial and anti-biofilm effects of zinc ferrite nanoparticles against <i>Klebsiella pneumoniae</i> . <i>Folia Microbiologica</i> , 2022, 67, 747-755.                                | 2.3  | 5         |
| 8  | Effect of Pd-Sensitization on Poisonous Chlorine Gas Detection Ability of $\text{TiO}_2$ : Green Synthesis and Low-Temperature Operation. <i>Sensors</i> , 2022, 22, 4200.                                | 3.8  | 3         |
| 9  | Self-promoted Nickel-chalcogenide Nanostructures: A Novel Electrochemical Supercapacitor Device-design Strategy. <i>Materials Research Bulletin</i> , 2022, 156, 111975.                                  | 5.2  | 8         |
| 10 | Bismuth oxide-doped graphene-oxide nanocomposite electrode for energy storage application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 651, 129690.                   | 4.7  | 16        |
| 11 | Solution-method processed Bi-type nanoelectrode materials for supercapacitor applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110084.                                 | 16.4 | 30        |
| 12 | Energy storage potential of sprayed $\text{MoO}_3$ thin films. <i>New Journal of Chemistry</i> , 2021, 45, 582-589.   | 2.8  | 14        |
| 13 | Tungsten oxides: green and sustainable heterogeneous nanocatalysts for the synthesis of bioactive heterocyclic compounds. <i>Dalton Transactions</i> , 2021, 50, 2032-2041.                               | 3.3  | 4         |
| 14 | Recasting Ni-foam into $\text{NiF}_2$ nanorod arrays via a hydrothermal process for hydrogen evolution reaction application. <i>Dalton Transactions</i> , 2021, 50, 6500-6505.                            | 3.3  | 14        |
| 15 | Ultra-sensitive behaviour of ruthenium-doped nickel ferrite thin film humidity sensor. <i>Journal of Experimental Nanoscience</i> , 2021, 16, 43-50.  | 2.4  | 10        |
| 16 | Hopping Electrochemical Supercapacitor Performance of Ultrathin $\text{BiOCl}$ Petals Grown by a Room-Temperature Soft-Chemical Process. <i>Energy &amp; Fuels</i> , 2021, 35, 6892-6897.                 | 5.1  | 12        |
| 17 | Coconut-Water-Mediated Carbonaceous Electrode: A Promising Eco-Friendly Material for Bifunctional Water Splitting Application. <i>ACS Omega</i> , 2021, 6, 12623-12630.                                   | 3.5  | 7         |
| 18 | Porous metal-graphene oxide nanocomposite sensors with high ammonia detectability. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 401-410.  | 9.4  | 34        |

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|----|---|-----|-----------|
| 19 | Structure-sensitive magnetic properties of nanocrystalline Co <sup>2+</sup> -substituted Ni <sup>2+</sup> -Zn ferrite aluminates. <i>Ceramics International</i> , 2021, 47, 26492-26500.                              | 4.8 | 15        |
| 20 | •Incorporated Coconut Water Derived Carbon for Supercapacitor Application. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 091003.   | 1.8 | 2         |
| 21 | Natural coconut liquid derived nanosheets structured carbonaceous material for high-performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127012.         | 4.7 | 7         |
| 22 | Ultraviolet induced random mutagenesis in <i>Bacillus amyloliquefaciens</i> (MF 510169) for improving biodiesel production. <i>Fuel</i> , 2021, 304, 121380.  | 6.4 | 11        |
| 23 | Hydrangea-type bismuth molybdate as a room-temperature smoke and humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130643.   | 7.8 | 11        |
| 24 | Role of composition and grain size in controlling the structure sensitive magnetic properties of Sm <sup>3+</sup> -substituted nanocrystalline Co-Zn ferrites. <i>Journal of Rare Earths</i> , 2020, 38, 1069-1075.   | 4.8 | 37        |
| 25 | Superparamagnetic cobalt-substituted copper zinc ferrite/aluminate: synthesis, morphological, magnetic and dielectric properties investigation. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 633-642. | 2.4 | 17        |
| 26 | Utilization of pomegranate waste-peel as a novel substrate for biodiesel production by <i>Bacillus cereus</i> (MF908505). <i>Sustainable Energy and Fuels</i> , 2020, 4, 1199-1207.                                   | 4.9 | 9         |
| 27 | Tailoring ammonia gas sensing performance of La <sup>3+</sup> -doped copper cadmium ferrite nanostructures. <i>Solid State Sciences</i> , 2020, 100, 106089.  | 3.2 | 28        |
| 28 | Pristine and palladium-doped perovskite bismuth ferrites and their nitrogen dioxide gas sensor studies. <i>Journal of King Saud University - Science</i> , 2020, 32, 3125-3130.                                       | 3.5 | 18        |
| 29 | Electrochemically grown MnO <sub>2</sub> nanowires for supercapacitor and electrocatalysis applications. <i>New Journal of Chemistry</i> , 2020, 44, 17864-17870.   | 2.8 | 33        |
| 30 | In-vitro antibacterial and anti-biofilm efficiencies of chitosan-encapsulated zinc ferrite nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.                                  | 2.3 | 19        |
| 31 | Ferrites in energy. , 2020, , 173-187.  |     | 2         |
| 32 | Effect of Vd-doping on dielectric, magnetic and gas sensing properties of nickel ferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16728-16736.                        | 2.2 | 11        |
| 33 | Mesoporous Carbon of Carbonized Human Urine Waste: A Valuable Heterogeneous Catalyst for Chromene and Xanthene Derivative Synthesis. <i>Catalysts</i> , 2020, 10, 1369.   | 3.5 | 10        |
| 34 | Antimycobacterial, Antioxidant and Cytotoxicity Activities of Mesoporous Nickel Oxide Nanoparticles for Healthcare. <i>Coatings</i> , 2020, 10, 1242.   | 2.6 | 4         |
| 35 | Room-temperature synthesis and CO <sub>2</sub> -gas sensitivity of bismuth oxide nanosensors. <i>RSC Advances</i> , 2020, 10, 17217-17227.  | 3.6 | 26        |
| 36 | Bismuth-Ferrite-Based Electrochemical Supercapacitors. <i>SpringerBriefs in Materials</i> , 2020, , .   | 0.3 | 7         |

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|----|---|-----|-----------|
| 37 | Electrodeposited spruce leaf-like structured copper bismuth oxide electrode for supercapacitor application. Microelectronic Engineering, 2020, 229, 111359.   | 2.4 | 16        |
| 38 | Self-grown one-dimensional nickel sulfo-selenide nanostructured electrocatalysts for water splitting reactions. International Journal of Hydrogen Energy, 2020, 45, 15904-15914.  | 7.1 | 25        |
| 39 | NiF <sub>2</sub> Nanorod Arrays for Supercapattery Applications. ACS Omega, 2020, 5, 9768-9774.   | 3.5 | 19        |
| 40 | Ferrites for Electrochemical Supercapacitors. , 2020, , 83-122.   |     | 7         |
| 41 | Structural modifications in Co-Zn nanoferrites by Gd substitution triggering to dielectric and gas sensing applications. Journal of Alloys and Compounds, 2020, 844, 156178.  | 5.5 | 30        |
| 42 | Facile synthesis of Bi <sub>2</sub> O <sub>3</sub> @MnO <sub>2</sub> nanocomposite material: A promising electrode for high performance supercapacitors. Solid State Sciences, 2020, 102, 106158.                               | 3.2 | 29        |
| 43 | Facile one-step hydrothermal synthesis and room-temperature NO <sub>2</sub> sensing application of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> sensor. Materials Chemistry and Physics, 2020, 246, 122799.                         | 4.0 | 21        |
| 44 | The role of La <sup>3+</sup> substitution in modification of the magnetic and dielectric properties of the nanocrystalline Co-Zn ferrites. Journal of Magnetism and Magnetic Materials, 2020, 502, 166490.                      | 2.3 | 45        |
| 45 | A reliable chemiresistive sensor of nickel-doped tin oxide (Ni-SnO <sub>2</sub> ) for sensing carbon dioxide gas and humidity. RSC Advances, 2020, 10, 3796-3804.   | 3.6 | 30        |
| 46 | Continuous hydrothermal flow-inspired synthesis and ultra-fast ammonia and humidity room-temperature sensor activities of WO <sub>3</sub> nanobricks. Materials Research Express, 2020, 7, 015076.                              | 1.6 | 20        |
| 47 | Phase controlled synthesis of bifunctional TiO <sub>2</sub> nanocrystallites via $\gamma$ -mannitol for dye-sensitized solar cells and heterogeneous catalysis. RSC Advances, 2020, 10, 14826-14836.                            | 3.6 | 8         |
| 48 | Enhanced humidity sensing properties of Fe-doped CeO <sub>2</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 8815-8824.   | 2.2 | 4         |
| 49 | Room-temperature chemical synthesis of dandelion-type nickel chloride (NiCl <sub>2</sub> @NiF) supercapattery nanostructured materials. Journal of Colloid and Interface Science, 2020, 578, 547-554.                           | 9.4 | 13        |
| 50 | Electrochemical Supercapacitors: History, Types, Designing Processes, Operation Mechanisms, and Advantages and Disadvantages. SpringerBriefs in Materials, 2020, , 11-36.   | 0.3 | 6         |
| 51 | Electrochemical Supercapacitors of Bismuth Ferrites. SpringerBriefs in Materials, 2020, , 69-84.<br>Room temperature LPG sensing properties of tin substituted copper ferrite $\text{Cu}_{1-x}\text{Sn}_x\text{Fe}_2\text{O}_4$ | 0.3 | 2         |
| 52 |   |     |           |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Role of Ruthenium in the Dielectric, Magnetic Properties of Nickel Ferrite (Ru <sup>2+</sup> NiFe <sub>2</sub> O <sub>4</sub> ) Nanoparticles and Their Application in Hydrogen Sensors. ACS Omega, 2019, 4, 12919-12926. | 3.5 | 26        |
| 56 | Synthesis of Bi <sub>2</sub> O <sub>3</sub> -MnO <sub>2</sub> Nanocomposite Electrode for Wide-Potential Window High Performance Supercapacitor. Energies, 2019, 12, 3320.  | 3.1 | 42        |
| 57 | Microwave-assisted hierarchical bismuth oxide worm-like nanostructured films as room-temperature hydrogen gas sensors. Journal of Alloys and Compounds, 2019, 802, 244-251.   | 5.5 | 32        |
| 58 | Facile Chemical Synthesis and Potential Supercapattery Energy Storage Application of Hydrangea-type Bi <sub>2</sub> MoO <sub>6</sub> . ACS Omega, 2019, 4, 11093-11102.   | 3.5 | 57        |
| 59 | Room temperature LPG sensing properties using spray pyrolysis deposited nano-crystalline CdO thin films. Surfaces and Interfaces, 2019, 17, 100339.   | 3.0 | 24        |
| 60 | Advances in Applications of Polymer Nanocomposites. Advances in Materials Science and Engineering, 2019, 2019, 1-2.   | 1.8 | 3         |
| 61 | Ambient temperature operable Bi-Co ferrite NO <sub>2</sub> sensors with high sensitivity and selectivity. Materials Research Bulletin, 2019, 115, 150-158.  | 5.2 | 11        |
| 62 | Sol-gel auto-combustion-mediated cobalt ferrite nanoparticles: a potential material for antimicrobial applications. International Nano Letters, 2019, 9, 141-147.   | 5.0 | 32        |

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|----|--|-----|-----------|
| 73 | Room Temperature Gas Sensing Properties of Sn-Substituted Nickel Ferrite (NiFe <sub>2</sub> O <sub>4</sub> ) Thin Film Sensors Prepared by Chemical Co-Precipitation Method. Journal of Electronic Materials, 2018, 47, 3403-3408. | 2.2 | 13        |
| 74 | High current density cation-exchanged SnO <sub>2</sub> •CdSe/ZnSe and SnO <sub>2</sub> •CdSe/SnSe quantum-dot photoelectrochemical cells. New Journal of Chemistry, 2018, 42, 9028-9036.   | 2.8 | 5         |
| 75 | Hydrothermally grown $\gamma$ -MnO <sub>2</sub> interlocked mesoporous micro-cubes of several nanocrystals as selective and sensitive nitrogen dioxide chemoresistive gas sensors. Applied Surface Science, 2018, 442, 178-184.    | 6.1 | 34        |
| 76 | Fabrication of tin substituted nickel ferrite (Sn-NiFe <sub>2</sub> O <sub>4</sub> ) thin film and its application as opto-electronic humidity sensor. Sensors and Actuators A: Physical, 2018, 272, 267-273.                      | 4.1 | 44        |
| 77 | Performance enhancement of mesoporous TiO <sub>2</sub> -based perovskite solar cells by ZnS ultrathin-interfacial modification layer. Journal of Alloys and Compounds, 2018, 738, 405-414.   | 5.5 | 36        |
| 78 | Sprayed tungsten-doped and undoped bismuth ferrite nanostructured films for reducing and oxidizing gas sensor applications. Sensors and Actuators A: Physical, 2018, 271, 37-43.   | 4.1 | 28        |
| 79 | Study of gamma ray energy absorption and exposure buildup factors for ferrites by geometric progression fitting method. Radiation Effects and Defects in Solids, 2018, 173, 329-338.   | 1.2 | 13        |
| 80 | Bismuth Oxychloride/MXene symmetric supercapacitor with high volumetric energy density. Electrochimica Acta, 2018, 271, 351-360.   | 5.2 | 144       |
| 81 | Enhanced acetone sensing properties of titanium dioxide nanoparticles with a sub-ppm detection limit. Sensors and Actuators B: Chemical, 2018, 255, 1701-1710.   | 7.8 | 110       |
| 82 | Microwave-assisted synthesis and magneto-electrical properties of Mg-Zn ferrimagnetic oxide nanostructures. Physica B: Condensed Matter, 2018, 530, 177-182.   | 2.7 | 34        |
| 83 | Enhanced DSSCs performance of TiO <sub>2</sub> nanostructure by surface passivation layers. Materials Research Bulletin, 2018, 99, 491-495.  | 5.2 | 17        |
| 84 | Hybrid composite polyaniline-nickel hydroxide electrode materials for supercapacitor applications. Heliyon, 2018, 4, e00801.   | 3.2 | 20        |
| 85 | Promoted room-temperature LPG gas sensor activities of graphene oxide@Fe <sub>2</sub> O <sub>3</sub> composite sensor over individuals. Materials Research Express, 2018, 5, 125001.   | 1.6 | 15        |
| 86 | Annealing environment effects on the electrochemical behavior of supercapacitors using Ni foam current collectors. Materials Research Express, 2018, 5, 125004.  | 1.6 | 8         |
| 87 | Sprayed bismuth oxide interconnected nanoplate supercapacitor electrode materials. Applied Surface Science, 2018, 453, 214-219.  | 6.1 | 47        |
| 88 | Metal-free heterogeneous and mesoporous biogenic graphene-oxide nanoparticle-catalyzed synthesis of bioactive benzylpyrazolyl coumarin derivatives. RSC Advances, 2018, 8, 17373-17379.  | 3.6 | 26        |
| 89 | Low-Temperature Ionic Layer Adsorption and Reaction Grown Anatase TiO <sub>2</sub> Nanocrystalline Films for Efficient Perovskite Solar Cell and Gas Sensor Applications. Scientific Reports, 2018, 8, 11016.                      | 3.3 | 36        |
| 90 | Magneto-structural behaviour of Gd doped nanocrystalline Co-Zn ferrites governed by domain wall movement and spin rotations. Ceramics International, 2018, 44, 21675-21683.  | 4.8 | 64        |

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|-----|---|-----|-----------|
| 91  | Seawater electrolyte-mediated high volumetric MXene-based electrochemical symmetric supercapacitors. Dalton Transactions, 2018, 47, 8676-8682.  | 3.3 | 45        |
| 92  | Chemical bath deposition of ZnO films at low pH for high chemoresistivity towards NO <sub>2</sub> gas. Materials Research Express, 2018, 5, 075021.   | 1.6 | 4         |
| 93  | Enhancement in room-temperature ammonia sensor activity of size-reduced cobalt ferrite nanoparticles on $\gamma$ -irradiation. Materials Research Express, 2018, 5, 065035.   | 1.6 | 18        |
| 94  | Room-temperature successive ion transfer chemical synthesis and the efficient acetone gas sensor and electrochemical energy storage applications of Bi <sub>2</sub> O <sub>3</sub> nanostructures. New Journal of Chemistry, 2018, 42, 12530-12538. | 2.8 | 37        |
| 95  | Low-temperature wet chemical synthesis strategy of In <sub>2</sub> O <sub>3</sub> for selective detection of NO <sub>2</sub> down to ppb levels. Journal of Alloys and Compounds, 2018, 735, 2102-2110.   | 5.5 | 26        |
| 96  | Structural, dielectric and enhanced soft magnetic properties of lithium (Li) substituted nickel ferrite ( $\text{Ni}_{1-x}\text{Li}_x\text{Fe}_2\text{O}_4$ ). Journal of Magnetism and Magnetic Materials, 2018, 453, 105-110.                     | 2.3 | 34        |
| 97  | Magnet An Overview of Self-Grown Nanostructured Electrode Materials in Electrochemical Supercapacitors. Journal of the Korean Ceramic Society, 2018, 55, 407-418.   | 2.3 | 19        |
| 98  | Electrochemical supercapacitors of cobalt hydroxide nanoplates grown on conducting cadmium oxide base-electrodes. Arabian Journal of Chemistry, 2017, 10, 515-522.  | 4.9 | 16        |
| 99  | NiO@CuO@Cu bilayered electrode: two-step electrochemical synthesis supercapacitor properties. Journal of Solid State Electrochemistry, 2017, 21, 2609-2614.   | 2.5 | 14        |
| 100 | Nanostructured tin oxide films: Physical synthesis, characterization, and gas sensing properties. Journal of Colloid and Interface Science, 2017, 493, 162-170.   | 9.4 | 49        |
| 101 | Solution-processed rapid synthesis strategy of Co <sub>3</sub> O <sub>4</sub> for the sensitive and selective detection of H <sub>2</sub> S. Sensors and Actuators B: Chemical, 2017, 245, 524-532.   | 7.8 | 71        |
| 102 | Enhanced electrochemical activity of perforated graphene in nickel-oxide-based supercapacitors and fabrication of potential asymmetric supercapacitors. Sustainable Energy and Fuels, 2017, 1, 529-539.   | 4.9 | 16        |
| 103 | Low-temperature chemical synthesis of rutile and anatase mixed phase TiO <sub>2</sub> nanostructures for DSSCs photoanodes. Journal of Alloys and Compounds, 2017, 704, 187-192.  | 5.5 | 17        |
| 104 | Pseudocapacitive performance of a solution-processed $\text{Fe}^{2+}$ -Co(OH) <sub>2</sub> electrode monitored through its surface morphology and area. Dalton Transactions, 2017, 46, 3393-3399.   | 3.3 | 19        |
| 105 | High volumetric energy density annealed-MXene-nickel oxide/MXene asymmetric supercapacitor. RSC Advances, 2017, 7, 11000-11011.   | 3.6 | 166       |
| 106 | Direct successive ionic layer adsorption and reaction (SILAR) synthesis of nickel and cobalt hydroxide composites for supercapacitor applications. Journal of Alloys and Compounds, 2017, 722, 809-817.   | 5.5 | 45        |
| 107 | The structural and magnetic properties of dual phase cobalt ferrite. Scientific Reports, 2017, 7, 2524.   | 3.3 | 93        |
| 108 | Electrochemical deposition of cadmium selenide films and their properties: a review. Journal of Solid State Electrochemistry, 2017, 21, 2517-2530.  | 2.5 | 19        |

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|-----|--|-----|-----------|
| 109 | A binder-free wet chemical synthesis approach to decorate nanoflowers of bismuth oxide on Ni-foam for fabricating laboratory scale potential pencil-type asymmetric supercapacitor device. Dalton Transactions, 2017, 46, 6601-6611. | 3.3 | 118       |
| 110 | Galvanostatically electroplated MnO <sub>2</sub> nanoplate-type electrode for potential electrochemical pseudocapacitor application. Journal of Solid State Electrochemistry, 2017, 21, 1817-1826.                                   | 2.5 | 19        |
| 111 | Low-Temperature Solution-Processed Thiophene-Sulfur-Doped Planar ZnO Nanorods as Electron-Transporting Layers for Enhanced Performance of Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 3831-3841.               | 8.0 | 8         |
| 112 | Gold sensitized sprayed SnO <sub>2</sub> nanostructured film for enhanced LPG sensing. Journal of Analytical and Applied Pyrolysis, 2017, 124, 362-368.  | 5.5 | 32        |
| 113 | Flexible camphor sulfonic acid-doped PAni/Fe <sub>2</sub> O <sub>3</sub> nanocomposite films and their room temperature ammonia sensing activity. Materials Chemistry and Physics, 2017, 189, 191-197.                               | 4.0 | 45        |
| 114 | Non-magnetic thin films for magnetic field position sensor. Sensors and Actuators A: Physical, 2017, 254, 89-94.   | 4.1 | 15        |
| 115 | Large, Linear, and Tunable Positive Magnetoresistance of Mechanically Stable Graphene Foam—Toward High-Performance Magnetic Field Sensors. ACS Applied Materials & Interfaces, 2017, 9, 1891-1898.                                   | 8.0 | 27        |
| 116 | Cation distribution, magnetic properties and cubic-perovskite phase transition in bismuth-doped nickel ferrite. Solid State Sciences, 2017, 74, 88-94.   | 3.2 | 28        |
| 117 | Irreconcilable room temperature magnetotransport properties of polypyrrole nanoparticles and nanorods. Journal Physics D: Applied Physics, 2017, 50, 365002.   | 2.8 | 8         |
| 118 | Ethanol gas sensing properties of hydrothermally grown MnO <sub>2</sub> nanorods. Journal of Alloys and Compounds, 2017, 727, 362-369.   | 5.5 | 54        |
| 119 | A simple wet-chemical synthesis, reaction mechanism, and charge storage application of cobalt oxide electrodes of different morphologies. Electrochimica Acta, 2017, 253, 151-162.   | 5.2 | 22        |
| 120 | Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. ACS Applied Materials & Interfaces, 2017, 9, 43051-43060.   | 8.0 | 32        |
| 121 | Solution-processed nickel oxide films and their liquefied petroleum gas sensing activity. Journal of Alloys and Compounds, 2017, 695, 2008-2015.   | 5.5 | 41        |
| 122 | Solid-state synthesis strategy of ZnO nanoparticles for the rapid detection of hazardous Cl <sub>2</sub> . Sensors and Actuators B: Chemical, 2017, 238, 1102-1110.  | 7.8 | 71        |
| 123 | Green synthesis and dye-sensitized solar cell application of rutile and anatase TiO <sub>2</sub> nanorods. Journal of Solid State Electrochemistry, 2017, 21, 2713-2718.   | 2.5 | 15        |
| 124 | Electrochemical synthesis and potential electrochemical energy storage performance of nodule-type polyaniline. Journal of Colloid and Interface Science, 2017, 487, 458-464.   | 9.4 | 28        |
| 125 | Tailoring the morphology followed by the electrochemical performance of NiMn-LDH nanosheet arrays through controlled Co-doping for high-energy and power asymmetric supercapacitors. Dalton Transactions, 2017, 46, 12876-12883.     | 3.3 | 38        |
| 126 | Sprayed zinc oxide films: Ultra-violet light-induced reversible surface wettability and platinum-sensitization-assisted improved liquefied petroleum gas response. Journal of Colloid and Interface Science, 2016, 480, 109-117.     | 9.4 | 33        |



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|-----|---|------|-----------|
| 127 | Hexamethylenetetramine-mediated TiO <sub>2</sub> films: Facile chemical synthesis strategy and their use in nitrogen dioxide detection. <i>Materials Letters</i> , 2016, 173, 9-12.                                 | 2.6  | 13        |
| 128 | Protective role of biogenic selenium nanoparticles in immunological and oxidative stress generated by enrofloxacin in broiler chicken. <i>Dalton Transactions</i> , 2016, 45, 8845-8853.                            | 3.3  | 30        |
| 129 | An eco-friendly physicochemical-based rapid synthesis of selenium nanoparticles. <i>RSC Advances</i> , 2016, 6, 48420-48426.  | 3.6  | 14        |
| 130 | Pristine and cadmium-doped zinc oxide: chemical synthesis and characterizations. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12335-12339.   | 2.2  | 14        |
| 131 | Synthesis of nickel sulfide as a promising electrode material for pseudocapacitor application. <i>RSC Advances</i> , 2016, 6, 112589-112593.  | 3.6  | 30        |
| 132 | Structural, morphological and electrochemical supercapacitive properties of sprayed manganese ferrite thin film electrode. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 122, 224-229.                 | 5.5  | 35        |
| 133 | D-sorbitol-induced phase control of TiO <sub>2</sub> nanoparticles and its application for dye-sensitized solar cells. <i>Scientific Reports</i> , 2016, 6, 20103.  | 3.3  | 93        |
| 134 | Polyaniline-cobalt hydroxide hybrid nanostructures and their supercapacitor studies. <i>Materials Chemistry and Physics</i> , 2016, 180, 226-236.   | 4.0  | 35        |
| 135 | Co-functionalized organic/inorganic hybrid ZnO nanorods as electron transporting layers for inverted organic solar cells. <i>Nanoscale</i> , 2016, 8, 5024-5036.  | 5.6  | 22        |
| 136 | Facile Synthesis of Microsphere Copper Cobalt Carbonate Hydroxides Electrode for Asymmetric Supercapacitor. <i>Electrochimica Acta</i> , 2016, 188, 898-908.  | 5.2  | 126       |
| 137 | Nanomorphology-dependent pseudocapacitive properties of NiO electrodes engineered through a controlled potentiodynamic electrodeposition process. <i>RSC Advances</i> , 2016, 6, 24478-24483.                       | 3.6  | 34        |
| 138 | Photosensitization of ZnO nanowire-based electrodes using one-step hydrothermally synthesized CdSe/CdS (core/shell) sensitizer. <i>Solar Energy</i> , 2016, 125, 125-134.   | 6.1  | 15        |
| 139 | Mixed-phase bismuth ferrite nanoflake electrodes for supercapacitor application. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 511-519.   | 3.1  | 92        |
| 140 | Revisiting Metal Sulfide Semiconductors: A Solution-Based General Protocol for Thin Film Formation, Hall Effect Measurement, and Application Prospects. <i>Advanced Functional Materials</i> , 2015, 25, 5739-5747. | 14.9 | 70        |
| 141 | High-Performance Platinum-Free Dye-Sensitized Solar Cells with Molybdenum Disulfide Films as Counter Electrodes. <i>ChemPhysChem</i> , 2015, 16, 3959-3965.   | 2.1  | 27        |
| 142 | Influence of Bi <sup>3+</sup> -doping on the magnetic and Mössbauer properties of spinel cobalt ferrite. <i>Dalton Transactions</i> , 2015, 44, 6384-6390.  | 3.3  | 108       |
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