

Rajan Jose

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258
papers

11,280
citations

57
h-index

99
g-index

275
ext. papers

13,011
ext. citations

6
avg, IF

6.8
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 258 | Metal Oxides for Dye-Sensitized Solar Cells. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 289-301 | 3.8 | 505 |
| 257 | Graphene Polymer Nanofiber Membrane for Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2010 , 20, 782-791 | 15.6 | 382 |
| 256 | Electrolyte selection for supercapacitive devices: a critical review. <i>Nanoscale Advances</i> , 2019 , 1, 3807-3835 | 35.1 | 337 |
| 255 | A perspective on the production of dye-sensitized solar modules. <i>Energy and Environmental Science</i> , 2014 , 7, 3952-3981 | 35.4 | 325 |
| 254 | Nanostructured ceramics by electrospinning. <i>Journal of Applied Physics</i> , 2007 , 102, 111101 | 2.5 | 311 |
| 253 | Nanostructured Nb ₂ O ₅ Polymorphs by Electrospinning for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 664-671 | 3.8 | 294 |
| 252 | Advances in hole transport materials engineering for stable and efficient perovskite solar cells. <i>Nano Energy</i> , 2017 , 34, 271-305 | 17.1 | 278 |
| 251 | Progress, challenges and perspectives in flexible perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 3007-3035 | 35.4 | 278 |
| 250 | High surface area activated carbon from rice husk as a high performance supercapacitor electrode. <i>Electrochimica Acta</i> , 2016 , 192, 110-119 | 6.7 | 277 |
| 249 | Controlled electron injection and transport at materials interfaces in dye sensitized solar cells. <i>Materials Science and Engineering Reports</i> , 2009 , 63, 81-99 | 30.9 | 261 |
| 248 | Characterization of MgCo ₂ O ₄ as an electrode for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 161, 312-321 | 6.7 | 231 |
| 247 | Interfaces in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700623 | 21.8 | 225 |
| 246 | Spray deposition of electrospun TiO ₂ nanorods for dye-sensitized solar cell. <i>Nanotechnology</i> , 2007 , 18, 365709 | 3.4 | 203 |
| 245 | Science and engineering of electrospun nanofibers for advances in clean energy, water filtration, and regenerative medicine. <i>Journal of Materials Science</i> , 2010 , 45, 6283-6312 | 4.3 | 188 |
| 244 | Nb ₂ O ₅ Photoelectrodes for Dye-Sensitized Solar Cells: Choice of the Polymorph. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21795-21800 | 3.8 | 186 |
| 243 | Quantum Dot anti-CD Conjugates: Are They Potential Photosensitizers or Potentiators of Classical Photosensitizing Agents in Photodynamic Therapy of Cancer?. <i>Nano Letters</i> , 2004 , 4, 1567-1573 | 11.5 | 174 |
| 242 | Structural and Optical Properties of Electrospun TiO ₂ Nanofibers. <i>Chemistry of Materials</i> , 2007 , 19, 6536-6542 | 6.5 | 161 |

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| 241 | Vertical TiO ₂ Nanorods as a Medium for Stable and High-Efficiency Perovskite Solar Modules. <i>ACS Nano</i> , 2015 , 9, 8420-9 | 16.7 | 158 |
| 240 | Structure-property correlation of CdSe clusters using experimental results and first-principles DFT calculations. <i>Journal of the American Chemical Society</i> , 2006 , 128, 629-36 | 16.4 | 146 |
| 239 | Superior supercapacitive performance in electrospun copper oxide nanowire electrodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6578-6588 | 13 | 144 |
| 238 | Improved Electron Diffusion Coefficient in Electrospun TiO ₂ Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21538-21542 | 3.8 | 142 |
| 237 | Preparation and electrochemical studies of electrospun TiO ₂ nanofibers and molten salt method nanoparticles. <i>Electrochimica Acta</i> , 2010 , 55, 3109-3117 | 6.7 | 124 |
| 236 | High performance dye-sensitized solar cells with record open circuit voltage using tin oxide nanoflowers developed by electrospinning. <i>Energy and Environmental Science</i> , 2012 , 5, 5401-5407 | 35.4 | 123 |
| 235 | A simple recipe for an efficient TiO ₂ nanofiber-based dye-sensitized solar cell. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 39-45 | 9.3 | 120 |
| 234 | High performance supercapacitor electrodes from electrospun nickel oxide nanowires. <i>Journal of Alloys and Compounds</i> , 2014 , 610, 143-150 | 5.7 | 115 |
| 233 | Electrochemical properties of carbon from oil palm kernel shell for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 174, 78-86 | 6.7 | 111 |
| 232 | Electrospun polyaniline nanofibers web electrodes for supercapacitors. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 1660-1668 | 2.9 | 111 |
| 231 | High performance MnO ₂ nanoflower electrode and the relationship between solvated ion size and specific capacitance in highly conductive electrolytes. <i>Materials Research Bulletin</i> , 2014 , 57, 221-230 | 5.1 | 109 |
| 230 | Controlled synthesis and application of ZnO nanoparticles, nanorods and nanospheres in dye-sensitized solar cells. <i>Nanotechnology</i> , 2009 , 20, 045604 | 3.4 | 107 |
| 229 | Electron transport in electrospun TiO ₂ nanofiber dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2009 , 95, 012101 | 3.4 | 105 |
| 228 | High energy and power density asymmetric supercapacitors using electrospun cobalt oxide nanowire anode. <i>Journal of Power Sources</i> , 2014 , 270, 526-535 | 8.9 | 97 |
| 227 | Role of morphology and crystallinity of nanorod and planar electron transport layers on the performance and long term durability of perovskite solar cells. <i>Journal of Power Sources</i> , 2015 , 283, 61-67 | 8.9 | 96 |
| 226 | Tin oxide as a photoanode for dye-sensitised solar cells: Current progress and future challenges. <i>Journal of Power Sources</i> , 2015 , 293, 1039-1052 | 8.9 | 87 |
| 225 | Electrospun Ceramic Nanofiber Mats Today: Synthesis, Properties, and Applications. <i>Materials</i> , 2017 , 10, | 3.5 | 86 |
| 224 | Critical insight: challenges and requirements of fibre electrodes for wearable electrochemical energy storage. <i>Energy and Environmental Science</i> , 2019 , 12, 2148-2160 | 35.4 | 85 |

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| 223 | Magnetic Iron Oxide Nanoparticles: Chemical Synthesis and Applications Review. <i>Current Nanoscience</i> , 2013 , 9, 561-575 | 1.4 | 83 |
| 222 | Materials 4.0: Materials big data enabled materials discovery. <i>Applied Materials Today</i> , 2018 , 10, 127-1326.6 | | 81 |
| 221 | Effect of biofilm formation on the performance of microbial fuel cell for the treatment of palm oil mill effluent. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 15-24 | 3.7 | 74 |
| 220 | Studies on the lithium ion diffusion coefficients of electrospun Nb ₂ O ₅ nanostructures using galvanostatic intermittent titration and electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2014 , 128, 198-202 | 6.7 | 73 |
| 219 | Uncoated, broad fluorescent, and size-homogeneous CdSe quantum dots for bioanalyses. <i>Analytical Chemistry</i> , 2006 , 78, 321-30 | 7.8 | 73 |
| 218 | High performance asymmetric supercapacitors using electrospun copper oxide nanowires anode. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 22-30 | 5.7 | 71 |
| 217 | Structural and Electrical Properties of Nb-Doped Anatase TiO ₂ Nanowires by Electrospinning. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 4096-4102 | 3.8 | 71 |
| 216 | One-Dimensional Assembly of Conductive and Capacitive Metal Oxide Electrodes for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10730-10742 | 8.5 | 69 |
| 215 | Tandem perovskite solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 84, 89-110 | 16.2 | 69 |
| 214 | Relationship between the molecular orbital structure of the dyes and photocurrent density in the dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2008 , 93, 023125 | 3.4 | 69 |
| 213 | Thermal and optical properties of TeO ₂ BaOBrONb ₂ O ₅ based glasses: New broadband Raman gain media. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5564-5571 | 3.9 | 69 |
| 212 | Electrospun TiO ₂ nanorods assembly sensitized by CdS quantum dots: a low-cost photovoltaic material. <i>Energy and Environmental Science</i> , 2010 , 3, 2010 | 35.4 | 68 |
| 211 | Characterization and sintering of BaZrO ₃ nanoparticles synthesized through a single-step combustion process. <i>Journal of Alloys and Compounds</i> , 2008 , 458, 528-531 | 5.7 | 68 |
| 210 | Tungsten doped titanium dioxide nanowires for high efficiency dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7448-54 | 3.6 | 67 |
| 209 | Advances in stability of perovskite solar cells. <i>Organic Electronics</i> , 2020 , 78, 105590 | 3.5 | 67 |
| 208 | Continuous nanobelts of nickel oxide/balt oxide hybrid with improved capacitive charge storage properties. <i>Materials and Design</i> , 2017 , 122, 376-384 | 8.1 | 64 |
| 207 | Conversion efficiency versus sensitizer for electrospun TiO ₂ nanorod electrodes in dye-sensitized solar cells. <i>Nanotechnology</i> , 2008 , 19, 424004 | 3.4 | 64 |
| 206 | Electrochemical performance studies of MnO ₂ nanoflowers recovered from spent battery. <i>Materials Research Bulletin</i> , 2014 , 60, 5-9 | 5.1 | 62 |

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| 205 | Intense ultraviolet emission from Tb ³⁺ and Yb ³⁺ codoped glass ceramic containing CaF ₂ nanocrystals. <i>Applied Physics Letters</i> , 2007 , 90, 131116 | 3.4 | 62 |
| 204 | Humidity versus photo-stability of metal halide perovskite films in a polymer matrix. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21629-39 | 3.6 | 62 |
| 203 | Multiporous nanofibers of SnO ₂ by electrospinning for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17427-17434 | 13 | 61 |
| 202 | Pseudocapacitive Charge Storage in Single-Step-Synthesized CoO/MnO ₂ /MnCo ₂ O ₄ Hybrid Nanowires in Aqueous Alkaline Electrolytes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21171-21183 | 3.8 | 58 |
| 201 | Enhancing the stability of polymer solar cells by improving the conductivity of the nanostructured MoO ₃ hole-transport layer. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6831-41 | 3.6 | 55 |
| 200 | Fabrication of quantum dot-lectin conjugates as novel fluorescent probes for microscopic and flow cytometric identification of leukemia cells from normal lymphocytes. <i>Chemical Communications</i> , 2005 , 1980-2 | 5.8 | 55 |
| 199 | Metal oxide semiconducting interfacial layers for photovoltaic and photocatalytic applications. <i>Materials for Renewable and Sustainable Energy</i> , 2015 , 4, 1 | 4.7 | 54 |
| 198 | Conversion of Oil Palm Kernel Shell Biomass to Activated Carbon for Supercapacitor Electrode Application. <i>Waste and Biomass Valorization</i> , 2019 , 10, 1731-1740 | 3.2 | 53 |
| 197 | Synthesis and characterization of MnCo ₂ O ₄ cuboidal microcrystals as a high performance pseudocapacitor electrode. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 707-713 | 5.7 | 50 |
| 196 | Electrochemical properties of bare and Ta-substituted Nb ₂ O ₅ nanostructures. <i>Electrochimica Acta</i> , 2011 , 56, 1518-1528 | 6.7 | 50 |
| 195 | Synergistic combination of electronic and electrical properties of SnO ₂ and TiO ₂ in a single SnO ₂ -TiO ₂ composite nanofiber for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018 , 263, 524-532 | 6.7 | 49 |
| 194 | Enhancement of the photoluminescence of CdSe quantum dots during long-term UV-irradiation: privilege or fault in life science research?. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2004 , 75, 99-105 | 6.7 | 49 |
| 193 | Critical influence of reduced graphene oxide mediated binding of M (M = Mg, Mn) with Co ions, chemical stability and charge storability enhancements of spinal-type hierarchical MCo ₂ O ₄ nanostructures. <i>Electrochimica Acta</i> , 2017 , 243, 119-128 | 6.7 | 47 |
| 192 | Hydrothermal syntheses of tungsten doped TiO ₂ and TiO ₂ /WO ₃ composite using metal oxide precursors for charge storage applications. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 703-710 | 5.7 | 47 |
| 191 | Environment-Modulated Crystallization of CuO and CuO Nanowires by Electrospinning and Their Charge Storage Properties. <i>Langmuir</i> , 2018 , 34, 1873-1882 | 4 | 46 |
| 190 | Fabrication and characterization of dye-sensitized solar cells from rutile nanofibers and nanorods. <i>Energy</i> , 2011 , 36, 627-632 | 7.9 | 46 |
| 189 | White-light-emitting CdSe quantum dots synthesized at room temperature. <i>Applied Physics Letters</i> , 2006 , 89, 013115 | 3.4 | 43 |
| 188 | Highly porous TiO ₂ nanofibers by humid-electrospinning with enhanced photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 257-265 | 5.7 | 42 |

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| 187 | Large scale synthesis of binary composite nanowires in the Mn ₂ O ₃ -SnO ₂ system with improved charge storage capabilities. <i>Chemical Engineering Journal</i> , 2017 , 327, 962-972 | 14.7 | 41 |
| 186 | Synthesis and characterization of nanocrystalline strontium titanate through a modified combustion method and its sintering and dielectric properties. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 711-715 | 5.7 | 41 |
| 185 | Synthesis and electrochemical evaluation of the PANI/EMnO ₂ electrode for high performing asymmetric supercapacitors. <i>New Journal of Chemistry</i> , 2017 , 41, 6574-6584 | 3.6 | 40 |
| 184 | Improving the symmetry of asymmetric supercapacitors using battery-type positive electrodes and activated carbon negative electrodes by mass and charge balance. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 805, 126-132 | 4.1 | 39 |
| 183 | Facile fabrication of thin metal oxide films on porous carbon for high density charge storage. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 567-577 | 9.3 | 39 |
| 182 | Effect of processing parameters on the charge storage properties of MgCo ₂ O ₄ electrodes. <i>Ceramics International</i> , 2017 , 43, 12270-12279 | 5.1 | 38 |
| 181 | Void Space Control in Porous Carbon for High-Density Supercapacitive Charge Storage. <i>Energy & Fuels</i> , 2020 , 34, 5072-5083 | 4.1 | 38 |
| 180 | Layered sodium titanate nanostructures as a new electrode for high energy density supercapacitors. <i>Electrochimica Acta</i> , 2013 , 113, 141-148 | 6.7 | 38 |
| 179 | Random nanowires of nickel doped TiO ₂ with high surface area and electron mobility for high efficiency dye-sensitized solar cells. <i>Dalton Transactions</i> , 2013 , 42, 1024-32 | 4.3 | 38 |
| 178 | Charge Transport through Electrospun SnO ₂ Nanoflowers and Nanofibers: Role of Surface Trap Density on Electron Transport Dynamics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22112-22120 | 3.8 | 38 |
| 177 | Aminopyrene functionalized reduced graphene oxide as a supercapacitor electrode. <i>RSC Advances</i> , 2015 , 5, 38111-38116 | 3.7 | 37 |
| 176 | SnO ₂ /TiO ₂ hybrid nanofibers for efficient dye-sensitized solar cells. <i>Solar Energy</i> , 2016 , 132, 395-404 | 6.8 | 37 |
| 175 | Higher nonlinear indices, Raman gain coefficients, and bandwidths in the TeO ₂ /Nb ₂ O ₅ /MoO ₃ quaternary glass system. <i>Applied Physics Letters</i> , 2007 , 90, 211104 | 3.4 | 36 |
| 174 | Research Update: Behind the high efficiency of hybrid perovskite solar cells. <i>APL Materials</i> , 2016 , 4, 091505 | 5.7 | 36 |
| 173 | Studies on spinel cobaltites, MCo ₂ O ₄ (M = Mn, Zn, Fe, Ni and Co) and their functional properties. <i>Ceramics International</i> , 2018 , 44, 4630-4639 | 5.1 | 36 |
| 172 | Characterization, sintering and dielectric properties of nanocrystalline barium titanate synthesized through a modified combustion process. <i>Materials Characterization</i> , 2009 , 60, 322-326 | 3.9 | 35 |
| 171 | Stimulated Raman scattering in tellurite glasses as a potential system for slow light generation. <i>Journal of Applied Physics</i> , 2007 , 101, 093109 | 2.5 | 34 |
| 170 | Tin oxide as an emerging electron transport medium in perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 102-117 | 6.4 | 32 |

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| 169 | Doubling of electrochemical parameters via the pre-intercalation of Na ⁺ in layered MnO ₂ nanoflakes compared to β-MnO ₂ nanorods. <i>RSC Advances</i> , 2015 , 5, 9667-9673 | 3.7 | 32 |
| 168 | Ramification of zinc oxide doped hydroxyapatite biocomposites for the mineralization of osteoblasts. <i>Materials Science and Engineering C</i> , 2019 , 96, 337-346 | 8.3 | 32 |
| 167 | A glassy carbon electrode modified with SnO ₂ nanofibers, polyaniline and hemoglobin for improved amperometric sensing of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2017 , 184, 4443-4450 | 5.8 | 30 |
| 166 | Pseudocapacitive Charge Storage in Thin Nanobelts. <i>Advanced Fiber Materials</i> , 2019 , 1, 205-213 | 10.9 | 29 |
| 165 | Electrospun ZnO nanowire plantations in the electron transport layer for high-efficiency inverted organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9396-404 | 9.5 | 29 |
| 164 | Standardization of photoelectrode area of dye-sensitized solar cells. <i>RSC Advances</i> , 2013 , 3, 2683 | 3.7 | 29 |
| 163 | Synthesis of strontium zirconate as nanocrystals through a single step combustion process. <i>Materials Letters</i> , 2007 , 61, 1592-1595 | 3.3 | 29 |
| 162 | Crystallization kinetics and spectroscopic investigations on Tb ³⁺ and Yb ³⁺ codoped glass ceramics containing CaF ₂ nanocrystals. <i>Journal of Applied Physics</i> , 2007 , 102, 093506 | 2.5 | 29 |
| 161 | Raman scattering characteristics of the TBSN-based tellurite glass system as a new Raman gain medium. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 1517 | 1.7 | 29 |
| 160 | Synthesis and Lithium Storage Properties of Zn, Co and Mg doped SnO ₂ Nano Materials. <i>Electrochimica Acta</i> , 2017 , 247, 358-370 | 6.7 | 28 |
| 159 | Near band-edge electron diffusion in electrospun Nb-doped anatase TiO ₂ nanofibers probed by electrochemical impedance spectroscopy. <i>Applied Physics Letters</i> , 2011 , 98, 152106 | 3.4 | 26 |
| 158 | Application of polymerized multiporous nanofiber of SnO for designing a bienzyme glucose biosensor based on HRP/GOx. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 1028-1034 | 7.9 | 26 |
| 157 | In situ encapsulation of tin oxide and cobalt oxide composite in porous carbon for high-performance energy storage applications. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 817, 217-225 | 4.1 | 25 |
| 156 | Simultaneous improvements in power conversion efficiency and operational stability of polymer solar cells by interfacial engineering. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19057-64 | 3.6 | 25 |
| 155 | Physical reduction of graphene oxide for supercapacitive charge storage. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153636 | 5.7 | 25 |
| 154 | Characteristics of ZnOβSnO ₂ Composite Nanofibers as a Photoanode in Dye-Sensitized Solar Cells. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 643-653 | 3.9 | 25 |
| 153 | Large scale synthesis of 3D nanoflowers of SnO ₂ /TiO ₂ composite via electrospinning with synergistic properties. <i>Materials Letters</i> , 2018 , 225, 117-121 | 3.3 | 24 |
| 152 | Energy storage in metal cobaltite electrodes: Opportunities & challenges in magnesium cobalt oxide. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110798 | 16.2 | 24 |

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| 151 | Solid state perovskite solar modules by vacuum-vapor assisted sequential deposition on Nd:YVO ₄ laser patterned rutile TiO ₂ nanorods. <i>Nanotechnology</i> , 2015 , 26, 494002 | 3.4 | 23 |
| 150 | Crystal structure and dielectric properties of a new complex perovskite oxide Ba ₂ LaSbO ₆ . <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 2041-2047 | 2.6 | 22 |
| 149 | Phosphate Polyanion Materials as High-Voltage Lithium-Ion Battery Cathode: A Review. <i>Energy & Fuels</i> , 2021 , 35, 10428-10450 | 4.1 | 22 |
| 148 | Direct Growth of Triple Cation Metal-Organic Framework on a Metal Substrate for Electrochemical Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 665-674 | 3.9 | 22 |
| 147 | LATP ionic conductor and in-situ graphene hybrid-layer coating on LiFePO ₄ cathode material at different temperatures. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 800-811 | 5.7 | 21 |
| 146 | On the missing links in quantum dot solar cells: a DFT study on fluorophore oxidation and reduction processes in sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16275-85 | 3.6 | 20 |
| 145 | Charge transport in zirconium doped anatase nanowires dye-sensitized solar cells: Trade-off between lattice strain and photovoltaic parameters. <i>Applied Physics Letters</i> , 2014 , 105, 153901 | 3.4 | 20 |
| 144 | Continuous tubular nanofibers of vanadium pentoxide by electrospinning for energy storage devices. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1 | 2.3 | 20 |
| 143 | Enhanced Raman gain coefficients and bandwidths in P ₂ O ₅ and WO ₃ added tellurite glasses for Raman gain media. <i>Applied Physics Letters</i> , 2006 , 89, 121122 | 3.4 | 19 |
| 142 | Structural and dielectric properties of Ba ₂ YbTaO ₆ , Ba ₂ YSbO ₆ and Ba ₂ EuZrO _{5.5} . <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 435, 53-58 | 1.3 | 19 |
| 141 | Polymer versus Cation of Gel Polymer Electrolytes in the Charge Storage of Asymmetric Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 654-664 | 3.9 | 19 |
| 140 | Charge storage capability of tunnel MnO ₂ and alkaline layered Na-MnO ₂ as anode material for aqueous asymmetry supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 799, 538-546 | 4.1 | 18 |
| 139 | Direct pyrolysis and ultrasound assisted preparation of N, S co-doped graphene/FeC nanocomposite as an efficient electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Ultrasonics Sonochemistry</i> , 2020 , 66, 105111 | 8.9 | 18 |
| 138 | Decanter cake as a feedstock for biodiesel production: A first report. <i>Energy Conversion and Management</i> , 2013 , 76, 527-532 | 10.6 | 18 |
| 137 | Design of Ultimate Gain-Flattened O-, E-, and S ⁺⁺ C ⁺⁺ L Ultrabroadband Fiber Amplifiers Using a New Fiber Raman Gain Medium. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2727-2738 | 4 | 18 |
| 136 | Role of free cadmium and selenium ions in the potential mechanism for the enhancement of photoluminescence of CdSe quantum dots under ultraviolet irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 887-94 | 1.3 | 18 |
| 135 | A new combustion process for nanosized YBa ₂ ZrO _{5.5} powders. <i>Scripta Materialia</i> , 1999 , 11, 623-629 | | 18 |
| 134 | Supercapacitor Electrodes Delivering High Energy and Power Densities. <i>Materials Today: Proceedings</i> , 2016 , 3, S48-S56 | 1.4 | 18 |

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| 133 | Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26661-26692 | 13 | 18 |
| 132 | Electrospun 3D composite nano-flowers for high performance triple-cation perovskite solar cells. <i>Electrochimica Acta</i> , 2018 , 289, 459-473 | 6.7 | 17 |
| 131 | Perovskite Solar Fibers: Current Status, Issues and Challenges. <i>Advanced Fiber Materials</i> , 2019 , 1, 101-125 | 5.9 | 16 |
| 130 | Activated carbon with graphitic content from stinky bean seedpod biowaste as supercapacitive electrode material. <i>Ionics</i> , 2020 , 26, 4081-4093 | 2.7 | 16 |
| 129 | Modification of capacitive charge storage of TiO ₂ with nickel doping. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 328-334 | 5.7 | 16 |
| 128 | Flexible Solar Yarns with 15.7% Power Conversion Efficiency, Based on Electrospun Perovskite Composite Nanofibers. <i>Solar Rrl</i> , 2020 , 4, 2000269 | 7.1 | 15 |
| 127 | Hierarchical Mo ₉ Se ₁₁ nanoneedles on nanosheet with enhanced electrochemical properties as a battery-type electrode for asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2016 , 673, 390-398 | 5.7 | 15 |
| 126 | Charge transport through split photoelectrodes in dye-sensitized solar cells. <i>Journal of Applied Physics</i> , 2014 , 115, 164509 | 2.5 | 15 |
| 125 | Improved supercapacitive charge storage in electrospun niobium doped titania nanowires. <i>RSC Advances</i> , 2015 , 5, 50087-50097 | 3.7 | 15 |
| 124 | Mesoporous titania-vertical nanorod films with interfacial engineering for high performance dye-sensitized solar cells. <i>Nanotechnology</i> , 2015 , 26, 105401 | 3.4 | 15 |
| 123 | Synthesis of CdTe quantum dots using a heterogeneous process at low temperature and their optical and structural properties. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1833-1838 | 2.6 | 15 |
| 122 | Thermal expansion characteristics of a titanium modified austenitic stainless steel: measurement by high-temperature X-ray diffraction and modelling using Grüneisen formalism. <i>Journal of Nuclear Materials</i> , 2003 , 317, 54-61 | 3.3 | 15 |
| 121 | Fabrication of Superconducting YBCO Nanoparticles by Electrospinning. <i>Procedia Engineering</i> , 2016 , 148, 243-248 | | 15 |
| 120 | Fiber-Shaped Electronic Devices. <i>Advanced Energy Materials</i> , 2021 , 11, 2101443 | 21.8 | 15 |
| 119 | Enhanced direct electron transfer of redox protein based on multiporous SnO nanofiber-carbon nanotube nanocomposite and its application in biosensing. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 1071-1076 | 7.9 | 14 |
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