# Joydeep Dutta

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 263 papers | 10,683 citations | 54 h-index | 96 g-index |
| 284 ext. papers | 12,363 ext. citations | 5 avg, IF | 6.94 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 263 | Sustainable extraction of hazardous metals from crystal glass waste using biodegradable chelating agents. *Journal of Material Cycles and Waste Management*, **2022**, 24, 692 | 3.4 | |
| 262 | Prediction of heterogeneous Fenton process in treatment of melanoidin-containing wastewater using data-based models.. *Journal of Environmental Management*, **2022**, 307, 114518 | 7.9 | 3 |
| 261 | Comparative investigation of structure and operating parameters on the performance and reaction dynamic of CO conversion on silica aerogel and fumed-silica-supported Pd catalysts. *Surfaces and Interfaces*, **2022**, 29, 101776 | 4.1 | 0 |
| 260 | Predicting capacitive deionization processes using an electrolytic-capacitor (ELC) model: 2D dynamics, leakages, and multi-ion solutions. *Desalination*, **2022**, 525, 115493 | 10.3 | 2 |
| 259 | Nanomaterials in Food Packaging **2022**, 336-367 | | 0 |
| 258 | Biopolymers **2022**, 29-65 | | 0 |
| 257 | An Overview of Natural Biopolymers in Food Packaging **2022**, 1-28 | | 0 |
| 256 | Edible Films and Coatings **2022**, 445-475 | | 0 |
| 255 | Silver and Zinc Oxide Nanoparticles in Films and Coatings **2022**, 368-393 | | 0 |
| 254 | Chitosan-Based Antimicrobial Coating for Improving Postharvest Shelf Life of Pineapple. *Coatings*, **2021**, 11, 1366 | 2.9 | 2 |
| 253 | Highly Porous and Ultra-Lightweight Aero-GaO: Enhancement of Photocatalytic Activity by Noble Metals. *Materials*, **2021**, 14, | 3.5 | 3 |
| 252 | Chitosan Nanocomposite Coatings Containing Chemically Resistant ZnO-SnO Core-shell Nanoparticles for Photocatalytic Antifouling. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 7 |
| 251 | Functionalized graphene oxide tablets for sample preparation of drugs in biological fluids: Extraction of ritonavir, a HIV protease inhibitor, from human saliva and plasma using LC-MS/MS. *Biomedical Chromatography*, **2021**, 35, e5111 | 1.7 | |
| 250 | Solar selective reflector materials: Another option for enhancing the efficiency of the high-temperature solar receivers/reactors. *Solar Energy Materials and Solar Cells*, **2021**, 224, 110995 | 6.4 | 4 |
| 249 | Nano zero-valent iron on activated carbon cloth support as Fenton-like catalyst for efficient color and COD removal from melanoidin wastewater. *Chemosphere*, **2021**, 263, 127945 | 8.4 | 31 |
| 248 | Efficient and low-energy mechanochemical extraction of lead from dumped crystal glass waste. *Environmental Chemistry Letters*, **2021**, 19, 1879-1885 | 13.3 | 4 |
| 247 | Visible light photocatalytic degradation of polypropylene microplastics in a continuous water flow system. *Journal of Hazardous Materials*, **2021**, 406, 124299 | 12.8 | 54 |

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| 246 | Design principles for enhanced up-scaling of flow-through capacitive deionization for water desalination. *Desalination*, **2021**, 500, 114842 | 10.3 | 7 |
| 245 | Effects of synthesis methods on performance of CuZn/MCM-41 catalysts in methanol steam reforming. *International Journal of Hydrogen Energy*, **2021**, 46, 3539-3553 | 6.7 | 10 |
| 244 | Green Approaches to Prepare Polymeric Composites for Wastewater Treatment. *Materials Horizons* , **2021**, 531-570 | 0.6 | 0 |
| 243 | Flexible modeling and control of capacitive-deionization processes through a linear-state-space dynamic Langmuir model. *Npj Clean Water*, **2021**, 4, | 11.2 | 4 |
| 242 | Electrochemical parameters of aluminum oxide film in situ during anodization of aluminum by white light-optical interferometry. *Optical Review*, **2021**, 28, 18-26 | 0.9 | |
| 241 | X-Fe (X = Mn, Co, Cu) Prussian Blue Analogue-Modified Carbon Cloth Electrodes for Capacitive Deionization. *ACS Applied Energy Materials*, **2021**, 4, 8275-8284 | 6.1 | 5 |
| 240 | Hollow ZnO microspheres self-assembled from rod-like nanostructures: morphology-dependent linear and Kerr-type nonlinear optical properties. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 23385-23398 | 2.1 | 1 |
| 239 | Improved third-order optical nonlinearities in Ag/MoS2 Schottky-type nano/hetero-junctions. *Optics and Laser Technology*, **2021**, 140, 107092 | 4.2 | 2 |
| 238 | A New High-Temperature Durable Absorber Material Solution through a Spinel-Type High Solar Absorptivity Coating on TiAlC MAX Phase Material. *ACS Applied Materials & Interfaces*, **2021**, 13, 45008-45017 | 9.5 | 1 |
| 237 | An Extended Randles Circuit and a Systematic Model-Development Approach for Capacitive Deionization. *Journal of the Electrochemical Society*, **2021**, 168, 013502 | 3.9 | 3 |
| 236 | CO Oxidation Efficiency and Hysteresis Behavior over Mesoporous Pd/SiO2 Catalyst. *Catalysts*, **2021**, 11, 131 | 4 | 5 |
| 235 | Ladder Mechanisms of Ion Transport in Prussian Blue Analogues.. *ACS Applied Materials & Interfaces*, **2021**, | 9.5 | 4 |
| 234 | Predicting and Enhancing the Ion Selectivity in Multi-Ion Capacitive Deionization. *Langmuir*, **2020**, 36, 8476-8484 | 4 | 7 |
| 233 | Basis and Prospects of Combining Electroadsorption Modeling Approaches for Capacitive Deionization **2020**, 2, 309-324 | 2.1 | 4 |
| 232 | Simplified Prediction of Ion Removal in Capacitive Deionization of Multi-Ion Solutions. *Langmuir*, **2020**, 36, 1338-1344 | 4 | 10 |
| 231 | Facile synthesis of ZnS□Ag2S core□shell nanospheres with enhanced nonlinear refraction. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 1283-1292 | 2.1 | 6 |
| 230 | Chitosan based nanocomposite films and coatings: Emerging antimicrobial food packaging alternatives. *Trends in Food Science and Technology*, **2020**, 97, 196-209 | 15.3 | 240 |
| 229 | Chitosan nanocomposite coatings with enhanced corrosion inhibition effects for copper. *International Journal of Biological Macromolecules*, **2020**, 162, 1566-1577 | 7.9 | 14 |

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| 228 | Heterogeneous photo-Fenton reaction and its enhancement upon addition of chelating agents **2020**, 303-330 | | 5 |
| 227 | Optical fiber coated with zinc oxide nanorods toward light side coupling for sensing application **2020**, 293-304 | | |
| 226 | Multimodal Imaging of Pancreatic Ductal Adenocarcinoma Using Multifunctional Nanoparticles as Contrast Agents. *ACS Applied Materials & Interfaces*, **2020**, | 9.5 | 10 |
| 225 | Improved chlorate production with platinum nanoparticles deposited on fluorinated activated carbon cloth electrodes. *Cleaner Engineering and Technology*, **2020**, 1, 100016 | 2.7 | 5 |
| 224 | Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations. *Nature Communications*, **2020**, 11, 6181 | 17.4 | 25 |
| 223 | Asymmetric electrode capacitive deionization for energy efficient desalination. *Electrochimica Acta*, **2020**, 358, 136939 | 6.7 | 4 |
| 222 | Biodegradable Hybrid Nanocomposite of Chitosan/Gelatin and Green Synthesized Zinc Oxide Nanoparticles for Food Packaging. *Foods*, **2020**, 9, | 4.9 | 44 |
| 221 | Disinfection of Bacteria in Water by Capacitive Deionization. *Frontiers in Chemistry*, **2020**, 8, 774 | 5 | 1 |
| 220 | Synthesis of hierarchically porous silica aerogel supported Palladium catalyst for low-temperature CO oxidation under ignition/extinction conditions. *Microporous and Mesoporous Materials*, **2020**, 292, 109758 | 5.3 | 20 |
| 219 | Dynamic Langmuir Model: A Simpler Approach to Modeling Capacitive Deionization. *Journal of Physical Chemistry C*, **2019**, 123, 16479-16485 | 3.8 | 21 |
| 218 | Bionanocomposite films of agar incorporated with ZnO nanoparticles as an active packaging material for shelf life extension of green grape. *Heliyon*, **2019**, 5, e01867 | 3.6 | 77 |
| 217 | Nanocomposite functionalized membranes based on silica nanoparticles cross-linked to electrospun nanofibrous support for arsenic(v) adsorption from contaminated underground water.. *RSC Advances*, **2019**, 9, 8280-8289 | 3.7 | 7 |
| 216 | Visible light photocatalytic degradation of microplastic residues with zinc oxide nanorods. *Environmental Chemistry Letters*, **2019**, 17, 1341-1346 | 13.3 | 129 |
| 215 | Chlorination disadvantages and alternative routes for biofouling control in reverse osmosis desalination. *Npj Clean Water*, **2019**, 2, | 11.2 | 38 |
| 214 | The effects of ZnO nanostructures of different morphology on bioenergetics and stress response biomarkers of the blue mussels Mytilus edulis. *Science of the Total Environment*, **2019**, 694, 133717 | 10.2 | 20 |
| 213 | Copper zinc oxide nanocatalysts grown on cordierite substrate for hydrogen production using methanol steam reforming. *International Journal of Hydrogen Energy*, **2019**, 44, 22936-22946 | 6.7 | 24 |
| 212 | An Easy-to-Use Tool for Modeling the Dynamics of Capacitive Deionization. *Journal of Physical Chemistry A*, **2019**, 123, 6628-6634 | 2.8 | 16 |
| 211 | The influence of initial gold nanoparticles layer on migration of silver nanoparticles in silver/glass matrix. *Thin Solid Films*, **2019**, 685, 216-224 | 2.2 | 3 |

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| 210 | Chitosan Nanocomposite Coatings for Food, Paints, and Water Treatment Applications. *Applied Sciences (Switzerland)*, **2019**, 9, 2409 | 2.6 | 61 |
| 209 | Enhanced Visible Light Photodegradation of Microplastic Fragments with Plasmonic Platinum/Zinc Oxide Nanorod Photocatalysts. *Catalysts*, **2019**, 9, 819 | 4 | 50 |
| 208 | Antifouling properties of chitosan coatings on plastic substrates. *Journal of Agricultural and Marine Sciences*, **2019**, 23, 92 | 0.7 | 2 |
| 207 | Graphene Oxide/Polyethylene Glycol-Stick for Thin Film Microextraction of Blockers from Human Oral Fluid by Liquid Chromatography-Tandem Mass Spectrometry. *Molecules*, **2019**, 24, | 4.8 | 6 |
| 206 | Low-Cost Integrated Zinc Oxide Nanorod-Based Humidity Sensors for Arduino Platform. *IEEE Sensors Journal*, **2019**, 19, 2442-2449 | 4 | 5 |
| 205 | Tailoring the pressure drop and fluid distribution of a capacitive deionization device. *Desalination*, **2019**, 449, 111-117 | 10.3 | 14 |
| 204 | Plasmonic Photocatalyst Design: Metal-Semiconductor Junction Affecting Photocatalytic Efficiency. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 383-388 | 1.3 | 13 |
| 203 | Optical dynamic range maximization for humidity sensing by controlling growth of zinc oxide nanorods. *Photonics and Nanostructures - Fundamentals and Applications*, **2018**, 30, 57-64 | 2.6 | 7 |
| 202 | Nanoparticulate Dielectric Overlayer for Enhanced Electric Fields in a Capacitive Deionization Device. *ACS Applied Materials & Interfaces*, **2018**, 10, 5941-5948 | 9.5 | 12 |
| 201 | Raman Spectroscopy detects changes in Bone Mineral Quality and Collagen Cross-linkage in Staphylococcus Infected Human Bone. *Scientific Reports*, **2018**, 8, 9417 | 4.9 | 40 |
| 200 | Nanocomposite Zinc Oxide-Chitosan Coatings on Polyethylene Films for Extending Storage Life of Okra (). *Nanomaterials*, **2018**, 8, | 5.4 | 35 |
| 199 | Visible light photocatalytic degradation of HPAM polymer in oil produced water using supported zinc oxide nanorods. *Chemical Engineering Journal*, **2018**, 351, 56-64 | 14.7 | 32 |
| 198 | Oriented zinc oxide nanorods: A novel saturable absorber for lasers in the near-infrared. *Beilstein Journal of Nanotechnology*, **2018**, 9, 2730-2740 | 3 | 6 |
| 197 | Critical Review of Low-Temperature CO Oxidation and Hysteresis Phenomenon on Heterogeneous Catalysts. *Catalysts*, **2018**, 8, 660 | 4 | 44 |
| 196 | Silica and carbon decorated silica nanosheet impact on primary human immune cells. *Colloids and Surfaces B: Biointerfaces*, **2018**, 172, 779-789 | 6 | 2 |
| 195 | Measurement of aluminum oxide film by Fabry Pot interferometry and scanning electron microscopy. *Journal of Saudi Chemical Society*, **2017**, 21, 938-942 | 4.3 | 2 |
| 194 | Lagrange multipliers, (exact) regularization and error bounds for monotone variational inequalities. *Mathematical Programming*, **2017**, 161, 519-549 | 2.1 | 4 |
| 193 | Rare Earth Ions Adsorption onto Graphene Oxide Nanosheets. *Solvent Extraction and Ion Exchange*, **2017**, 35, 91-103 | 2.5 | 68 |

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| 192 | Influence of Atomic Hydrogen, Band Bending, and Defects in the Top Few Nanometers of Hydrothermally Prepared Zinc Oxide Nanorods. *Nanoscale Research Letters*, **2017**, 12, 22 | 5 | 28 |
| 191 | TEMPERATURE SENSING BY SIDE COUPLING OF LIGHT THROUGH ZINC OXIDE NANORODS ON OPTICAL FIBERS. *Sensors and Actuators A: Physical*, **2017**, 257, 15-19 | 3.9 | 5 |
| 190 | Selective separation of rare earth ions from aqueous solution using functionalized magnetite nanoparticles: kinetic and thermodynamic studies. *Chemical Engineering Journal*, **2017**, 327, 286-296 | 14.7 | 73 |
| 189 | Supported versus colloidal zinc oxide for advanced oxidation processes. *Applied Surface Science*, **2017**, 411, 285-290 | 6.7 | 7 |
| 188 | Observation of exchanging role of gold and silver nanoparticles in bimetallic thin film upon annealing above the glass transition temperature. *Materials Research Express*, **2017**, 4, 086409 | 1.7 | 3 |
| 187 | Bioinspired nanocoatings for biofouling prevention by photocatalytic redox reactions. *Scientific Reports*, **2017**, 7, 3624 | 4.9 | 40 |
| 186 | Fabrication and thermo-physical properties characterization of ethylene glycol□MoS2 heat exchange fluids. *International Communications in Heat and Mass Transfer*, **2017**, 89, 185-189 | 5.8 | 0 |
| 185 | Antimicrobial Activity Enhancement of Poly(ether sulfone) Membranes by in Situ Growth of ZnO Nanorods. *ACS Omega*, **2017**, 2, 3157-3167 | 3.9 | 29 |
| 184 | Chitosan-zinc oxide nanocomposite coatings for the prevention of marine biofouling. *Chemosphere*, **2017**, 168, 408-417 | 8.4 | 114 |
| 183 | Defect engineered visible light active ZnO nanorods for photocatalytic treatment of water. *Catalysis Today*, **2017**, 284, 11-18 | 5.3 | 73 |
| 182 | Resistance Values of Aluminum Oxide Film in Situ during Anodization of Aluminum by Fabry-P□ot Interferometry. *ECS Transactions*, **2017**, 80, 1221-1229 | 1 | 2 |
| 181 | Oriented ZnO nanorods: A novel saturable absorber for lasers at 1□ □n **2017**, | | 2 |
| 180 | Sol-Gel-Assisted Microwave-Derived Synthesis of Anatase Ag/TiO2/GO Nanohybrids toward Efficient Visible Light Phenol Degradation. *Catalysts*, **2017**, 7, 133 | 4 | 52 |
| 179 | Efficient visible light photocatalysis of benzene, toluene, ethylbenzene and xylene (BTEX) in aqueous solutions using supported zinc oxide nanorods. *PLoS ONE*, **2017**, 12, e0189276 | 3.7 | 24 |
| 178 | Intermediate formation during photodegradation of phenol using lanthanum doped tin dioxide nanoparticles. *Research on Chemical Intermediates*, **2016**, 42, 3055-3069 | 2.8 | 21 |
| 177 | Applied light-side coupling with optimized spiral-patterned zinc oxide nanorod coatings for multiple optical channel alcohol vapor sensing. *Journal of Nanophotonics*, **2016**, 10, 036009 | 1.1 | 8 |
| 176 | Importance of Plasmonic Heating on Visible Light Driven Photocatalysis of Gold Nanoparticle Decorated Zinc Oxide Nanorods. *Scientific Reports*, **2016**, 6, 26913 | 4.9 | 91 |
| 175 | Side coupling of multiple optical channels by spiral patterned zinc oxide coatings on large core plastic optical fibers. *Micro and Nano Letters*, **2016**, 11, 122-126 | 0.9 | 8 |

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| 174 | Efficient photocatalytic degradation of phenol in aqueous solution by SnO2:Sb nanoparticles. *Applied Surface Science*, **2016**, 370, 229-236 | 6.7 | 43 |
| 173 | Removal and regrowth inhibition of microalgae using visible light photocatalysis with ZnO nanorods: A green technology. *Separation and Purification Technology*, **2016**, 162, 61-67 | 8.3 | 31 |
| 172 | Self-decontaminating photocatalytic zinc oxide nanorod coatings for prevention of marine microfouling: a mesocosm study. *Biofouling*, **2016**, 32, 383-95 | 3.3 | 28 |
| 171 | Perspectives and applications of nanotechnology in water treatment. *Environmental Chemistry Letters*, **2016**, 14, 1-14 | 13.3 | 82 |
| 170 | Capacitive Deionization for removal of arsenic from water. *Arsenic in the Environment Proceedings*, **2016**, 521-522 | | 1 |
| 169 | Developing innovations for adsorptive removal of arsenic from drinking water sources in North Mara gold mining area, Tanzania. *Arsenic in the Environment Proceedings*, **2016**, 559-560 | | |
| 168 | Controlled Defects of Zinc Oxide Nanorods for Efficient Visible Light Photocatalytic Degradation of Phenol. *Materials*, **2016**, 9, | 3.5 | 62 |
| 167 | Role of bonding mechanisms during transfer hydrogenation reaction on heterogeneous catalysts of platinum nanoparticles supported on zinc oxide nanorods. *Applied Surface Science*, **2016**, 377, 200-206 | 6.7 | 9 |
| 166 | Chitosan-zinc oxide nanoparticle composite coating for active food packaging applications. *Innovative Food Science and Emerging Technologies*, **2016**, 38, 231-237 | 6.8 | 205 |
| 165 | Capacitive deionization with asymmetric electrodes: Electrode capacitance vs electrode surface area. *Electrochimica Acta*, **2015**, 176, 420-425 | 6.7 | 16 |
| 164 | Comparison of photocatalytic activity of zinc stannate particles and zinc stannate/zinc oxide composites for the removal of phenol from water, and a study on the effect of pH on photocatalytic efficiency. *Materials Science in Semiconductor Processing*, **2015**, 36, 124-133 | 4.3 | 16 |
| 163 | Effect of a semiconductor dielectric coating on the salt adsorption capacity of a porous electrode in a capacitive deionization cell. *Electrochimica Acta*, **2015**, 166, 329-337 | 6.7 | 25 |
| 162 | Nanotechnology in Water Treatment. *Environmental Chemistry for A Sustainable World*, **2015**, 51-84 | 0.8 | 2 |
| 161 | Role of surface defects on visible light enabled plasmonic photocatalysis in Au@ZnO nanocatalysts. *RSC Advances*, **2015**, 5, 96670-96680 | 3.7 | 50 |
| 160 | Synthesis of supported silver nano-spheres on zinc oxide nanorods for visible light photocatalytic applications. *Materials Research Bulletin*, **2015**, 63, 134-140 | 5.1 | 83 |
| 159 | Efficient solar photocatalytic degradation of textile wastewater using ZnO/ZTO composites. *Applied Catalysis B: Environmental*, **2015**, 163, 1-8 | 21.8 | 88 |
| 158 | Photocatalytic degradation of phenol by iodine doped tin oxide nanoparticles under UV and sunlight irradiation. *Journal of Alloys and Compounds*, **2015**, 618, 366-371 | 5.7 | 56 |
| 157 | Photocatalytic Inactivation of Escherichia Coli Using Zinc Stannate Nanostructures under Visible Light. *Advanced Materials Research*, **2015**, 1131, 203-209 | 0.5 | 5 |

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| 156 | Design of electric-field assisted surface plasmon resonance system for the detection of heavy metal ions in water. *AIP Advances*, **2015**, 5, 107226 | 1.5 | 11 |
| 155 | Phase Transformation of Metastable ZnSnO3 Upon Thermal Decomposition by In-Situ Temperature-Dependent Raman Spectroscopy. *Journal of the American Ceramic Society*, **2015**, 98, 4044-4049 | 3.8 | 27 |
| 154 | Self-organization of gold nanoparticles on silanated surfaces. *Beilstein Journal of Nanotechnology*, **2015**, 6, 2345-53 | 3 | 52 |
| 153 | Optimization of the sublethal dose of silver nanoparticle through evaluating its effect on intestinal physiology of Nile tilapia (Oreochromis niloticus L.). *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2015**, 50, 814-23 | 2.3 | 16 |
| 152 | Gadolinium doped tin dioxide nanoparticles: an efficient visible light active photocatalyst. *Journal of Rare Earths*, **2015**, 33, 1275-1283 | 3.7 | 23 |
| 151 | Heavy metal ion sensing in water using surface plasmon resonance of metallic nanostructures. *Groundwater for Sustainable Development*, **2015**, 1, 1-11 | 6 | 28 |
| 150 | Improved desalination by zinc oxide nanorod induced electric field enhancement in capacitive deionization of brackish water. *Desalination*, **2015**, 359, 64-70 | 10.3 | 40 |
| 149 | Desalination and disinfection of inland brackish ground water in a capacitive deionization cell using nanoporous activated carbon cloth electrodes. *Desalination*, **2015**, 362, 126-132 | 10.3 | 58 |
| 148 | Applications of nanotechnology in wastewater treatment--a review. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 613-26 | 1.3 | 124 |
| 147 | Visible light photocatalysis of mixed phase zinc stannate/zinc oxide nanostructures precipitated at room temperature in aqueous media. *Ceramics International*, **2014**, 40, 8743-8752 | 5.1 | 42 |
| 146 | Brackish water desalination by capacitive deionization using zinc oxide micro/nanostructures grafted on activated carbon cloth electrodes. *Desalination*, **2014**, 344, 236-242 | 10.3 | 86 |
| 145 | Microwave-enhanced degradation of phenol over Ni-loaded ZnO nanorods catalyst. *Applied Catalysis B: Environmental*, **2014**, 156-157, 456-465 | 21.8 | 44 |
| 144 | One pot synthesis of opposing 'rose petal' and 'lotus leaf' superhydrophobic materials with zinc oxide nanorods. *Journal of Colloid and Interface Science*, **2014**, 415, 32-8 | 9.3 | 38 |
| 143 | Enhanced hydrogen selectivity via photo-engineered surface defects for methanol steam reformation using zinc oxide□copper nanocomposite catalysts. *Applied Catalysis A: General*, **2014**, 471, 63-69 | 5.1 | 9 |
| 142 | Phase transformation behavior of zinc metastannates obtained by aqueous precipitation at different temperatures. *Journal of Materials Science*, **2014**, 49, 7282-7289 | 4.3 | 7 |
| 141 | Enhancement in ion adsorption rate and desalination efficiency in a capacitive deionization cell through improved electric field distribution using electrodes composed of activated carbon cloth coated with zinc oxide nanorods. *ACS Applied Materials & Interfaces*, **2014**, 6, 10113-20 | 9.5 | 47 |
| 140 | Antifouling properties of zinc oxide nanorod coatings. *Biofouling*, **2014**, 30, 871-82 | 3.3 | 56 |
| 139 | Photocatalytic degradation of phenol in aqueous solution by rare earth-doped SnO2 nanoparticles. *Journal of Materials Science*, **2014**, 49, 5151-5159 | 4.3 | 37 |

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| 138 | Controlled growth of zinc oxide microrods by hydrothermal process on porous ceramic supports for catalytic application. *Journal of Alloys and Compounds*, **2014**, 586, 169-175 | 5.7 | 14 |
| 137 | Controlled side coupling of light to cladding mode of ZnO nanorod coated optical fibers and its implications for chemical vapor sensing. *Sensors and Actuators B: Chemical*, **2014**, 202, 543-550 | 8.5 | 23 |
| 136 | Improved Sensitization of Zinc Oxide Nanorods by Cadmium Telluride Quantum Dots through Charge Induced Hydrophilic Surface Generation. *Journal of Nanomaterials*, **2014**, 2014, 1-8 | 3.2 | 4 |
| 135 | Excitation of core modes through side coupling to multimode optical fiber by hydrothermal growth of ZnO nanorods for wide angle optical reception. *Journal of the Optical Society of America B: Optical Physics*, **2014**, 31, 2232 | 1.7 | 7 |
| 134 | Multilayered gold/silica nanoparticulate bilayer devices using layer-by-layer self organisation for flexible bending and pressure sensing applications. *Applied Physics Letters*, **2014**, 104, 073106 | 3.4 | |
| 133 | Application of Eh-pH diagram for room temperature precipitation of zinc stannate microcubes in an aqueous media. *Materials Research Bulletin*, **2014**, 49, 645-650 | 5.1 | 28 |
| 132 | Engineering FRET-Based Solar Cells: Manipulation of Energy and Electron Transfer Processes in a Light Harvesting Assembly. *Springer Series in Materials Science*, **2014**, 267-318 | 0.9 | 3 |
| 131 | Enhancement of Photocatalytic Degradation of Methyl Orange by Supported Zinc Oxide Nanorods/Zinc Stannate (ZnO/ZTO) on Porous Substrates. *Industrial & Engineering Chemistry Research*, **2013**, 52, 13629-13636 | 3.9 | 61 |
| 130 | Two step copper impregnated zinc oxide microball synthesis for the reduction of activation energy of methanol steam reformation. *Chemical Engineering Journal*, **2013**, 223, 304-308 | 14.7 | 15 |
| 129 | Role of central metal ions in hematoporphyrin-functionalized titania in solar energy conversion dynamics. *Physical Chemistry Chemical Physics*, **2013**, 15, 18562-70 | 3.6 | 32 |
| 128 | Rational surface modification of Mn3O4 nanoparticles to induce multiple photoluminescence and room temperature ferromagnetism. *Journal of Materials Chemistry C*, **2013**, 1, 1885 | 7.1 | 62 |
| 127 | UVA radiation induced ultrafast electron transfer from a food carcinogen benzo[a]pyrene to organic molecules, biological macromolecules, and inorganic nano structures. *Journal of Physical Chemistry B*, **2013**, 117, 3726-37 | 3.4 | 5 |
| 126 | Hydrophobic/hydrophilic switching on zinc oxide micro-textured surface. *Applied Surface Science*, **2013**, 264, 344-348 | 6.7 | 54 |
| 125 | Optical fiber-based sensor for in situ monitoring of cadmium sulfide thin-film growth. *Optics Letters* , **2013**, 38, 5385-8 | 3 | 8 |
| 124 | Demonstration of side coupling to cladding modes through zinc oxide nanorods grown on multimode optical fiber. *Optics Letters*, **2013**, 38, 3620-2 | 3 | 19 |
| 123 | DEVELOPMENT OF INTEGRATED MICROFLUIDIC DEVICE FOR OPTICAL FLOW RATE SENSING. *Journal of Circuits, Systems and Computers*, **2013**, 22, 1340016 | 0.9 | 1 |
| 122 | Plasmon Resonance Enhanced Zinc Oxide Photoelectrodes for Improvement in Performance of Dye Sensitized Solar Cells. *Materials Science Forum*, **2013**, 771, 91-101 | 0.4 | 2 |
| 121 | . *IEEE Nanotechnology Magazine*, **2013**, 12, 255-262 | 2.6 | 37 |

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| 120 | Studies on hydrothermally synthesised zinc oxide nanorod arrays for their enhanced visible light photocatalysis. *International Journal of Environmental Technology and Management*, **2013**, 16, 146 | 0.6 | 5 |
| 119 | Visible-Light-Induced Directed Gold Microwires by Self-Organization of Nanoparticles on Aspergillus Niger. *Particle and Particle Systems Characterization*, **2013**, 30, 473-480 | 3.1 | 9 |
| 118 | Modulation of defect-mediated energy transfer from ZnO nanoparticles for the photocatalytic degradation of bilirubin. *Beilstein Journal of Nanotechnology*, **2013**, 4, 714-25 | 3 | 45 |
| 117 | Zinc oxide□inc stannate core□hell nanorod arrays for CdS quantum dot sensitized solar cells. *Electrochimica Acta*, **2012**, 68, 141-145 | 6.7 | 44 |
| 116 | Manganese doped zinc sulfide quantum dots for detection of Escherichia coli. *Journal of Fluorescence*, **2012**, 22, 403-8 | 2.4 | 23 |
| 115 | Microbial Pathogen Inactivation Using Heterogeneous Photocatalysis. *Environmental Chemistry for A Sustainable World*, **2012**, 511-541 | 0.8 | 1 |
| 114 | Hematoporphyrin-ZnO nanohybrids: twin applications in efficient visible-light photocatalysis and dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2012**, 4, 7027-35 | 9.5 | 57 |
| 113 | Development of a visible light active photocatalytic portable water purification unit using ZnO nanorods. *Catalysis Science and Technology*, **2012**, 2, 918 | 5.5 | 41 |
| 112 | Fabrication of zinc oxide nanorods modified activated carbon cloth electrode for desalination of brackish water using capacitive deionization approach. *Desalination*, **2012**, 305, 24-30 | 10.3 | 81 |
| 111 | Hydrothermal Growth of ZnO Hexagonal Nanocrystals: Effect of Growth Conditions. *Journal of Nano Research*, **2012**, 21, 57-63 | 1 | 6 |
| 110 | Paper modified with ZnO nanorods - antimicrobial studies. *Beilstein Journal of Nanotechnology*, **2012**, 3, 684-91 | 3 | 49 |
| 109 | One-Diode Model Equivalent Circuit Analysis for ZnO Nanorod-Based Dye-Sensitized Solar Cells: Effects of Annealing and Active Area. *IEEE Nanotechnology Magazine*, **2012**, 11, 763-768 | 2.6 | 14 |
| 108 | Chromatic tuning of plasmon resonance of tri-layered composites: silver, gold and copper nanoparticles for optical thin film colour filter. *Micro and Nano Letters*, **2012**, 7, 146 | 0.9 | 4 |
| 107 | Multilayer thin films of colloidal gold and silica nanoparticles: Effect of polyelectrolyte coating. *Canadian Journal of Chemical Engineering*, **2012**, 90, 919-924 | 2.3 | 1 |
| 106 | Nanoparticle-Sensitized Photodegradation of Bilirubin and Potential Therapeutic Application. *Journal of Physical Chemistry C*, **2012**, 116, 9608-9615 | 3.8 | 28 |
| 105 | Dual-Sensitization via Electron and Energy Harvesting in CdTe Quantum Dots Decorated ZnO Nanorod-Based Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2012**, 116, 14248-14256 | 3.8 | 45 |
| 104 | Microwave assisted hydrothermal synthesis of zinc hydroxystannate films on glass substrates. *Journal of Sol-Gel Science and Technology*, **2012**, 62, 495-504 | 2.3 | 8 |
| 103 | Heterogeneous photocatalysis for removal of microbes from water. *Environmental Chemistry Letters*, **2012**, 10, 145-151 | 13.3 | 27 |

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|---|---|---|---|
| 102 | Zinc oxide nanorods based catalysts for hydrogen production by steam reforming of methanol. *International Journal of Hydrogen Energy*, **2012**, 37, 5518-5526 | 6.7 | 33 |
| 101 | Chitosan Capped Colloidal Gold Nanoparticles for Sensing Zinc Ions in Water. *Journal of Nano Research*, **2012**, 16, 55-61 | 1 | 12 |
| 100 | Self-organization of colloidal nanoparticles into functional pressure sensing device. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 8143-6 | 1.3 | 2 |
| 99 | Nanostructured Zinc Oxide for Water Treatment. *Nanoscience and Nanotechnology - Asia*, **2012**, 2, 90-102 | 0.7 | 86 |
| 98 | Zinc oxide nanorod mediated visible light photoinactivation of model microbes in water. *Nanotechnology*, **2011**, 22, 215703 | 3.4 | 89 |
| 97 | Highly efficient ZnO/Au Schottky barrier dye-sensitized solar cells: Role of gold nanoparticles on the charge-transfer process. *Beilstein Journal of Nanotechnology*, **2011**, 2, 681-90 | 3 | 92 |
| 96 | Enhanced visible light photocatalysis by manganese doping or rapid crystallization with ZnO nanoparticles. *Materials Chemistry and Physics*, **2011**, 130, 531-535 | 4.4 | 89 |
| 95 | Plasmon resonance tuning of gold and silver nanoparticle-insulator multilayered composite structures for optical filters. *Micro and Nano Letters*, **2011**, 6, 342 | 0.9 | 11 |
| 94 | Optical thin film filters of colloidal gold and silica nanoparticles prepared by a layer-by-layer self-assembly method. *Journal of Materials Science*, **2011**, 46, 6877-6882 | 4.3 | 10 |
| 93 | Photoselective excited state dynamics in ZnO-Au nanocomposites and their implications in photocatalysis and dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2011**, 13, 12488-96 | 3.6 | 92 |
| 92 | Zinc stannate nanostructures: hydrothermal synthesis. *Science and Technology of Advanced Materials*, **2011**, 12, 013004 | 7.1 | 112 |
| 91 | Superhydrophobic surfaces using selected zinc oxide microrod growth on ink-jetted patterns. *Journal of Colloid and Interface Science*, **2011**, 354, 810-5 | 9.3 | 47 |
| 90 | High-performance liquefied petroleum gas sensing based on nanostructures of zinc oxide and zinc stannate. *Sensors and Actuators B: Chemical*, **2011**, 157, 232-239 | 8.5 | 74 |
| 89 | Zinc stannate nanostructures: hydrothermal synthesis. *Science and Technology of Advanced Materials*, **2011**, 12, 013004 | 7.1 | 6 |
| 88 | Spray Pyrolized Pre-coating Layers for Controlled Growth of Zinc Oxide Nanorods by Hydrothermal Process. *Nanoscience and Nanotechnology - Asia*, **2011**, 1, 92-96 | 0.7 | 4 |
| 87 | Toxicity of ZnO and TiO2 Nanoparticles on Germinating Rice Seed Oryza sativa L. *International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB)*, **2011**, 282-285 | 0.3 | 45 |
| 86 | Poor Man's Nanotechnology From the Bottom Up (Thailand). *Perspectives in Nanotechnology*, **2011**, 141-154 | | |
| 85 | Enhanced visible light photocatalysis through fast crystallization of zinc oxide nanorods. *Beilstein Journal of Nanotechnology*, **2010**, 1, 14-20 | 3 | 120 |

| | | | |
|---|---|---|---|
| 84 | Photocatalytic paper using zinc oxide nanorods. *Science and Technology of Advanced Materials*, **2010**, 11, 055002 | 7.1 | 90 |
| 83 | Dynamics of light harvesting in ZnO nanoparticles. *Nanotechnology*, **2010**, 21, 265703 | 3.4 | 39 |
| 82 | Synthesis and Electrical Characterization of Multilayer Thin Films Designed by Layer-by-Layer Self Assembly of Nanoparticles. *Journal of Nano Research*, **2010**, 11, 1-6 | 1 | 3 |
| 81 | Role of Resonance Energy Transfer in Light Harvesting of Zinc Oxide-Based Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 10390-10395 | 3.8 | 45 |
| 80 | Photoreactivity of ZnO nanoparticles in visible light: Effect of surface states on electron transfer reaction. *Journal of Applied Physics*, **2009**, 105, 074308 | 2.5 | 108 |
| 79 | Nanotechnology applications in pollution sensing and degradation in agriculture: a review. *Environmental Chemistry Letters*, **2009**, 7, 191-204 | 13.3 | 214 |
| 78 | Effect of seeded substrates on hydrothermally grown ZnO nanorods. *Journal of Sol-Gel Science and Technology*, **2009**, 50, 456-464 | 2.3 | 136 |
| 77 | Perspectives for chitosan based antimicrobial films in food applications. *Food Chemistry*, **2009**, 114, 1173-1182 | 3.5 | 990 |
| 76 | pH-dependent growth of zinc oxide nanorods. *Journal of Crystal Growth*, **2009**, 311, 2549-2554 | 1.6 | 184 |
| 75 | Selective growth of zinc oxide nanorods on inkjet printed seed patterns. *Journal of Crystal Growth*, **2009**, 311, 2352-2358 | 1.6 | 36 |
| 74 | Hydrothermal growth of ZnO nanostructures. *Science and Technology of Advanced Materials*, **2009**, 10, 013001 | 7.1 | 814 |
| 73 | VISIBLE LIGHT PHOTOCATALYSIS BY TAILORING CRYSTAL DEFECTS IN ZINC OXIDE NANOSTRUCTURES. *Nano*, **2008**, 03, 399-407 | 1.1 | 75 |
| 72 | Direct Synthesis of Anisotropic Metal Particles by Ink Jet Printing Technique. *Advanced Materials Research*, **2008**, 55-57, 585-588 | 0.5 | |
| 71 | Chitosan Clad Manganese Doped Zing Sulphide Nanocrystallites for Biolabeling. *Advanced Materials Research*, **2008**, 55-57, 589-592 | 0.5 | 1 |
| 70 | Growth of ZnO nanowires on nonwoven polyethylene fibers. *Science and Technology of Advanced Materials*, **2008**, 9, 025009 | 7.1 | 106 |
| 69 | Studies on Chitosan Stabilised ZnS:Mn2+ Nanoparticles. *Journal of Bionanoscience*, **2008**, 2, 42-48 | | 10 |
| 68 | Growth of gold/zinc sulphide multilayer films using layer-by-layer assembly of colloidal nanoparticles. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 41, 285-291 | 3 | 9 |
| 67 | Photocatalytic degradation of organic dyes with manganese-doped ZnO nanoparticles. *Journal of Hazardous Materials*, **2008**, 156, 194-200 | 12.8 | 614 |

| | | | |
|---|---|---|---|
| 66 | Conduction Properties of Layer-by-Layer Self-Assembled Multilayer Nanoparticulate Structures. *Journal of Nanoelectronics and Optoelectronics*, **2008**, 3, 184-189 | 1.3 | 10 |
| 65 | Synthesis and Optical Properties of Transition Metal Doped ZnO Nanoparticles **2007**, | | 4 |
| 64 | Nutrition-Driven Assembly of Colloidal Nanoparticles: Growing Fungi Assemble Gold Nanoparticles as Microwires. *Advanced Materials*, **2007**, 19, 77-81 | 24 | 74 |
| 63 | DC Analysis of Layer by Layer Devices Fabricated by Nanotechnology **2007**, | | 1 |
| 62 | Forensic Fingerprint Enhancement using Bioadhesive Chitosan and Gold Nanoparticles **2007**, | | 1 |
| 61 | Current-voltage characteristics of layer-by-layer self-assembled colloidal thin films. *Applied Physics Letters*, **2006**, 89, 133123 | 3.4 | 9 |
| 60 | Photocatalytic activities of ZnO nanoparticles synthesized by wet chemical techniques **2006**, | | 4 |
| 59 | Zinc oxide nanowires in chemical bath on seeded substrates: Role of hexamine. *Journal of Sol-Gel Science and Technology*, **2006**, 39, 49-56 | 2.3 | 266 |
| 58 | ATMOSPHERIC PARAMETERS SENSING USING NANOTECHNOLOGY BASED SENSORS AND IMAGE PROCESSED REAL-TIME SATELLITE DATA. *NATO Science Series Series II, Mathematics, Physics and Chemistry*, **2006**, 443-448 | | |
| 57 | Diode fabricated by layer by layer deposition of semiconductor nanoparticles **2005**, | | 1 |
| 56 | ZnS:Mn2+ Phosphors Capped with Chitosan. *Microscopy and Microanalysis*, **2005**, 11, | 0.5 | 2 |
| 55 | Effects of cosurfactant on ZnS nanoparticle synthesis in microemulsion. *Science and Technology of Advanced Materials*, **2005**, 6, 266-271 | 7.1 | 53 |
| 54 | Synthesis of Controlled Spherical Zinc Sulfide Particles by Precipitation from Homogeneous Solutions. *Journal of the American Ceramic Society*, **2005**, 81, 2699-2705 | 3.8 | 59 |
| 53 | Air pollution monitoring and GIS modeling: a new use of nanotechnology based solid state gas sensors. *Science and Technology of Advanced Materials*, **2005**, 6, 251-255 | 7.1 | 46 |
| 52 | Luminescent nanoparticles of Mn doped ZnS passivated with sodium hexametaphosphate. *Science and Technology of Advanced Materials*, **2005**, 6, 296-301 | 7.1 | 131 |
| 51 | Heavy-metal ion sensors using chitosan-capped gold nanoparticles. *Science and Technology of Advanced Materials*, **2005**, 6, 335-340 | 7.1 | 250 |
| 50 | Nanotechnology in environmental protection and pollution. *Science and Technology of Advanced Materials*, **2005**, 6, 219-220 | 7.1 | 20 |
| 49 | Directed Self-Assembly of Multilayer Thin Films of ZnS and Gold Nanoparticles by Modified Polyelectrolyte Deposition Technique. *Materials Research Society Symposia Proceedings*, **2005**, 901, 1 | | 3 |

| | | | |
|---|---|---|---|
| 48 | Growth of Zinc Oxide Nanowires and Nanobelts for Gas Sensing Applications. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 23, 27-30 | 0.2 | 57 |
| 47 | Novel Synthesis of Gold Nanoparticles in Aqueous Media. *Materials Research Society Symposia Proceedings*, **2005**, 901, 1 | | 7 |
| 46 | Zinc Oxide Nanowires on Non-Epitaxial Substrates from Colloidal Processing, for Gas Sensing Applications **2005**, 335-338 | | 3 |
| 45 | Colloidal self-organization for nanoelectronics **2004**, | | 3 |
| 44 | Effect of CuO additives on the reversibility of zirconia crystalline phase transitions. *Journal of Materials Science*, **1999**, 34, 2207-2215 | 4.3 | 11 |
| 43 | Synthesis of Zirconia-coated Gold Nanoparticles. *Journal of Materials Science Letters*, **1998**, 17, 1665-1667 | | 4 |
| 42 | Gold nanoparticle synthesis in graft copolymer micelles. *Colloid and Polymer Science*, **1998**, 276, 853-859 | 2.4 | 71 |
| 41 | Nanoporous aggregates of ZnS nanocrystallites **1998**, 12, 327-335 | | 31 |
| 40 | Structure of nanometersized silicon particles prepared by various gas phase processes. *Journal of Non-Crystalline Solids*, **1998**, 232-234, 182-187 | 3.9 | 15 |
| 39 | Mie scattering effects from monodispersed ZnS nanospheres. *Journal of Applied Physics*, **1998**, 83, 7860-7866 | 2.5 | 82 |
| 38 | Nanostructured Zinc Sulphide Phosphors. *Materials Research Society Symposia Proceedings*, **1997**, 501, 369 | | 32 |
| 37 | Tin Dioxide Nano-Powders for Gas Sensor Applications. *Materials Research Society Symposia Proceedings*, **1997**, 501, 41 | | 2 |
| 36 | Optical Properties of Gold Clusters Precipitated on Zirconia Particles. *Materials Research Society Symposia Proceedings*, **1997**, 501, 85 | | |
| 35 | Optical properties of gold-containing Poly(acrylic acid) composites. *Materials Research Society Symposia Proceedings*, **1997**, 501, 79 | | 1 |
| 34 | Cluster-induced crystallization of nano-silicon particles. *Scripta Materialia*, **1997**, 9, 359-362 | | 7 |
| 33 | Effective medium theory characterization of Au/Ag nanoalloy-porous alumina composites. *Scripta Materialia*, **1997**, 9, 571-574 | | 32 |
| 32 | Dynamical Maxwell-Garnett optical modeling of nanogold-porous alumina composites: Mie and Kappa influence on absorption maxima. *Scripta Materialia*, **1997**, 9, 575-578 | | 16 |
| 31 | Growth, microstructure and sintering behavior of nanosized silicon powders. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1997**, 127, 263-272 | 5.1 | 9 |

| | | | |
|---|---|---|---|
| 30 | Crystallization of nanosized silicon powder prepared by plasma-induced clustering reactions. *AICHE Journal*, **1997**, 43, 2610-2615 | 3.6 | 5 |
| 29 | European consortium on nanomaterials. *Advanced Materials*, **1996**, 8, 555-557 | 24 | 1 |
| 28 | Nanoscale Ordering in Amorphous Silicon Powders Formed by Plasma Induced Reaction of Silane. *Materials Science Forum*, **1996**, 235-238, 595-600 | 0.4 | 2 |
| 27 | Atomic structure of amorphous nanosized silicon powders upon thermal treatment. *Physical Review B*, **1996**, 54, 2856-2862 | 3.3 | 63 |
| 26 | Pyrosol deposition of fluorine-doped tin dioxide thin films. *Journal of Materials Science*, **1995**, 30, 53-62 | 4.3 | 27 |
| 25 | Processing of nano-scaled silicon powders to prepare slip cast structural ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1995**, 204, 107-112 | 5.3 | 16 |
| 24 | Visible photoluminescence from hydrogenated silicon particles suspended in a silane plasma. *Journal of Applied Physics*, **1995**, 78, 61-66 | 2.5 | 25 |
| 23 | Microstructural properties of silicon powder produced in a low pressure silane discharge. *Journal of Applied Physics*, **1995**, 77, 3729-3733 | 2.5 | 8 |
| 22 | Chemical synthesis and characterization of nano-crystalline palladium oxide. *Scripta Materialia*, **1995**, 6, 313-316 | | 7 |
| 21 | Crystallization of amorphous nano-sized silicon powders. *Scripta Materialia*, **1995**, 6, 493-496 | | 8 |
| 20 | Multilayered silicon/silicon nitride thin films deposited by plasma-CVD: Effects of crystallization. *Scripta Materialia*, **1995**, 6, 843-846 | | 16 |
| 19 | Diagnostics of particle genesis and growth in RF silane plasmas by ion mass spectrometry and light scattering. *Plasma Sources Science and Technology*, **1994**, 3, 278-285 | 3.5 | 111 |
| 18 | Application of pyrosol deposition process for large-area deposition of fluorine-doped tin dioxide thin films. *Thin Solid Films*, **1994**, 239, 150-155 | 2.2 | 20 |
| 17 | Influence of higher deposition temperature on a-Si:H material properties, powder formation and light-induced degradation, using the VHF (70 MHz) glow discharge technique. *Journal of Non-Crystalline Solids*, **1993**, 164-166, 59-62 | 3.9 | 9 |
| 16 | Effect of Ion Bombardment on the Properties of Hydrogenated Amorphous Silicon Prepared from Undiluted and Xenon-Diluted Silane. *Japanese Journal of Applied Physics*, **1992**, 31, L299-L302 | 1.4 | 2 |
| 15 | Dependence of intrinsic stress in hydrogenated amorphous silicon on excitation frequency in a plasma-enhanced chemical vapor deposition process. *Journal of Applied Physics*, **1992**, 72, 3220-3222 | 2.5 | 46 |
| 14 | VHF Plasma Deposition: A Comparative Overview. *Materials Research Society Symposia Proceedings*, **1992**, 258, 15 | | 40 |
| 13 | Microstructure, Optoelectronic Properties and Saturated Defect Density of A-SL:H Prepared in VHF-Glow Discharge Using AR and XE Dilution. *Materials Research Society Symposia Proceedings*, **1992**, 258, 135 | | 10 |

| | | | |
|---|---|---|---|
| 12 | Bilayer SnO2:In/SnO2 thin films as transparent electrodes of amorphous silicon solar cells. *Thin Solid Films*, **1991**, 199, 201-207 | 2.2 | 21 |
| 11 | Optically induced restructuring of a hydrogenated amorphous silicon thin-film surface. *Applied Physics Letters*, **1990**, 57, 1227-1229 | 3.4 | 5 |
| 10 | Radiofrequency-plasma-deposited hydrogenated fluorinated silicon-carbon alloy films. *Physical Review B*, **1989**, 40, 3830-3836 | 3.3 | 10 |
| 9 | Comparison of the properties of hydrogenated microcrystalline silicon films deposited by photo□hemical-vapor deposition and glow-discharge deposition processes. *Journal of Applied Physics*, **1989**, 66, 4709-4714 | 2.5 | 11 |
| 8 | Effect of ultraviolet irradiation on the white light degraded electronic properties of hydrogenated amorphous silicon films. *Applied Physics Letters*, **1989**, 55, 1975-1977 | 3.4 | 7 |
| 7 | Variations in structural and electrical properties of magnetron-sputtered indium tin oxide films with deposition parameters. *Thin Solid Films*, **1988**, 162, 119-127 | 2.2 | 39 |
| 6 | Plasma-Produced Silicon Nanoparticle Growth and Crystallization Processes173-205 | | 4 |
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| 1 | Potential of Nanosized Ceramic Powder for Functional Applications. *Ceramic Engineering and Science Proceedings*,687-694 | 0.1 | 5 |