

# Xi-Wen Du

## List of Publications by Citations

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287  
papers

13,499  
citations

54  
h-index

107  
g-index

306  
ext. papers

15,734  
ext. citations

8.6  
avg, IF

6.67  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 287 | Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H <sub>2</sub> production. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3708-3717      | 35.4 | 903       |
| 286 | One-step synthesis of fluorescent carbon nanoparticles by laser irradiation. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 484-488  |      | 730       |
| 285 | Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1333-1353  | 15.6 | 646       |
| 284 | Superhydrophobic surfaces: are they really ice-repellent?. <i>Langmuir</i> , <b>2011</b> , 27, 25-9   | 4    | 475       |
| 283 | Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. <i>Nature Communications</i> , <b>2016</b> , 7, 12876  | 17.4 | 471       |
| 282 | Engineering oxygen vacancy on NiO nanorod arrays for alkaline hydrogen evolution. <i>Nano Energy</i> , <b>2018</b> , 43, 103-109  | 17.1 | 366       |
| 281 | N-doped graphene natively grown on hierarchical ordered porous carbon for enhanced oxygen reduction. <i>Advanced Materials</i> , <b>2013</b> , 25, 6226-31  | 24   | 358       |
| 280 | Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. <i>Nature Chemistry</i> , <b>2018</b> , 10, 149-154   | 17.6 | 328       |
| 279 | Identifying the Key Role of Pyridinic-N-Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800005   | 24   | 279       |
| 278 | Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. <i>Nature Communications</i> , <b>2017</b> , 8, 1509   | 17.4 | 276       |
| 277 | An Approach to Obtaining Homogeneously Dispersed Carbon Nanotubes in Al Powders for Preparing Reinforced Al-Matrix Composites. <i>Advanced Materials</i> , <b>2007</b> , 19, 1128-1132                            | 24   | 276       |
| 276 | Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO <sub>2</sub> to Formate. <i>Joule</i> , <b>2017</b> , 1, 794-805   | 27.8 | 263       |
| 275 | Stable aqueous dispersion of ZnO quantum dots with strong blue emission via simple solution route. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 16029-33                                  | 16.4 | 235       |
| 274 | Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604607  | 24   | 194       |
| 273 | Engineering NiO/NiFe LDH Intersection to Bypass Scaling Relationship for Oxygen Evolution Reaction via Dynamic Tridimensional Adsorption of Intermediates. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804769 | 24   | 176       |
| 272 | Ruthenium-Based Single-Atom Alloy with High Electrocatalytic Activity for Hydrogen Evolution. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803913   | 21.8 | 152       |
| 271 | Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807771          | 24   | 149       |

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|-----|---|------|-----|
| 270 | Highly ordered mesoporous Cr <sub>2</sub> O <sub>3</sub> materials with enhanced performance for gas sensors and lithium ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 865-7            | 5.8  | 141 |
| 269 | Atomic-level structure engineering of metal oxides for high-rate oxygen intercalation pseudocapacitance. <i>Science Advances</i> , <b>2018</b> , 4, eaau6261  | 14.3 | 130 |
| 268 | A silver catalyst activated by stacking faults for the hydrogen evolution reaction. <i>Nature Catalysis</i> , <b>2019</b> , 2, 1107-1114  | 36.5 | 128 |
| 267 | Morphology control of nanostructures via surface reaction of metal nanodroplets. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9814-9  | 16.4 | 125 |
| 266 | Fully Oxidized Ni <sub>3</sub> Fe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6027-6032                       | 13.1 | 112 |
| 265 | Hollow nanoparticles of metal oxides and sulfides: fast preparation via laser ablation in liquid. <i>Langmuir</i> , <b>2010</b> , 26, 16652-7   | 4    | 106 |
| 264 | Properties of Core/Shell Ni <sub>3</sub> Au Nanoparticles Synthesized through a Redox-Transmetalation Method in Reverse Microemulsion. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3399-3405          | 9.6  | 95  |
| 263 | A top-down strategy towards monodisperse colloidal lead sulphide quantum dots. <i>Nature Communications</i> , <b>2013</b> , 4, 1695   | 17.4 | 94  |
| 262 | Multiscale Structural Engineering of Ni-Doped CoO Nanosheets for Zinc-Air Batteries with High Power Density. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804653   | 24   | 93  |
| 261 | The icephobic performance of alkyl-grafted aluminum surfaces. <i>Soft Matter</i> , <b>2015</b> , 11, 856-61   | 3.6  | 88  |
| 260 | Copper nanoparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , <b>2018</b> , 9, 4614  | 17.4 | 86  |
| 259 | Engineering hierarchical nanotrees with CuCo <sub>2</sub> O <sub>4</sub> trunks and NiO branches for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5820-5828 | 13   | 84  |
| 258 | Freestanding Ultrathin Metallic Nanosheets: Materials, Synthesis, and Applications. <i>Advanced Materials</i> , <b>2015</b> , 27, 5396-402  | 24   | 83  |
| 257 | Ir <sub>2</sub> O <sub>3</sub> Catalytic Group in Ir-Doped Ni(OH) <sub>2</sub> for Overall Water Splitting. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1823-1829  | 20.1 | 83  |
| 256 | Top-Down Preparation of Active Cobalt Oxide Catalyst. <i>ACS Catalysis</i> , <b>2016</b> , 6, 6699-6703   | 13.1 | 83  |
| 255 | Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. <i>Advanced Science</i> , <b>2020</b> , 7, 1901614  | 13.6 | 81  |
| 254 | Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. <i>Nature Communications</i> , <b>2020</b> , 11, 83   | 17.4 | 75  |
| 253 | Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visible-Light Photoelectrochemical Hydrogen Evolution. <i>Advanced Materials</i> , <b>2016</b> , 28, 4935-42                 | 24   | 75  |

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|-----|---|------|----|
| 252 | Formation of crystalline Si nanodots in SiO <sub>2</sub> films by electron irradiation. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1108-1110  | 3.4  | 74 |
| 251 | Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. <i>Nature Catalysis</i> , <b>2020</b> , 3, 743-753  | 36.5 | 71 |
| 250 | Synthesis of hollow carbon nano-onions and their use for electrochemical hydrogen storage. <i>Carbon</i> , <b>2012</b> , 50, 3513-3521  | 10.4 | 70 |
| 249 | ZnS/ZnO Heteronanostructure as Photoanode to Enhance the Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 2380-2384                           | 3.8  | 70 |
| 248 | A novel method for making open cell aluminum foams by powder sintering process. <i>Materials Letters</i> , <b>2005</b> , 59, 3333-3336  | 3.3  | 70 |
| 247 | Laser-Prepared CuZn Alloy Catalyst for Selective Electrochemical Reduction of CO to Ethylene. <i>Langmuir</i> , <b>2018</b> , 34, 13544-13549   | 4    | 70 |
| 246 | Complete UV emission of ZnO nanoparticles in a PMMA matrix. <i>Semiconductor Science and Technology</i> , <b>2006</b> , 21, 1202-1206   | 1.8  | 69 |
| 245 | Low-temperature CVD synthesis of carbon-encapsulated magnetic Ni nanoparticles with a narrow distribution of diameters. <i>Carbon</i> , <b>2006</b> , 44, 2330-2333   | 10.4 | 68 |
| 244 | Laser synthesis of oxygen vacancy-modified CoOOH for highly efficient oxygen evolution. <i>Chemical Communications</i> , <b>2019</b> , 55, 2904-2907  | 5.8  | 66 |
| 243 | Deciphering the Cathode/Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801975  | 21.8 | 64 |
| 242 | Strongly Coupled CoO Nanoclusters/CoFe LDHs Hybrid as a Synergistic Catalyst for Electrochemical Water Oxidation. <i>Small</i> , <b>2018</b> , 14, e1800195   | 11   | 63 |
| 241 | Ti <sup>3+</sup> defect mediated g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> Z-scheme system for enhanced photocatalytic redox performance. <i>Applied Surface Science</i> , <b>2018</b> , 448, 288-296 | 6.7  | 63 |
| 240 | Stable Rhodium (IV) Oxide for Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908521  | 21   | 61 |
| 239 | Ionic liquid-assisted synthesis of N/S-double doped graphene microwires for oxygen evolution and Zn/Ni batteries. <i>Energy Storage Materials</i> , <b>2015</b> , 1, 17-24                                    | 19.4 | 59 |
| 238 | Co <sub>3</sub> O <sub>4</sub> Nanoparticles with Ultrasmall Size and Abundant Oxygen Vacancies for Boosting Oxygen Involved Reactions. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903444      | 15.6 | 59 |
| 237 | Gas-Phase Cation Exchange toward Porous Single-Crystal CoO Nanorods for Catalytic Hydrogen Production. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 352-357  | 9.6  | 58 |
| 236 | Zinc-Blende CdS Nanocubes with Coordinated Facets for Photocatalytic Water Splitting. <i>ACS Catalysis</i> , <b>2017</b> , 7, 1470-1477   | 13.1 | 56 |
| 235 | Carbon nanotubes and onions from methane decomposition using Ni/Al catalysts. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 97, 109-115  | 4.4  | 55 |

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|-----|--|------|----|
| 234 | Control of Cu-doping and optical properties of ZnO quantum dots by laser ablation of composite targets. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 130, 425-430  | 4.4  | 54 |
| 233 | Modest Oxygen-Defective Amorphous Manganese-Based Nanoparticle Mullite with Superior Overall Electrocatalytic Performance for Oxygen Reduction Reaction. <i>Small</i> , <b>2017</b> , 13, 1603903  | 11   | 53 |
| 232 | Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000482  | 24   | 53 |
| 231 | Ultrafine diamond synthesized by long-pulse-width laser. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 183115   | 3.4  | 53 |
| 230 | Pyrite nanorod arrays as an efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11828   | 13   | 52 |
| 229 | The efficient synthesis of carbon nano-onions using chemical vapor deposition on an unsupported NiBe alloy catalyst. <i>Carbon</i> , <b>2011</b> , 49, 1151-1158   | 10.4 | 51 |
| 228 | Bionic Design of a Mo(IV)-Doped FeS <sub>2</sub> Catalyst for Electroreduction of Dinitrogen to Ammonia. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4914-4921  | 13.1 | 50 |
| 227 | ZnFe <sub>2</sub> O <sub>4</sub> Leaves Grown on TiO <sub>2</sub> Trees Enhance Photoelectrochemical Water Splitting. <i>Small</i> , <b>2016</b> , 12, 3181-8  | 11   | 50 |
| 226 | Surface plasmon resonance enhanced visible-light-driven photocatalytic activity in Cu nanoparticles covered Cu <sub>2</sub> O microspheres for degrading organic pollutants. <i>Applied Surface Science</i> , <b>2016</b> , 366, 120-128 | 6.7  | 50 |
| 225 | Laser synthesis of gold/oxide nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1103-1106  |      | 50 |
| 224 | Low-temperature synthesis of carbon onions by chemical vapor deposition using a nickel catalyst supported on aluminum. <i>Scripta Materialia</i> , <b>2006</b> , 54, 689-693   | 5.6  | 50 |
| 223 | Enhanced electrochemical performance of LiFePO <sub>4</sub> cathode with in-situ chemical vapor deposition synthesized carbon nanotubes as conductor. <i>Journal of Power Sources</i> , <b>2012</b> , 220, 264-268                       | 8.9  | 49 |
| 222 | The formation of multiply twinning structure and photoluminescence of well-dispersed nanodiamonds produced by pulsed-laser irradiation. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 142-146                                 | 3.5  | 49 |
| 221 | 3D Aluminum Hybrid Plasmonic Nanostructures with Large Areas of Dense Hot Spots and Long-Term Stability. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605703  | 15.6 | 48 |
| 220 | Tuning the selectivity and activity of Au catalysts for carbon dioxide electroreduction via grain boundary engineering: a DFT study. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7184-7190                                | 13   | 48 |
| 219 | Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. <i>Joule</i> , <b>2020</b> , 4, 673-687  | 27.8 | 48 |
| 218 | Enhanced electrochemical hydrogen storage capacity of multi-walled carbon nanotubes by TiO <sub>2</sub> decoration. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 6739-6743  | 6.7  | 48 |
| 217 | Single crystalline Cu <sub>2</sub> ZnSnS <sub>4</sub> nanosheet arrays for efficient photochemical hydrogen generation. <i>RSC Advances</i> , <b>2015</b> , 5, 2543-2549   | 3.7  | 46 |

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|-----|---|------|----|
| 216 | Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. <i>Nature Communications</i> , <b>2016</b> , 7, 13335  | 17.4 | 46 |
| 215 | Scalable synthesis of hollow Cu <sub>2</sub> O nanocubes with unique optical properties via a simple hydrolysis-based approach. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 302-307  | 13   | 45 |
| 214 | Galvanic replacement reactions of active-metal nanoparticles. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 4234-41   | 4.8  | 45 |
| 213 | Direct synthesis of SiC nanowires by multiple reaction VS growth. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2007</b> , 136, 72-77  | 3.1  | 44 |
| 212 | Thermogravimetric analysis and TEM characterization of the oxidation and defect sites of carbon nanotubes synthesized by CVD of methane. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 473, 355-359 | 5.3  | 43 |
| 211 | A One-compartment direct glucose alkaline fuel cell with methyl viologen as electron mediator. <i>Applied Energy</i> , <b>2013</b> , 106, 176-183   | 10.7 | 42 |
| 210 | Laser dispersion of detonation nanodiamonds. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4099-4102   | 11.0 | 42 |
| 209 | Synthesis and Sensing Properties of ZnO/ZnS Nanocages. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 644-648   | 5    | 42 |
| 208 | Effects of anodizing conditions on anodic alumina structure. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 3878-3882  | 4.9  | 42 |
| 207 | Catalytically active and chemically inert CdInS coating on a CdS photoanode for efficient and stable water splitting. <i>Nanoscale</i> , <b>2017</b> , 9, 6296-6301   | 7.7  | 41 |
| 206 | Comparison of ZnO and TiO <sub>2</sub> nanowires for photoanode of dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 546, 307-313  | 5.7  | 41 |
| 205 | ZnO nanosheets with atomically thin ZnS overlayers for photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9057-9063   | 13   | 40 |
| 204 | Zn nanosheets coated with a ZnS subnanometer layer for effective and durable CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1418-1423  | 13   | 40 |
| 203 | NiO nanotubes assembled in pores of porous anodic alumina and their optical absorption properties. <i>Chemical Physics Letters</i> , <b>2008</b> , 454, 75-79   | 2.5  | 40 |
| 202 | Silver/Copper Interface for Relay Electroreduction of Carbon Dioxide to Ethylene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2763-2767   | 9.5  | 38 |
| 201 | CdS nanoflake arrays for highly efficient light trapping. <i>Advanced Materials</i> , <b>2015</b> , 27, 740-5   | 24   | 37 |
| 200 | Synthesis and characterization of Ag nanoparticles assembled in ordered array pores of porous anodic alumina by chemical deposition. <i>Materials Letters</i> , <b>2007</b> , 61, 3795-3797   | 3.3  | 37 |
| 199 | Porous Cobalt-Nickel Hydroxide Nanosheets with Active Cobalt Ions for Overall Water Splitting. <i>Small</i> , <b>2019</b> , 15, e1804832  | 11   | 36 |

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| 198 | Nanometre Ni and core/shell Ni/Au nanoparticles with controllable dimensions synthesized in reverse microemulsion. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 475, 494-500   | 5.7  | 36 |
| 197 | Hierarchical porous carbon with graphitic structure synthesized by a water soluble template method. <i>Materials Letters</i> , <b>2012</b> , 87, 77-79   | 3.3  | 35 |
| 196 | A practical method for the production of hollow carbon onion particles. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 425, 329-333  | 5.7  | 35 |
| 195 | In situ formation of Cu <sub>2</sub> ZrO <sub>2</sub> composites by chemical routes. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 425, 390-394   | 5.7  | 35 |
| 194 | Molybdenum Disulfide Modified by Laser Irradiation for Catalyzing Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6999-7003  | 8.3  | 33 |
| 193 | Identifying the descriptor governing NO oxidation on mullite Sm(Y, Tb, Gd, Lu)Mn <sub>2</sub> O <sub>5</sub> for diesel exhaust cleaning. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 3971-3975                               | 5.5  | 32 |
| 192 | Synthesis and growth mechanism of metal filled carbon nanostructures by CVD using Ni/Y catalyst supported on copper. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 456, 290-296   | 5.7  | 32 |
| 191 | Synthesis of carbon nanotubes and carbon onions by CVD using a Ni/Y catalyst supported on copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 475, 136-140 | 5.3  | 32 |
| 190 | Thermally driven mesoscale chemomechanical interplay in Li <sub>0.5</sub> Ni <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> cathode materials. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23055-23061     | 13   | 32 |
| 189 | Arrays of Ultrathin CdS Nanoflakes with High-Energy Surface for Efficient Gas Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 602-609  | 9.5  | 31 |
| 188 | Highly Conductive CdS Inverse Opals for Photochemical Solar Cells. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 707-715  | 15.6 | 31 |
| 187 | Intensive light emission from SiCN films by reactive RF magnetron sputtering. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 103, 456-460  | 4.4  | 31 |
| 186 | Laser-induced oxygen vacancies in FeCoO nanoparticles for boosting oxygen evolution and reduction. <i>Chemical Communications</i> , <b>2019</b> , 55, 8579-8582  | 5.8  | 30 |
| 185 | P-type CoO nanowire arrays and their application in quantum dot-sensitized solar cells. <i>RSC Advances</i> , <b>2013</b> , 3, 1217-1221   | 3.7  | 30 |
| 184 | Tuning Spin State of Rock-Salt-Based Oxides by Manipulation of Crystallinity for Efficient Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703469  | 21.8 | 30 |
| 183 | Localized Defects on Copper Sulfide Surface for Enhanced Plasmon Resonance and Water Splitting. <i>Small</i> , <b>2017</b> , 13, 1700867   | 11   | 29 |
| 182 | The influences of synthesis temperature and Ni catalyst on the growth of carbon nanotubes by chemical vapor deposition. <i>Materials Letters</i> , <b>2008</b> , 62, 1472-1475   | 3.3  | 29 |
| 181 | Effect of Y <sub>2</sub> O <sub>3</sub> on the mechanical properties of open cell aluminum foams. <i>Materials Letters</i> , <b>2006</b> , 60, 1665-1668   | 3.3  | 29 |

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| 180 | Influence of surface SiAg bonds on photoluminescence of porous silicon. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 063512  | 2.5  | 29 |
| 179 | Improved visible photoluminescence from porous silicon with surface SiAg bonds. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 171905  | 3.4  | 29 |
| 178 | Effects of alloying elements on creep of TiAl alloys with a fine lamellar structure. <i>Acta Materialia</i> , <b>2002</b> , 50, 1307-1318  | 8.4  | 29 |
| 177 | Cuprous ions embedded in ceria lattice for selective and stable electrochemical reduction of carbon dioxide to ethylene. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9373-9377  | 13   | 28 |
| 176 | The effect of post-annealing on the conversion efficiency of solar cells sensitized by CdS quantum dots. <i>Semiconductor Science and Technology</i> , <b>2010</b> , 25, 045031  | 1.8  | 28 |
| 175 | Fabrication and properties of carbon nanotubes reinforced Fe/hydroxyapatite composites by in situ chemical vapor deposition. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2008</b> , 39, 1128-1132                           | 8.4  | 28 |
| 174 | Synthesis of carbon nanostructures with different morphologies by CVD of methane. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 460-461, 255-260                 | 5.3  | 28 |
| 173 | Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. <i>Nature Communications</i> , <b>2020</b> , 11, 3685   | 17.4 | 28 |
| 172 | A stable inverse opal structure of cadmium chalcogenide for efficient water splitting. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18521-18527  | 13   | 27 |
| 171 | A Hydrogen-Deficient Nickel-Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11510-11515   | 16.4 | 26 |
| 170 | Facile synthesis of three dimensional CdS nanoflowers with high photocatalytic performance. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 656, 972-977  | 5.7  | 26 |
| 169 | Low-temperature synthesis of ZnO/CdS hierarchical nanostructure for photovoltaic application. <i>Nanoscale</i> , <b>2012</b> , 4, 5602-7   | 7.7  | 26 |
| 168 | Fabrication of carbon-coated cobalt nanoparticles by the catalytic method. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 458, 130-133   | 5.7  | 26 |
| 167 | Fabrication of aluminum matrix composites with enhanced mechanical properties reinforced by in situ generated MgAl <sub>2</sub> O <sub>4</sub> whiskers. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2012</b> , 43, 631-634 | 8.4  | 25 |
| 166 | On the origin of blue emission from ZnO quantum dots synthesized by a sol-gel route. <i>Semiconductor Science and Technology</i> , <b>2012</b> , 27, 065020  | 1.8  | 25 |
| 165 | Fabrication and growth mechanism of Ni-filled carbon nanotubes by the catalytic method. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 465, 51-55  | 5.7  | 25 |
| 164 | Lattice-strained palladium nanoparticles as active catalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , <b>2019</b> , 55, 3121-3123   | 5.8  | 25 |
| 163 | Photochemical Synthesis of Ultrafine Cubic Boron Nitride Nanoparticles under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7051-4   | 16.4 | 24 |



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|-----|--|------|----|
| 162 | Microstructure and properties of in situ generated MgAl <sub>2</sub> O <sub>4</sub> spinel whisker reinforced aluminum matrix composites. <i>Materials &amp; Design</i> , <b>2013</b> , 46, 724-730  |      | 23 |
| 161 | Improve photo-electron conversion efficiency of ZnO/CdS coaxial nanorods by p-type CdTe coating. <i>Nanotechnology</i> , <b>2012</b> , 23, 485401  | 3.4  | 23 |
| 160 | ZnO hierarchical nanostructures and application on high-efficiency dye-sensitized solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2010</b> , 166, 196-202  | 3.1  | 23 |
| 159 | Bond-Energy-Integrated Descriptor for Oxygen Electrocatalysis of Transition Metal Oxides. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3387-3391  | 6.4  | 22 |
| 158 | Face-centered-cubic Si nanocrystals prepared by microsecond pulsed laser ablation. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 013518   | 2.5  | 22 |
| 157 | Single-crystal ZnO flocky sphere formed by three-dimensional oriented attachment of nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 880-883   | 3.9  | 22 |
| 156 | Laser-Generated Grain Boundaries in Ruthenium Nanoparticles for Boosting Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 12575-12581   | 13.1 | 22 |
| 155 | High-performance glucose fuel cell with bimetallic NiCo composite anchored on reduced graphene oxide as anode catalyst. <i>Renewable Energy</i> , <b>2020</b> , 155, 1118-1126   | 8.1  | 22 |
| 154 | Spongy structure of CdS nanocrystals decorated with dye molecules for semiconductor sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2883   |      | 21 |
| 153 | One-step synthesis of MgO hollow nanospheres with blue emission. <i>Nanotechnology</i> , <b>2010</b> , 21, 295604  | 3.4  | 21 |
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| 151 | Iridium Oxide Modified with Silver Single Atom for Boosting Oxygen Evolution Reaction in Acidic Media. <i>ACS Energy Letters</i> , 1588-1595   | 20.1 | 21 |
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| 143 | Controlling surface states and photoluminescence of porous silicon by low-energy-ion irradiation. <i>Applied Surface Science</i> , <b>2008</b> , 254, 2479-2482  | 6.7  | 19 |
| 142 | Low-temperature synthesis of aluminum borate nanowhiskers on the surface of aluminum powder promoted by ball-milling pretreatment. <i>Powder Technology</i> , <b>2011</b> , 212, 310-315   | 5.2  | 18 |
| 141 | Template synthesis and photovoltaic application of CdS nanotube arrays. <i>Semiconductor Science and Technology</i> , <b>2012</b> , 27, 055017   | 1.8  | 18 |
| 140 | Single-Crystal ZnO Cup Based on Hydrothermal Decomposition Route. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3863-3867  | 3.8  | 18 |
| 139 | The evolution of microstructure and photoluminescence of SiCN films with annealing temperature. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 093503   | 2.5  | 18 |
| 138 | Boosting reversible oxygen electrocatalysis with enhanced interfacial pyridinic-N-Co bonding in cobalt oxide/mesoporous N-doped graphene hybrids. <i>Nanoscale</i> , <b>2018</b> , 10, 22140-22147   | 7.7  | 18 |
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| 113 | Performance comparison of dye-sensitized solar cells with different ZnO photoanodes. <i>Semiconductor Science and Technology</i> , <b>2011</b> , 26, 105001   | 1.8  | 13 |
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| 38 | Engineering hollow electrodes for hybrid solar cells for efficient light harvesting and carrier collection. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17260-17266  | 13   | 3 |
| 37 | In situ synthesis of highly-active Pt nanoclusters via thermal decomposition for high-temperature catalytic reactions. <i>RSC Advances</i> , <b>2016</b> , 6, 49777-49781   | 3.7  | 3 |

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| 35 | Synthesis of SiC nanostructures by laser ablation of silicon target in n-heptane vapor. <i>Materials Letters</i> , <b>2009</b> , 63, 2492-2494  | 3.3  | 3 |
| 34 | Synthesis of Carbon Encapsulated Nickel Nanoparticles by Laser Ablation in Liquid. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 110-116, 5487-5494  | 0.3  | 3 |
| 33 | Electroreduction of Carbon Dioxide in Metallic Nanopores through a Pincer Mechanism. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19459-19465  | 3.6  | 3 |
| 32 | Graphene Hybrids: Identifying the Key Role of Pyridinic-NiO Bonding in Synergistic Electrocatalysis for Reversible ORR/OER (Adv. Mater. 23/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870164   | 2.4  | 3 |
| 31 | Surface Valence State Effect of MoO on Electrochemical Nitrogen Reduction.. <i>Advanced Science</i> , <b>2022</b> , e2104857  | 13.6 | 3 |
| 30 | Electrocatalysis: Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction (Adv. Mater. 16/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970113 | 2.4  | 2 |
| 29 | Testing the Durability of Anti-Icing Coatings <b>2020</b> , 495-519   |      | 2 |
| 28 | Direct Conversion of Bulk Metals to Size-Tailored, Monodisperse Spherical Non-Coinage-Metal Nanocrystals. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4869-4873   | 3.6  | 2 |
| 27 | One Step Growth of Semiconductor CdS Uniform Branched Nanowire on FTO. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 472, 744-749  | 0.3  | 2 |
| 26 | Structure and photoluminescence of SiC/ZnO nanocomposites prepared by radio frequency alternate sputtering. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 6657-6660   | 4.3  | 2 |
| 25 | High-density SiC nanocrystals with strong photoluminescence via a nitrogen-loss route. <i>Semiconductor Science and Technology</i> , <b>2008</b> , 23, 035015   | 1.8  | 2 |
| 24 | Hybrid nanocomposite of Fe nanoparticles on SiO <sub>2</sub> nanowires by sublimation route. <i>Materials Letters</i> , <b>2007</b> , 61, 3783-3786   | 3.3  | 2 |
| 23 | Creep-induced phase transformations in a Ti-Al alloy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2002</b> , 82, 39-50  |      | 2 |
| 22 | Epitaxial Growth of High-Energy Copper Facets for Promoting Hydrogen Evolution Reaction.. <i>Small</i> , <b>2022</b> , e2107481   | 11   | 2 |
| 21 | Hierarchical, Ultrathin Single-Crystal Nanowires of CdS Conveniently Produced in Laser-Induced Thermal Field. <i>Langmuir</i> , <b>2015</b> , 31, 8162-7  | 4    | 1 |
| 20 | Near-infrared graded-index antireflection coating from ZnSe hollow nanospheres. <i>Materials Letters</i> , <b>2018</b> , 222, 21-24   | 3.3  | 1 |
| 19 | ZnSe hollow nanospheres in mechanically stable near-IR antireflection coatings for ZnSe substrates. <i>Nanotechnology</i> , <b>2016</b> , 27, 365604  | 3.4  | 1 |



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| 18 | Microwave activated gold nanoparticles for catalytic growth of monocrystal CdSe nanowires in solution. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 14822-14825   | 3.6  | 1 |
| 17 | TiO <sub>2</sub> cellular-protected nanowire array fabricated super-rapidly by the precipitation of colloids in the nanopores. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13820   |      | 1 |
| 16 | Decolorization of methylene blue in aqueous suspensions of gold nanoparticles using parallel nanosecond pulsed laser. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2013</b> , 48, 1583-91 | 2.3  | 1 |
| 15 | Preferential growth of Si nanocrystals in SiO <sub>2</sub> /Si/SiO <sub>2</sub> sandwich structure. <i>Journal of Crystal Growth</i> , <b>2007</b> , 305, 59-62  | 1.6  | 1 |
| 14 | Preparation of 3YSZ/Cu composite by in-situ chemical route. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 5671-5675  | 4.9  | 1 |
| 13 | Blue-light emission from porous silicon induced by laser irradiation. <i>Materials Letters</i> , <b>2005</b> , 59, 2394-2397   | 3.3  | 1 |
| 12 | Phase transformation in fractured high temperature stress rupture Ti-48Al-2Nb(at.%). <i>Journal of Materials Science</i> , <b>2000</b> , 35, 4501-4505   | 4.3  | 1 |
| 11 | Polycrystalline CoO <sub>9</sub> S <sub>8</sub> Heterostructure Nanoneedle Arrays as Bifunctional Catalysts for Efficient Overall Water Splitting. <i>ChemElectroChem</i> , <b>2022</b> , 9,   | 4.3  | 1 |
| 10 | Distribution of alkali cations near the Cu (111) surface in aqueous solution. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24428-24437   | 13   | 1 |
| 9  | Spheroidization of Nickel Powder and Coating with Carbon Layer through Laser Heating. <i>Materials</i> , <b>2018</b> , 11,   | 3.5  | 1 |
| 8  | Oxidized single nickel atoms embedded in Ru matrix for highly efficient hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 874, 159909  | 5.7  | 1 |
| 7  | Fine regulation of electron transfer in Ag@CoO nanoparticles for boosting the oxygen evolution reaction. <i>Chemical Communications</i> , <b>2021</b> , 57, 6284-6287  | 5.8  | 1 |
| 6  | Metal-Confined Synthesis of ZnS <sub>2</sub> Monolayer Catalysts for Dinitrogen Electroreduction. <i>ACS Catalysis</i> , <b>2022</b> , 12, 6809-6815   | 13.1 | 0 |
| 5  | Nanoflake Arrays: CdS Nanoflake Arrays for Highly Efficient Light Trapping (Adv. Mater. 4/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 772-772   | 24   |   |
| 4  | Photocatalytic Degradation of 2,4,5-CP in TiO <sub>2</sub> /UV/H <sub>2</sub> O <sub>2</sub> System. <i>Advanced Materials Research</i> , <b>2012</b> , 518-523, 2649-2652   | 0.5  |   |
| 3  | The effect of sputtering deposition rate on the agglomeration and crystallization of Si clusters. <i>Materials Letters</i> , <b>2007</b> , 61, 4079-4082   | 3.3  |   |
| 2  | Water Splitting: Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visible-Light Photoelectrochemical Hydrogen Evolution (Adv. Mater. 24/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 4943  | 24   |   |
| 1  | Self-Supporting Copper Electrode Prepared by Ultrasonic Impact for Hydrogen Evolution Reaction. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165283  | 5.7  |   |

