# Wuzong Zhou

## List of Publications by Citations



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|---|---|---|---|
| 305 papers | 15,371 citations | 66 h-index | 111 g-index |
| 329 ext. papers | 16,584 ext. citations | 7 avg, IF | 6.51 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 305 | Trititanate Nanotubes Made via a Single Alkali Treatment. *Advanced Materials*, **2002**, 14, 1208-1211 | 24 | 755 |
| 304 | Metal-Organic-Framework-Derived Hybrid Carbon Nanocages as a Bifunctional Electrocatalyst for Oxygen Reduction and Evolution. *Advanced Materials*, **2017**, 29, 1700874 | 24 | 518 |
| 303 | Cubic mesoporous silica with large controllable entrance sizes and advanced adsorption properties. *Angewandte Chemie - International Edition*, **2003**, 42, 3146-50 | 16.4 | 446 |
| 302 | Alumination and Ion Exchange of Mesoporous SBA-15 Molecular Sieves. *Chemistry of Materials*, **1999**, 11, 1621-1627 | 9.6 | 356 |
| 301 | Mesopore Molecular Sieve MCM-41 Containing Framework Aluminum. *The Journal of Physical Chemistry*, **1995**, 99, 1018-1024 | | 341 |
| 300 | Disruption of extended defects in solid oxide fuel cell anodes for methane oxidation. *Nature*, **2006**, 439, 568-71 | 50.4 | 329 |
| 299 | Formation mechanism of H2Ti3O7 nanotubes. *Physical Review Letters*, **2003**, 91, 256103 | 7.4 | 308 |
| 298 | Nanoscale microelectrochemical cells on carbon nanotubes. *Small*, **2007**, 3, 1513-7 | 11 | 270 |
| 297 | Low-temperature strategy to synthesize highly ordered mesoporous silicas with very large pores. *Journal of the American Chemical Society*, **2005**, 127, 10794-5 | 16.4 | 232 |
| 296 | A Reliable Synthesis of Cubic Mesoporous MCM-48 Molecular Sieve. *Chemistry of Materials*, **1998**, 10, 3690-3698 | 9.6 | 203 |
| 295 | Formation Mechanism of Porous Anodic Aluminium and Titanium Oxides. *Advanced Materials*, **2008**, 20, 3663-3667 | 24 | 189 |
| 294 | Formation, structure, and stability of titanate nanotubes and their proton conductivity. *Journal of Physical Chemistry B*, **2005**, 109, 5439-44 | 3.4 | 188 |
| 293 | Photoluminescence Tuning via Cation Substitution in Oxonitridosilicate Phosphors: DFT Calculations, Different Site Occupations, and Luminescence Mechanisms. *Chemistry of Materials*, **2014**, 26, 2991-3001 | 9.6 | 183 |
| 292 | Formation mechanism of CaTiO3 hollow crystals with different microstructures. *Journal of the American Chemical Society*, **2010**, 132, 14279-87 | 16.4 | 177 |
| 291 | Chemically blockable transformation and ultraselective low-pressure gas adsorption in a non-porous metal organic framework. *Nature Chemistry*, **2009**, 1, 289-94 | 17.6 | 176 |
| 290 | Formation Mechanism of Porous Single-Crystal Cr2O3 and Co3O4 Templated by Mesoporous Silica. *Chemistry of Materials*, **2006**, 18, 3088-3095 | 9.6 | 176 |
| 289 | Self-construction of core-shell and hollow zeolite analcime icositetrahedra: a reversed crystal growth process via oriented aggregation of nanocrystallites and recrystallization from surface to core. *Journal of the American Chemical Society*, **2007**, 129, 13305-12 | 16.4 | 163 |

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| 288 | Preparation of three-dimensional chromium oxide porous single crystals templated by SBA-15. *Chemical Communications*, **2003**, 98-9 | 5.8 | 163 |
| 287 | Formation, morphology control and applications of anodic TiO2 nanotube arrays. *Journal of Materials Chemistry*, **2011**, 21, 8955 | | 162 |
| 286 | Polymerized carbon nanobells and their field-emission properties. *Applied Physics Letters*, **1999**, 75, 3105-3107 | 3.4 | 154 |
| 285 | Structural Ordering and Charge Variation Induced by Cation Substitution in (Sr,Ca)AlSiN3:Eu Phosphor. *Journal of the American Chemical Society*, **2015**, 137, 8936-9 | 16.4 | 151 |
| 284 | Synthesis and Characterization of the Mesoporous Silicate Molecular Sieve MCM-48. *Journal of Physical Chemistry B*, **1997**, 101, 5294-5300 | 3.4 | 146 |
| 283 | Cell-targeting multifunctional nanospheres with both fluorescence and magnetism. *Small*, **2005**, 1, 506-9 | 11 | 136 |
| 282 | Enhanced Photoluminescence Emission and Thermal Stability from Introduced Cation Disorder in Phosphors. *Journal of the American Chemical Society*, **2017**, 139, 11766-11770 | 16.4 | 134 |
| 281 | Site-Directed Surface Derivatization of MCM-41: Use of High-Resolution Transmission Electron Microscopy and Molecular Recognition for Determining the Position of Functionality within Mesoporous Materials. *Angewandte Chemie - International Edition*, **1998**, 37, 2719-2723 | 16.4 | 134 |
| 280 | Direct preparation of nanoporous carbon by nanocasting. *Journal of the American Chemical Society*, **2003**, 125, 3444-5 | 16.4 | 131 |
| 279 | Syntheses, Li Insertion, and Photoactivity of Mesoporous Crystalline TiO2. *Advanced Functional Materials*, **2009**, 19, 2826-2833 | 15.6 | 129 |
| 278 | Effect of structural aluminium on the mesoporous structure of MCM-41. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 2955 | | 125 |
| 277 | Growth of porous single-crystal Cr2O3 in a 3-D mesopore system. *Chemical Communications*, **2005**, 5618-20 | 3.8 | 124 |
| 276 | Crystal structure and growth mechanism of unusually long fullerene (C60) nanowires. *Journal of the American Chemical Society*, **2008**, 130, 2527-34 | 16.4 | 122 |
| 275 | Bimetallic Nanoparticle Catalysts Anchored Inside Mesoporous Silica. *Angewandte Chemie International Edition in English*, **1997**, 36, 2242-2245 | | 118 |
| 274 | Recyclable polyurea-microencapsulated Pd(0) nanoparticles: an efficient catalyst for hydrogenolysis of epoxides. *Organic Letters*, **2003**, 5, 4665-8 | 6.2 | 115 |
| 273 | Early stage reversed crystal growth of zeolite A and its phase transformation to sodalite. *Journal of the American Chemical Society*, **2009**, 131, 17986-92 | 16.4 | 114 |
| 272 | Zeolite GdNaY nanoparticles with very high relaxivity for application as contrast agents in magnetic resonance imaging. *Chemistry - A European Journal*, **2002**, 8, 5121-31 | 4.8 | 113 |
| 271 | A three-dimensional Mn3O4 network supported on a nitrogenated graphene electrocatalyst for efficient oxygen reduction reaction in alkaline media. *Journal of Materials Chemistry A*, **2014**, 2, 14493-14501 | 13 | 111 |

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| 270 | Controllable selective exfoliation of high-quality graphene nanosheets and nanodots by ionic liquid assisted grinding. *Chemical Communications*, **2012**, 48, 1877-9 | 5.8 | 111 |
| 269 | Synthesis and Characterization of the Gallosilicate Mesoporous Molecular Sieve MCM-41. *The Journal of Physical Chemistry*, **1996**, 100, 390-396 | | 111 |
| 268 | Mesoporous Monocrystalline TiO2 and Its Solid-State Electrochemical Properties. *Chemistry of Materials*, **2009**, 21, 2540-2546 | 9.6 | 107 |
| 267 | Structural elucidation of microporous and mesoporous catalysts and molecular sieves by high-resolution electron microscopy. *Accounts of Chemical Research*, **2001**, 34, 583-94 | 24.3 | 107 |
| 266 | Crystalline WO3 nanowires synthesized by templating method. *Chemical Physics Letters*, **2003**, 377, 317-321 | 2.5 | 106 |
| 265 | Crystalline mesoporous metal oxide. *Progress in Natural Science: Materials International*, **2008**, 18, 1329-1338 | 3.6 | 102 |
| 264 | Controlling the channel diameter of the mesoporous molecularsieve MCM-41. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 359-363 | | 99 |
| 263 | Porous crystals of cubic metal oxides templated by cage-containing mesoporous silica. *Journal of Materials Chemistry*, **2007**, 17, 4947 | | 99 |
| 262 | **2013**, | | 97 |
| 261 | Structural, thermal and electrochemical properties of layered perovskite SmBaCo2O5+d, a potential cathode material for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2009**, 194, 704-711 | 8.9 | 96 |
| 260 | Green Light-Excitable Ce-Doped Nitridomagnesoaluminate Sr[Mg2Al2N4] Phosphor for White Light-Emitting Diodes. *Chemistry of Materials*, **2016**, 28, 6822-6825 | 9.6 | 95 |
| 259 | Synthesis and field-emission behavior of highly oriented boron carbonitride nanofibers. *Applied Physics Letters*, **2000**, 76, 2624-2626 | 3.4 | 93 |
| 258 | Synthesis and characterization of hybrid organic/inorganic nanotubes of the imogolite type and their behaviour towards methane adsorption. *Physical Chemistry Chemical Physics*, **2011**, 13, 744-50 | 3.6 | 91 |
| 257 | Cubic Mesoporous Silica with Large Controllable Entrance Sizes and Advanced Adsorption Properties. *Angewandte Chemie*, **2003**, 115, 3254-3258 | 3.6 | 91 |
| 256 | Chemical Pressure Control for Photoluminescence of MSiAl2O3N2:Ce3+/Eu2+ (M = Sr, Ba) Oxynitride Phosphors. *Chemistry of Materials*, **2014**, 26, 2075-2085 | 9.6 | 87 |
| 255 | Mesoporous single-crystal Co3O4 templated by cage-containing mesoporous silica. *Chemical Communications*, **2007**, 2518-20 | 5.8 | 87 |
| 254 | Investigation of the pore formation in anodic aluminium oxide. *Journal of Materials Chemistry*, **2008**, 18, 5787 | | 84 |
| 253 | Zeolites with continuously tuneable porosity. *Angewandte Chemie - International Edition*, **2014**, 53, 13210-4 | 11.4 | 82 |

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| 252 | Synthesis of Periodic Mesoporous Ethylenesilica under Acidic Conditions. *Chemistry of Materials*, **2004**, 16, 1756-1762 | 9.6 | 82 |
| 251 | Synthesis, structure solution, characterization, and catalytic properties of TNU-10: a high-silica zeolite with the STI topology. *Journal of the American Chemical Society*, **2004**, 126, 5817-26 | 16.4 | 81 |
| 250 | Unique hole-accepting carbon-dots promoting selective carbon dioxide reduction nearly 100% to methanol by pure water. *Nature Communications*, **2020**, 11, 2531 | 17.4 | 78 |
| 249 | Layered Intergrowth Phases Bi4MO8X (X=Cl, M=Ta and X=Br, M=Ta or Nb): Structural and Electrophysical Characterization. *Journal of Solid State Chemistry*, **2002**, 166, 148-157 | 3.3 | 76 |
| 248 | Reversed crystal growth: implications for crystal engineering. *Advanced Materials*, **2010**, 22, 3086-92 | 24 | 74 |
| 247 | Cubes of zeolite A with an amorphous core. *Angewandte Chemie - International Edition*, **2008**, 47, 8397-9 | 16.4 | 74 |
| 246 | Highly efficient catalysts for the hydrogenation of nitro-substituted aromatics. *Chemical Communications*, **2005**, 2026-8 | 5.8 | 73 |
| 245 | Synthesis of Periodic Mesoporous Phenylenesilica under Acidic Conditions with Novel Molecular Order in the Pore Walls. *Chemistry of Materials*, **2003**, 15, 4886-4889 | 9.6 | 71 |
| 244 | Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. *Angewandte Chemie - International Edition*, **2016**, 55, 6433-7 | 16.4 | 71 |
| 243 | Control of Luminescence by Tuning of Crystal Symmetry and Local Structure in Mn -Activated Narrow Band Fluoride Phosphors. *Angewandte Chemie - International Edition*, **2018**, 57, 1797-1801 | 16.4 | 70 |
| 242 | New insight into the soot nanoparticles in a candle flame. *Chemical Communications*, **2011**, 47, 4700-2 | 5.8 | 70 |
| 241 | Ternary CdS/Au/3DOM-SrTiO 3 composites with synergistic enhancement for hydrogen production from visible-light photocatalytic water splitting. *Applied Catalysis B: Environmental*, **2017**, 215, 74-84 | 21.8 | 67 |
| 240 | 3D to 2D Routes to Ultrathin and Expanded Zeolitic Materials. *Chemistry of Materials*, **2013**, 25, 542-547 | 9.6 | 66 |
| 239 | Highly active mesostructured silica hosted silver catalysts for CO oxidation using the one-pot synthesis approach. *Chemical Communications*, **2008**, 2677-9 | 5.8 | 66 |
| 238 | Zeolite nanocrystals inside mesoporous TUD-1: a high-performance catalytic composite. *Chemistry - A European Journal*, **2004**, 10, 4970-6 | 4.8 | 66 |
| 237 | Formation, microstructures and crystallization of anodic titanium oxide tubular arrays. *Journal of Materials Chemistry*, **2009**, 19, 2301 | | 65 |
| 236 | Imaging the Pore Structure and Polytypic Intergrowths in Mesoporous Silica. *Journal of Physical Chemistry B*, **1998**, 102, 6933-6936 | 3.4 | 65 |
| 235 | Single-template synthesis of zeolite ZSM-5 composites with tunable mesoporosity. *Chemical Communications*, **2007**, 4653-5 | 5.8 | 65 |

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| 234 | Hierarchical interlinked structure of titanium oxide nanofibers. *Chemical Communications*, **2002**, 1202-3 | 5.8 | 65 |
| 233 | Multiple Nucleation and Crystal Growth of Barium Titanate. *Crystal Growth and Design*, **2012**, 12, 1247-1253 | 3.9 | 61 |
| 232 | Structural studies on W6+ and Nd3+ substituted La2Mo2O9 materials. *Journal of Solid State Chemistry*, **2006**, 179, 278-288 | 3.3 | 61 |
| 231 | Direct observation of growth defects in zeolite beta. *Journal of the American Chemical Society*, **2005**, 127, 494-5 | 16.4 | 60 |
| 230 | One-step synthesis of bismuth telluride nanosheets of a few quintuple layers in thickness. *Angewandte Chemie - International Edition*, **2011**, 50, 10397-401 | 16.4 | 59 |
| 229 | NMR Transversal Relaxivity of Suspensions of Lanthanide Oxide Nanoparticles. *Journal of Physical Chemistry C*, **2007**, 111, 10240-10246 | 3.8 | 59 |
| 228 | Synthesis, modification and characterization of K4Nb6O17-type nanotubes. *Journal of Materials Chemistry*, **2004**, 14, 1437 | | 58 |
| 227 | The 'silica garden': a hierarcharical nanostructure. *Chemical Physics Letters*, **1998**, 286, 88-92 | 2.5 | 57 |
| 226 | Preparation and characterization of three-dimensional mesoporous crystals of tungsten oxide. *Chemical Physics Letters*, **2005**, 407, 83-86 | 2.5 | 57 |
| 225 | Ferroelectric Properties and Crystal Structure of the Layered Intergrowth Phase Bi3Pb2Nb2O11Cl. *Chemistry of Materials*, **2001**, 13, 4731-4737 | 9.6 | 57 |
| 224 | Synthesis and structural studies of the perovskite-related compound YBaCo2O5 + x. *Advanced Materials*, **1993**, 5, 735-738 | 24 | 56 |
| 223 | Dissociation of water during formation of anodic aluminum oxide. *Journal of the American Chemical Society*, **2009**, 131, 8697-702 | 16.4 | 55 |
| 222 | Wheat germ agglutinin-modified trifunctional nanospheres for cell recognition. *Bioconjugate Chemistry*, **2007**, 18, 1749-55 | 6.3 | 55 |
| 221 | Directing the pore dimensions in the mesoporous molecular sieve MCM-41. *Chemical Physics Letters*, **1996**, 263, 247-252 | 2.5 | 55 |
| 220 | Blue Emission by Interstitial Site Occupation of Ce3+ in AlN. *Chemistry of Materials*, **2012**, 24, 3486-3492 | 9.6 | 52 |
| 219 | Defect fluorite-related superstructures in the Bi2O3?V2O5 system. *Journal of Solid State Chemistry*, **1988**, 76, 290-300 | 3.3 | 52 |
| 218 | Ru/TiO2-catalysed hydrogenation of xylose: the role of the crystal structure of the support. *Catalysis Science and Technology*, **2016**, 6, 577-582 | 5.5 | 51 |
| 217 | Structural chemistry and physical properties of some ternary oxides in the Bi2O3Ta2O5 system. *Journal of Solid State Chemistry*, **1992**, 101, 1-17 | 3.3 | 51 |

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| 216 | Asymmetric Oxygen Vacancies: the Intrinsic Redox Active Sites in Metal Oxide Catalysts. *Advanced Science*, **2020**, 7, 1901970 | 13.6 | 51 |
| 215 | Anodic formation of nanoporous and nanotubular metal oxides. *Journal of Materials Chemistry*, **2012**, 22, 535-544 | | 50 |
| 214 | Facile synthesis of ZSM-5 composites with hierarchical porosity. *Journal of Materials Chemistry*, **2008**, 18, 468-474 | | 50 |
| 213 | Robust Antiferromagnetism and Structural Disorder in BixCa1FeO3 Perovskites. *Chemistry of Materials*, **2009**, 21, 2085-2093 | 9.6 | 49 |
| 212 | Chlorine-Enabled Electron Doping in Solution-Synthesized SnSe Thermoelectric Nanomaterials. *Advanced Energy Materials*, **2017**, 7, 1602328 | 21.8 | 48 |
| 211 | Cyclohexanol dehydrogenation over Co/carbon nanotube catalysts and the effect of promoter K on performance. *Catalysis Letters*, **2001**, 72, 203-206 | 2.8 | 48 |
| 210 | High-resolution imaging of nanoparticle bimetallic catalysts supported on mesoporous silica. *Catalysis Letters*, **1999**, 60, 113-120 | 2.8 | 48 |
| 209 | Superlattices in ternary oxides derived from bismuth oxide (Bi2O3): new families of ordered phases based on the fluorite structure. *The Journal of Physical Chemistry*, **1987**, 91, 512-514 | | 47 |
| 208 | A novel ordered cubic mesoporous silica templated with tri-head group quaternary ammonium surfactant. *Chemical Communications*, **2002**, 2212-3 | 5.8 | 46 |
| 207 | Temperature-dependent Raman scattering of silicon nanowires. *Journal of Physical Chemistry B*, **2006**, 110, 1229-34 | 3.4 | 45 |
| 206 | Co/carbon-nanotube monometallic system: the effects of oxidation by nitric acid. *Physical Chemistry Chemical Physics*, **2001**, 3, 2518-2521 | 3.6 | 45 |
| 205 | Transformation of lamellar silicate into the mesoporous molecular sieve MCM-41. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 979-983 | | 44 |
| 204 | Structural Chemistry and Conductivity of a Solid Solution of YBa1-xSrxCo2O5+*Journal of Physical Chemistry C*, **2007**, 111, 19120-19125 | 3.8 | 43 |
| 203 | TUD-C: A tunable, hierarchically structured mesoporous zeolite composite. *Microporous and Mesoporous Materials*, **2009**, 120, 19-28 | 5.3 | 42 |
| 202 | The mechanism of channel formation in the mesoporous molecular sieve MCM-41. *Chemical Physics Letters*, **1998**, 292, 207-212 | 2.5 | 42 |
| 201 | One-step synthesis and shape-control of CuPd nanowire networks. *Nanoscale*, **2014**, 6, 1093-8 | 7.7 | 41 |
| 200 | High-Activity Heterogeneous Catalysts Prepared in One Step from the Mesophases of Metallosurfactants. *Catalysis Letters*, **2002**, 82, 95-98 | 2.8 | 41 |
| 199 | Gadolinium(III)-loaded nanoparticulate zeolites as potential high-field MRI contrast agents: relationship between structure and relaxivity. *Chemistry - A European Journal*, **2005**, 11, 4799-807 | 4.8 | 40 |

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| 198 | A novel morphology of mesoporous molecular sieve MCM-41. *Chemical Physics Letters*, **2001**, 333, 427-432 | 2.5 | 40 |
| 197 | Controlling of Structural Ordering and Rigidity of β-SiAlON:Eu through Chemical Cosubstitution to Approach Narrow-Band-Emission for Light-Emitting Diodes Application. *Chemistry of Materials*, **2017**, 29, 6781-6792 | 9.6 | 39 |
| 196 | A method for the synthesis of high quality large crystal MCM-41. *Chemical Communications*, **1999**, 51-52 | 5.8 | 39 |
| 195 | Defect Fluorite Superstructures in the Bi2O3-WO3 System. *Journal of Solid State Chemistry*, **1994**, 108, 381-394 | 3.3 | 39 |
| 194 | The Ti AlC MAX Phase as an Efficient Catalyst for Oxidative Dehydrogenation of n-Butane. *Angewandte Chemie - International Edition*, **2018**, 57, 1485-1490 | 16.4 | 38 |
| 193 | Microstructural study of the formation mechanism of metal–organic framework MOF-5. *CrystEngComm*, **2014**, 16, 1064-1070 | 3.3 | 38 |
| 192 | Nanosegregation and neighbor-cation control of photoluminescence in carbidonitridosilicate phosphors. *Angewandte Chemie - International Edition*, **2013**, 52, 8102-6 | 16.4 | 38 |
| 191 | Controlled synthesis, characterization, and crystallization of Ni-P nanospheres. *Journal of Physical Chemistry B*, **2005**, 109, 24361-8 | 3.4 | 38 |
| 190 | A simple method for coating carbon nanotubes with CoB amorphous alloy. *Materials Letters*, **2003**, 57, 1339-1344 | 3.3 | 38 |
| 189 | The role of Bi-doping in promoting electron transfer and catalytic performance of Pt/3DOM-Ce1-xBixO2-δ. *Journal of Catalysis*, **2018**, 365, 292-302 | 7.3 | 37 |
| 188 | Pore diameter control in anodic titanium and aluminium oxides. *Journal of Materials Chemistry*, **2011**, 21, 357-362 | | 37 |
| 187 | Assessing molecular transport properties of nanoporous materials by interference microscopy: remarkable effects of composition and microstructure on diffusion in the silicoaluminophosphate zeotype STA-7. *Journal of the American Chemical Society*, **2010**, 132, 11665-70 | 16.4 | 35 |
| 186 | Synthesis, structure and thermal transformations of aluminophosphates containing the nickel complex [Ni(diethylenetriamine)2]2+ as a structure directing agent. *Microporous and Mesoporous Materials*, **2003**, 58, 91-104 | 5.3 | 35 |
| 185 | A new family of photocatalysts based on Bi2O3. *Journal of Solid State Chemistry*, **1988**, 72, 126-130 | 3.3 | 35 |
| 184 | Aluminate Red Phosphor in Light-Emitting Diodes: Theoretical Calculations, Charge Varieties, and High-Pressure Luminescence Analysis. *ACS Applied Materials & Interfaces*, **2017**, 9, 23995-24004 | 9.5 | 34 |
| 183 | M3+O(M'n4+)2 clusters in doped MnOx catalysts as promoted active sites for the aerobic oxidation of 5-hydroxymethylfurfural. *Catalysis Science and Technology*, **2018**, 8, 2299-2303 | 5.5 | 34 |
| 182 | Synthesis and Formation Mechanism of Textured MOF-5. *Crystal Growth and Design*, **2016**, 16, 2104-2111 | 3.5 | 34 |
| 181 | A systematic study of the formation of mesostructured silica using surfactant ruthenium complexes in high- and low-concentration regimes. *Journal of Materials Chemistry*, **2008**, 18, 5282 | | 34 |

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| 180 | TNU-7: A Large-Pore Gallosilicate Zeolite Constructed of Strictly Alternating MOR and MAZ Layers. *Chemistry of Materials*, **2005**, 17, 1272-1274 | 9.6 | 34 |
| 179 | Electron-beam induced formation of nanoparticle chains and wires from a ruthenium cluster polymer. *Chemical Communications*, **2000**, 1317-1318 | 5.8 | 34 |
| 178 | Solid Solution of YBaCuxCo2-xO5 (0 .ltoreq. x .ltoreq. 1) and Its Intergrowth with YBa2Cu3O7. *Chemistry of Materials*, **1994**, 6, 441-447 | 9.6 | 34 |
| 177 | Membrane lipid peroxidation by the peroxidase-like activity of magnetite nanoparticles. *Chemical Communications*, **2014**, 50, 11147-50 | 5.8 | 33 |
| 176 | A new anode for solid oxide fuel cells with enhanced OCV under methane operation. *Physical Chemistry Chemical Physics*, **2007**, 9, 1821-30 | 3.6 | 33 |
| 175 | What Can Electron Microscopy Tell Us Beyond Crystal Structures?. *European Journal of Inorganic Chemistry*, **2016**, 2016, 941-950 | 2.3 | 33 |
| 174 | Hierarchical structured graphene/metal oxide/porous carbon composites as anode materials for lithium-ion batteries. *Materials Research Bulletin*, **2016**, 73, 102-110 | 5.1 | 32 |
| 173 | Sc-Substituted Oxygen Excess Titanates as Fuel Electrodes for SOFCs. *Journal of the Electrochemical Society*, **2005**, 152, A1458 | 3.9 | 32 |
| 172 | STA-20: An ABC-6 Zeotype Structure Prepared by Co-Templating and Solved via a Hypothetical Structure Database and STEM-ADF Imaging. *Chemistry of Materials*, **2017**, 29, 2180-2190 | 9.6 | 31 |
| 171 | Improved Optoelectronic Properties of Silicon Nanocrystals/Polymer Nanocomposites by Microplasma-Induced Liquid Chemistry. *Journal of Physical Chemistry C*, **2013**, 117, 23198-23207 | 3.8 | 31 |
| 170 | Novel Large-Pore Aluminophosphate Molecular Sieve STA-15 Prepared Using the Tetrapropylammonium Cation As a Structure Directing Agent. *Chemistry of Materials*, **2010**, 22, 338-346 | 9.6 | 31 |
| 169 | Crystal morphology supports the liquid crystal formation mechanism for the mesoporous molecular sieve MCM-41. *Chemical Physics Letters*, **1995**, 244, 117-120 | 2.5 | 31 |
| 168 | The application of inelastic neutron scattering to investigate CO hydrogenation over an iron Fischer□ropsch synthesis catalyst. *Journal of Catalysis*, **2014**, 312, 221-231 | 7.3 | 30 |
| 167 | Dipole field guided orientated attachment of nanocrystals to twin-brush ZnO mesocrystals. *Chemistry - A European Journal*, **2012**, 18, 16104-13 | 4.8 | 30 |
| 166 | The origin of ZnO twin crystals in bio-inspired synthesis. *CrystEngComm*, **2012**, 14, 1247-1255 | 3.3 | 30 |
| 165 | Crystallographic and magnetic studies of mesoporous eskolaite,. *Microporous and Mesoporous Materials*, **2010**, 130, 280-286 | 5.3 | 30 |
| 164 | Restructuring of mesoporous silica: high quality large crystal MCM-41 via a seeded recrystallisation route. *Journal of Materials Chemistry*, **2000**, 10, 1139-1145 | | 30 |
| 163 | Ultra-small photoluminescent silicon-carbide nanocrystals by atmospheric-pressure plasmas. *Nanoscale*, **2016**, 8, 17141-17149 | 7.7 | 30 |

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| 162 | Experimental and theoretical investigations of Cs adsorption on crown ethers modified magnetic adsorbent. *Journal of Hazardous Materials*, **2019**, 371, 712-720 | 12.8 | 29 |
| 161 | Crepe Cake Structured Layered Double Hydroxide/Sulfur/Graphene as a Positive Electrode Material for Li-S Batteries. *ACS Nano*, **2020**, 14, 8220-8231 | 16.7 | 29 |
| 160 | Aptamer conjugated Mo(6)S(9-x)I(x) nanowires for direct and highly sensitive electrochemical sensing of thrombin. *Biosensors and Bioelectronics*, **2011**, 26, 1853-9 | 11.8 | 29 |
| 159 | In situ EPR studies of electron trapping in a nanocrystalline rutile. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 216, 238-243 | 4.7 | 29 |
| 158 | Preparation of Benzylamine by Highly Selective Reductive Amination of Benzaldehyde Over Ru on an Acidic Activated Carbon Support as the Catalyst. *Catalysis Letters*, **2002**, 84, 1-5 | 2.8 | 29 |
| 157 | Electron diffraction and HRTEM imaging of beam-sensitive materials. *Crystallography Reviews*, **2011** , 17, 163-185 | 1.3 | 28 |
| 156 | Synthesis and Characterization of Gibbsite Nanostructures. *Journal of Physical Chemistry C*, **2008**, 112, 4124-4128 | 3.8 | 28 |
| 155 | Facile Synthesis of Branched Ruthenium Nanocrystals and Their Use in Catalysis. *Crystal Growth and Design*, **2012**, 12, 939-942 | 3.5 | 27 |
| 154 | Uncovering a Solvent-Controlled Preferential Growth of Buckminsterfullerene (C60) Nanowires. *Journal of Physical Chemistry C*, **2009**, 113, 6390-6397 | 3.8 | 27 |
| 153 | Formation Mechanism of Mg2SiO4 Fishbone-like Fractal Nanostructures. *Journal of Physical Chemistry B*, **2004**, 108, 11561-11566 | 3.4 | 27 |
| 152 | Particle morphology and microstructure in the mesoporous silicate SBA-2. *Journal of Materials Chemistry*, **2002**, 12, 20-23 | | 27 |
| 151 | The type II superstructural family in the Bi2O3?V2O5 system. *Journal of Solid State Chemistry*, **1990**, 87, 44-54 | 3.3 | 27 |
| 150 | Active Oxygen Species Promoted Catalytic Oxidation of 5-Hydroxymethyl-2-furfural on Facet-Specific Pt Nanocrystals. *ACS Catalysis*, **2019**, 9, 8306-8315 | 13.1 | 26 |
| 149 | Directly Imaging Interstitial Oxygen in Silicate Apatite. *Advanced Energy Materials*, **2012**, 2, 316-321 | 21.8 | 26 |
| 148 | Relaxor-to-Ferroelectric Crossover and Disruption of Polar Order in Empty Tetragonal Tungsten Bronzes. *Chemistry of Materials*, **2016**, 28, 4616-4627 | 9.6 | 25 |
| 147 | Synthesis, characterization and control of faulting in STF/SFF topologies, a new family of intergrowth zeolites. *Journal of Materials Chemistry*, **2004**, 14, 1982 | | 25 |
| 146 | A Highly Efficient Coordination Polymer for Selective Trapping and Sensing of Perrhenate/Pertechnetate. *ACS Applied Materials & Interfaces*, **2020**, 12, 15246-15254 | 9.5 | 24 |
| 145 | Topotactic anion-exchange in thermoelectric nanostructured layered tin chalcogenides with reduced selenium content. *Chemical Science*, **2018**, 9, 3828-3836 | 9.4 | 24 |

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| 144 | Zeolite-derived hybrid materials with adjustable organic pillars. *Chemical Science*, **2016**, 7, 3589-3601 | 9.4 | 24 |
| 143 | Crystal growth of Si nanowires and formation of longitudinal planar defects. *CrystEngComm*, **2010**, 12, 2793 | 3.3 | 24 |
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