# Hiroaki Imai

List of Publications by Year
in descending order



| 373 | 12,606 | 26630 56 | 40979 93 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 388 | 388 | 388 | 12176 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Growth conditions for wurtzite zinc oxide films in aqueous solutions. Journal of Materials Chemistry, 2002, 12, 3773-3778. | 6.7 | 509 |
| 2 | Growth of Submicrometer-Scale Rectangular Parallelepiped Rutile TiO2 Films in Aqueous TiCl3 Solutions under Hydrothermal Conditions. Journal of the American Chemical Society, 2004, 126, 7790-7791. | 13.7 | 396 |
| 3 | Synthesis of Silica Nanoparticles Having a Well-Ordered Mesostructure Using a Double Surfactant System. Journal of the American Chemical Society, 2004, 126, 462-463. | 13.7 | 353 |
| 4 | Direct preparation of anatase TiO2 nanotubes in porous alumina membranes. Journal of Materials Chemistry, 1999, 9, 2971-2972. | 6.7 | 343 |
| 5 | Low-temperature synthesis of anatase thin films on glass and organic substrates by direct deposition from aqueous solutions. Thin Solid Films, 1999, 351, 220-224. | 1.8 | 264 |
| 6 | The Hierarchical Architecture of Nacre and Its Mimetic Material. Angewandte Chemie - International Edition, 2005, 44, 6571-6575. | 13.8 | 223 |
| 7 | Experimental Demonstration for the Morphological Evolution of Crystals Grown in Gel Media. Crystal Growth and Design, 2003, 3, 711-716. | 3.0 | 202 |
| 8 | Superhydrophobic silica films by solâ€“gel co-precursor method. Applied Surface Science, 2009, 256, 217-222. | 6.1 | 190 |
| 9 | Crystal Phase Control for Titanium Dioxide Films by Direct Deposition in Aqueous Solutions. Chemistry of Materials, 2002, 14, 609-614. | 6.7 | 181 |
| 10 | Growth of layered basic zinc acetate in methanolic solutions and its pyrolytic transformation into porous zinc oxide films. Journal of Colloid and Interface Science, 2004, 272, 391-398. | 9.4 | 172 |
| 11 | Hydrothermal Routes To Prepare Nanocrystalline Mesoporous SnO2Having High Thermal Stability. Langmuir, 2004, 20, 6476-6481. | 3.5 | 171 |
| 12 | Nanoengineering in Echinoderms: The Emergence of Morphology from Nanobricks. Small, 2006, 2, 66-70. | 10.0 | 151 |
| 13 | Non-Basic Solution Routes to Prepare ZnO Nanoparticles. Journal of Sol-Gel Science and Technology, 2004, 29, 71-79. | 2.4 | 130 |
| 14 | A Biomimetic Approach for Hierarchically Structured Inorganic Crystals through Self-Organization. Bulletin of the Chemical Society of Japan, 2006, 79, 1834-1851. | 3.2 | 129 |
| 15 | Nanosegregated Amorphous Composites of Calcium Carbonate and an Organic Polymer. Advanced Materials, 2008, 20, 3633-3637. | 21.0 | 119 |
| 16 | Adhesion of osteoblast-like cells on nanostructured hydroxyapatite. Acta Biomaterialia, 2010, 6, 591-597. | 8.3 | 117 |
| 17 | Fabrication of mesoporous ZnO nanosheets from precursor templates grown in aqueous solutions. Journal of Sol-Gel Science and Technology, 2006, 39, 63-72. | 2.4 | 115 |
| 18 | One-Pot Synthesis of Manganese Oxide Nanosheets in Aqueous Solution: Chelation-Mediated Parallel Control of Reaction and Morphology. Angewandte Chemie - International Edition, 2007, 46, 4951-4955. | 13.8 | 115 |

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| 19 | One-Step Synthesis of Nanoâ€“Micro Chestnut TiO<sub>2</sub> with Rutile Nanopins on the Microanatase Octahedron. ACS Nano, 2007, 1, 273-278. | 14.6 | 112 |
| 20 | Amplification of Chirality from Molecules into Morphology of Crystals through Molecular Recognition. Journal of the American Chemical Society, 2004, 126, 9271-9275. | 13.7 | 109 |
| 21 | In situ growth BaTiO3 nanocubes and their superlattice from an aqueous process. Nanoscale, 2012, 4, 1344. | 5.6 | 105 |
| 22 | Porous superhydrophobic silica films by solâ€“gel process. Microporous and Mesoporous Materials, 2010, 130, 115-121. | 4.4 | 97 |
| 23 | Intrinsic- and extrinsic-defect formation in silica glasses by radiation. Journal of Non-Crystalline Solids, 1994, 179, 202-213. | 3.1 | 96 |
| 24 | Structural Changes in Sol-Gel Derived SiO2 and TiO2 Films by Exposure to Water Vapor. Journal of Sol-Gel Science and Technology, 1997, 10, 45-54. | 2.4 | 96 |
| 25 | Evolution of Nanoscale SnO2Grains, Flakes, and Plates into Versatile Particles and Films through Crystal Growth in Aqueous Solutions. Crystal Growth and Design, 2005, 5, 1079-1083. | 3.0 | 96 |
| 26 | {111}-faceting of low-temperature processed rutile TiO2 rods. Journal of Crystal Growth, 2006, 293, 541-545. | 1.5 | 95 |
| 27 | Dependence of defects induced by excimer laser on intrinsic structural defects in synthetic silica glasses. Physical Review B, 1991, 44, 4812-4818. | 3.2 | 94 |
| 28 | Characteristics of CeO<sub>2</sub> Nanocubes and Related Polyhedra Prepared by Using a Liquidâ˜Liquid Interface. Crystal Growth and Design, 2010, 10, 4537-4541. | 3.0 | 94 |
| 29 | Preparation of TiO2 fibers with well-organized structures. Journal of Materials Chemistry, 2000, 10, 2005-2006. | 6.7 | 93 |
| 30 | A nanoscale meshed electrode of single-crystalline SnO for lithium-ion rechargeable batteries. Electrochemistry Communications, 2008, 10, 52-55. | 4.7 | 90 |
| 31 | Preparation of Nanotextured and Nanofibrous Hydroxyapatite through Dicalcium Phosphate with Gelatin. Chemistry of Materials, 2006, 18, 229-234. | 6.7 | 89 |
| 32 | Liquid phase deposition film of tin oxide. Journal of Non-Crystalline Solids, 1997, 210, 48-54. | 3.1 | 87 |
| 33 | Selective Preparation of SnO2and SnO Crystals with Controlled Morphologies in an Aqueous Solution System. Crystal Growth and Design, 2006, 6, 2186-2190. | 3.0 | 85 |
| 34 | Self-Organized Formation of Hierarchical Structures. , 2006, , 43-72. | | 85 |
| 35 | Structural Control of Mesoporous Silica Nanoparticles in a Binary Surfactant System. Langmuir, 2006, 22, 802-806. | 3.5 | 82 |
| 36 | Emergence of Morphological Chirality from Twinned Crystals. Angewandte Chemie - International Edition, 2004, 43, 1363-1368. | 13.8 | 80 |

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| 37 | Formation process of sheets and helical forms consisting of strontium carbonate fibrous crystals with silicate. Journal of Crystal Growth, 2003, 253, 435-444. | 1.5 | 79 |
| 38 | Water repellent porous silica films by solâ€“gel dip coating method. Journal of Colloid and Interface Science, 2010, 352, 30-35. | 9.4 | 79 |
| 39 | Synthesis and Applications of SnO Nanosheets: Parallel Control of Oxidation State and Nanostructure Through an Aqueous Solution Route. Small, 2010, 6, 776-781. | 10.0 | 78 |
| 40 | Growth of monodispersed SrTiO3 nanocubes by thermohydrolysis method. CrystEngComm, 2011, 13, 3878. | 2.6 | 78 |
| 41 | Band-gap expansion of tungsten oxide quantum dots synthesized in sub-nano porous silica. Chemical Communications, 2013, 49, 8477. | 4.1 | 78 |
| 42 | Direction Control of Oriented Self-Assembly for 1D, 2D, and 3D Microarrays of Anisotropic Rectangular Nanoblocks. Journal of the American Chemical Society, 2014, 136, 3716-3719. | 13.7 | 77 |
| 43 | Fabrication of ZnO Nanoparticles with Various Aspect Ratios through Acidic and Basic Routes. Crystal Growth and Design, 2006, 6, 1054-1056. | 3.0 | 75 |
| 44 | Selective Synthesis of Various Nanoscale Morphologies of Hydroxyapatite via an Intermediate phase. Crystal Growth and Design, 2008, 8, 1055-1059. | 3.0 | 75 |
| 45 | Visualization and Quantitative Detection of Friction Force by Selfâ€Organized Organic Layered Composites. Advanced Materials, 2018, 30, e1801121. | 21.0 | 74 |
| 46 | Morphological Evaluation and Film Formation with Iso-Oriented Calcite Crystals Using Binary Poly(Acrylic Acid). Chemistry of Materials, 2004, 16, 3191-3196. | 6.7 | 73 |
| 47 | Ultraviolet-reduced reduction and crystallization of indium oxide films. Journal of Applied Physics, 1999, 85, 203-207. | 2.5 | 70 |
| 48 | Preparation of Porous Anatase Coating from Solâ€Gelâ€Derived Titanium Dioxide and Titanium Dioxideâ€Silica by Waterâ€Vapor Exposure. Journal of the American Ceramic Society, 1999, 82, 2301-2304. | 3.8 | 68 |
| 49 | Preparation of mesoporous TiO2 thin films by surfactant templating. Journal of Non-Crystalline Solids, 2001, 285, 90-95. | 3.1 | 68 |
| 50 | Bottom-Up Synthesis of Titanate Nanosheets with Hierarchical Structures and a High Specific Surface Area. Small, 2006, 2, 390-393. | 10.0 | 66 |
| 51 | A hierarchical self-similar structure of oriented calcite with association of an agar gel matrix: inheritance of crystal habit from nanoscale. Chemical Communications, 2007, , 2841. | 4.1 | 64 |
| 52 | Biomimetic Solidâ€Solution Precursors of Metal Carbonate for Nanostructured Metal Oxides: MnO/Co and MnOâ€CoO Nanostructures and Their Electrochemical Properties. Advanced Functional Materials, 2011, 21, 3673-3680. | 14.9 | 64 |
| 53 | Preparation of hierarchically organized calcium phosphateâ€“organic polymer composites by calcification of hydrogel. Science and Technology of Advanced Materials, 2006, 7, 219-225. | 6.1 | 63 |
| 54 | Bioinspired Hierarchical Crystals. MRS Bulletin, 2010, 35, 138-144. | 3.5 | 63 |

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| 55 | Tin Oxide Meshes Consisting of Nanoribbons Prepared through an Intermediate Phase in an Aqueous Solution. Crystal Growth and Design, 2007, 7, 841-843. | 3.0 | 59 |
| 56 | Preparation of Porous Titania Film by Modified Sol-Gel Method and its Application to Photocatalyst. Journal of Sol-Gel Science and Technology, 2002, 25, 65-74. | 2.4 | 58 |
| 57 | Synthesis of mesoporous silica foams with hierarchical trimodal pore structures. Journal of Materials Chemistry, 2003, 13, 1812. | 6.7 | 58 |
| 58 | Morphological Evolution of Inorganic Crystal into Zigzag and Helical Architectures with an Exquisite Association of Polymer:Â A Novel Approach for Morphological Complexity. Langmuir, 2005, 21, 863-869. | 3.5 | 58 |
| 59 | Enhanced photocatalytic activity of quantum-confined tungsten trioxide nanoparticles in mesoporous silica. Chemical Communications, 2010, 46, 5286. | 4.1 | 58 |
| 60 | Synthesis of rutile and anatase films with high surface areas in aqueous solutions containing urea. Thin Solid Films, 2003, 434, 86-93. | 1.8 | 56 |
| 61 | Polymorph Control of Calcium Carbonate Films in a Poly(acrylic acid)â"Chitosan System. Crystal Growth and Design, 2006, 6, 1636-1641. | 3.0 | 56 |
| 62 | Self-organized formation of a hierarchical self-similar structure with calcium carbonate. Chemical Communications, 2003, , 484-485. | 4.1 | 55 |
| 63 | Alternative modification methods for solâ€"gel coatings of silica, titania and silicaâ€"titania using ultraviolet irradiation and water vapor. Thin Solid Films, 1999, 351, 91-94. | 1.8 | 54 |
| 64 | Optically transparent superhydrophobic TEOS-derived silica films by surface silylation method. Journal of Sol-Gel Science and Technology, 2010, 53, 208-215. | 2.4 | 53 |
| 65 | Mesocrystal nanosheet of rutile TiO<sub>2</sub>and its reaction selectivity as a photocatalyst. CrystEngComm, 2012, 14, 1405-1411. | 2.6 | 53 |
| 66 | A new effect of ultrasonication on the formation of BaTiO3 nanoparticles. Ultrasonics Sonochemistry, 2010, 17, 310-314. | 8.2 | 52 |
| 67 | Hydrophobic Inorganicâ€"Organic Composite Nanosheets Based on Monolayers of Transition Metal Oxides. Chemistry of Materials, 2014, 26, 3579-3585. | 6.7 | 52 |
| 68 | Three-dimensional architectures of spinel-type LiMn2O4 prepared from biomimetic porous carbonates and their application to a cathode for lithium-ion batteries. Journal of Materials Chemistry, 2009, 19, 4012. | 6.7 | 50 |
| 69 | Modifications in coordination structure of Mg[TFSA]<sub>2</sub>-based supporting salts for high-voltage magnesium rechargeable batteries. Physical Chemistry Chemical Physics, 2019, 21, 12100-12111. | 2.8 | 50 |
| 70 | Grain Size Control of Mesoporous Silica and Formation of Bimodal Pore Structures. Langmuir, 2004, 20, 11504-11508. | 3.5 | 49 |
| 71 | Synthesis and Morphogenesis of Organic Polymer Materials with Hierarchical Structures in Biominerals. Journal of the American Chemical Society, 2011, 133, 8594-8599. | 13.7 | 49 |
| 72 | Morphological evolution of silver crystals produced by reduction with ascorbic acid. Journal of Crystal Growth, 2002, 241, 193-199. | 1.5 | 48 |

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| 73 | Tunable Stimuliâ€Responsive Colorâ€Change Properties of Layered Organic Composites. Advanced Functional Materials, 2018, 28, 1804906. | 14.9 | 48 |
| 74 | Significant densification of solâ€gel derived amorphous silica films by vacuum ultraviolet irradiation. Journal of Applied Physics, 1996, 79, 8304-8309. | 2.5 | 47 |
| 75 | Hierarchically organized architecture of potassium hydrogen phthalate and poly(acrylic acid): toward a general strategy for biomimetic crystal design. Chemical Communications, 2005, , 6011. | 4.1 | 47 |
| 76 | Characteristics of Multilayered Nanostructures of CeO<sub>2</sub> Nanocrystals Self-Assembled on an Enlarged Liquidâ€“Gas Interface. Crystal Growth and Design, 2011, 11, 4129-4134. | 3.0 | 47 |
| 77 | Ultrahighâ€Sensitive Compressionâ€Stress Sensor Using Integrated Stimuliâ€Responsive Materials. Advanced Materials, 2021, 33, e2008755. | 21.0 | 47 |
| 78 | Self-organized formation of porous aragonite with silicate. Journal of Crystal Growth, 2002, 244, 200-205. | 1.5 | 46 |
| 79 | Oriented Nanocrystal Mosaic in Monodispersed CaCO<sub>3</sub> Microspheres with Functional Organic Molecules. Crystal Growth and Design, 2012, 12, 876-882. | 3.0 | 46 |
| 80 | Monolayered Nanodots of Transition Metal Oxides. Journal of the American Chemical Society, 2013, 135, 4501-4508. | 13.7 | 46 |
| 81 | Magnesium-Mediated Nanocrystalline Mosaics of Calcite. Crystal Growth and Design, 2009, 9, 223-226. | 3.0 | 45 |
| 82 | Sliding behavior of water drops on solâ€“gel derived hydrophobic silica films. Applied Surface Science, 2010, 256, 3259-3264. | 6.1 | 44 |
| 83 | Morphological variation of hydroxyapatite grown in aqueous solution based on simulated body fluid. CrystEngComm, 2012, 14, 1143-1149. | 2.6 | 43 |
| 84 | Synthesis of Liâ€“Mnâ€“O mesocrystals with controlled crystal phases through topotactic transformation of MnCO3. Nanoscale, 2013, 5, 2352. | 5.6 | 43 |
| 85 | Evidence for pair generation of anEâ€™ center and a nonbridging oxygen-hole center in Î³-ray-irradiated fluorine-doped low-OH synthetic silica glasses. Physical Review B, 1992, 45, 10818-10821. | 3.2 | 42 |
| 86 | Tunable Mechano-responsive Color-Change Properties of Organic Layered Material by Intercalation. CheM, 2017, 3, 509-521. | 11.7 | 42 |
| 87 | Layer-by-layer self-assembly replication technique: application to photoelectrode of dye-sensitized solar cell. Thin Solid Films, 2003, 438-439, 346-351. | 1.8 | 41 |
| 88 | Emergence of Acute Morphologies Consisting of Iso-Oriented Calcite Nanobricks in a Binary Poly(Acrylic Acid) System. Crystal Growth and Design, 2006, 6, 612-615. | 3.0 | 40 |
| 89 | Aqueous solution synthesis of SnO nanostructures with tuned optical absorption behavior and photoelectrochemical properties through morphological evolution. Nanoscale, 2010, 2, 2424. | 5.6 | 40 |
| 90 | Ultraviolet-Laser-Induced Crystallization of Sol-Gel Derived Indium Oxide Films. Journal of Sol-Gel Science and Technology, 1998, 13, 991-994. | 2.4 | 39 |

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| 91 | Formation of calcium phosphate having a hierarchically laminated architecture through periodic precipitation in organic gel. Chemical Communications, 2003, , 1952. | 4.1 | 39 |
| 92 | Ultralow refractive index coatings consisting of mesoporous silica nanoparticles. Optics Letters, 2009, 34, 2060. | 3.3 | 39 |
| 93 | Emergence of helical morphologies with crystals: twisted growth under diffusion-limited conditions and chirality control with molecular recognition. CrystEngComm, 2010, 12, 1679. | 2.6 | 39 |
| 94 | Nano-sized cube-shaped single crystalline oxides and their potentials; composition, assembly and functions. Advanced Powder Technology, 2014, 25, 1401-1414. | 4.1 | 39 |
| 95 | Fabrication of nanocelluloseâ€“hydroxyapatite composites and their application as water-resistant transparent coatings. Journal of Materials Chemistry B, 2015, 3, 5858-5863. | 5.8 | 39 |
| 96 | Real-Time Imaging of 2D and 3D Temperature Distribution: Coating of Metal-Ion-Intercalated Organic Layered Composites with Tunable Stimuli-Responsive Properties. ACS Applied Materials & Interfaces, 2017, 9, 16546-16552. | 8.0 | 39 |
| 97 | Two exfoliation approaches for organic layered compounds: hydrophilic and hydrophobic polydiacetylene nanosheets. Chemical Science, 2017, 8, 647-653. | 7.4 | 39 |
| 98 | Oxide aerogel catalysts. Journal of Non-Crystalline Solids, 1998, 225, 153-156. | 3.1 | 38 |
| 99 | Biomimetic morphological design for manganese oxide and cobalt hydroxide nanoflakes with a mosaic interior. Journal of Materials Chemistry, 2007, 17, 316-321. | 6.7 | 38 |
| 100 | Enhanced electrochemical properties of MgCo2O4 mesocrystals as a positive electrode active material for Mg batteries. Journal of Alloys and Compounds, 2018, 739, 793-798. | 5.5 | 38 |
| 101 | A simple preparation technique for shape-controlled zinc oxide nanoparticles: Formation of narrow size-distributed nanorods using seeds in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 319, 130-135. | 4.7 | 37 |
| 102 | Preparation of LiFePO<sub>4</sub> Mesocrystals Consisting of Nanorods through Organic-Mediated Parallel Growth from a Precursor Phase. Crystal Growth and Design, 2010, 10, 1777-1781. | 3.0 | 37 |
| 103 | Multistage redox reactions of conductive-polymer nanostructures with lithium ions: potential for high-performance organic anodes. NPG Asia Materials, 2018, 10, 397-405. | 7.9 | 37 |
| 104 | Matrix-Mediated Formation of Hierarchically Structured SnO Crystals As Intermediates between Single Crystals and Polycrystalline Aggregates. Langmuir, 2008, 24, 9038-9042. | 3.5 | 36 |
| 105 | Ultrahydrophobic silica films by solâ€“gel process. Journal of Porous Materials, 2010, 17, 565-571. | 2.6 | 36 |
| 106 | Control on wetting properties of spin-deposited silica films by surface silylation method. Applied Surface Science, 2010, 256, 2115-2121. | 6.1 | 36 |
| 107 | Growth of BaTiO3 nanoparticles in ethanolâ€“water mixture solvent under an ultrasound-assisted synthesis. Chemical Engineering Journal, 2011, 170, 333-337. | 12.7 | 36 |
| 108 | Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 27, 91-95. | 2.4 | 35 |

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| 109 | Intercalationâ€Induced Tunable Stimuliâ€Responsive Colorâ€Change Properties of Crystalline Organic Layered Compound. Advanced Functional Materials, 2016, 26, 3463-3471. | 14.9 | 35 |
| 110 | Preparation and characterization of mesoporous titaniaâ€“alumina ceramic by modified solâ€“gel method. Journal of Non-Crystalline Solids, 2004, 350, 271-276. | 3.1 | 34 |
| 111 | Nanometric morphological variation of zinc oxide crystals using organic molecules with carboxy and sulfonic groups. Journal of Colloid and Interface Science, 2007, 310, 302-311. | 9.4 | 34 |
| 112 | Oriented aggregation of BaTiO3 nanocrystals and large particles in the ultrasonic-assistant synthesis. CrystEngComm, 2010, 12, 3441. | 2.6 | 34 |
| 113 | Dendritic Growth of NaCl Crystals in a Gel Matrix: Variation of Branching and Control of Bending. Crystal Growth and Design, 2016, 16, 4278-4284. | 3.0 | 33 |
| 114 | Effects of the intercalation rate on the layered crystal structures and stimuli-responsive color-change properties of polydiacetylene. Journal of Materials Chemistry C, 2017, 5, 8250-8255. | 5.5 | 33 |
| 115 | Preparation of meso-porous TiO2 gels and their characterization. Journal of Non-Crystalline Solids, 2001, 285, 96-100. | 3.1 | 32 |
| 116 | Application of alumina aerogels as catalysts. Journal of Sol-Gel Science and Technology, 1997, 8, 843-846. | 2.4 | 31 |
| 117 | Nanoscale morphological design of ZnO crystals grown in aqueous solutions. Journal of the Ceramic Society of Japan, 2010, 118, 969-976. | 1.1 | 31 |
| 118 | BaTiO<sub>3</sub> nanocube and assembly to ferroelectric supracrystals. Journal of Materials Research, 2013, 28, 2932-2945. | 2.6 | 31 |
| 119 | Amorphous 2D materials containing a conjugated-polymer network. Communications Chemistry, 2019, 2, . | 4.5 | 31 |
| 120 | Biomimetic Synthesis of Wurtzite ZnO Nanowires Possessing a Mosaic Structure. Small, 2006, 2, 1183-1187. | 10.0 | 30 |
| 121 | Morphology and orientation control of guanine crystals: a biogenic architecture and its structure mimetics. Journal of Materials Chemistry, 2012, 22, 22686. | 6.7 | 30 |
| 122 | Quantitative detection of near-infrared (NIR) light using organic layered composites. Journal of Materials Chemistry C, 2019, 7, 4089-4095. | 5.5 | 30 |
| 123 | Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 28, 97-104. | 2.4 | 29 |
| 124 | Phosphate-mediated ZnO Nanosheets with a Mosaic Structure. Chemistry Letters, 2004, 33, 768-769. | 1.3 | 29 |
| 125 | Advanced Biomimetic Approach for Crystal Growth in Nonaqueous Media: Morphology and Orientation Control of Pentacosadiynoic Acid and Applications. Chemistry of Materials, 2015, 27, 2627-2632. | 6.7 | 29 |
| 126 | A Microbialâ€Mineralizationâ€Inspired Approach for Synthesis of Manganese Oxide Nanostructures with Controlled Oxidation States and Morphologies. Advanced Functional Materials, 2010, 20, 4279-4286. | 14.9 | 28 |

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| 127 | Self-organization of hollow-cone carbonate crystals through molecular control with an acid organic polymer. Polymer Journal, 2012, 44, 612-619. | 2.7 | 28 |
| 128 | Visualization and Quantification of Microwaves Using Thermoresponsive Color-Change Hydrogel. ACS Sensors, 2020, 5, 133-139. | 7.8 | 28 |
| 129 | Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 26, 181-184. | 2.4 | 26 |
| 130 | Preparation of titania foams having an open cellular structure and their application to photocatalysis. Journal of Catalysis, 2004, 226, 462-465. | 6.2 | 26 |
| 131 | Crystal growth of metastable rutile-type TixSn1â€“xO2 solid solutions in an aqueous system. Chemical Communications, 2005, , 6014. | 4.1 | 26 |
| 132 | Mesostructured crystals: Growth processes and features. Progress in Crystal Growth and Characterization of Materials, 2016, 62, 212-226. | 4.0 | 26 |
| 133 | Materialsâ€Informaticsâ€Assisted Highâ€Yield Synthesis of 2D Nanomaterials through Exfoliation. Advanced Theory and Simulations, 2019, 2, 1800180. | 2.8 | 26 |
| 134 | Structured spinel oxide positive electrodes of magnesium rechargeable batteries: High rate performance and high cyclability by interconnected bimodal pores and vanadium oxide coating. Journal of Alloys and Compounds, 2020, 816, 152556. | 5.5 | 26 |
| 135 | Fabrication of two- and three-dimensional photonic crystals of titania with submicrometer resolution by deep x-ray lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 934. | 1.6 | 25 |
| 136 | Relationship between mesostructures and pH conditions for the formation of silicaâ€“cationic surfactant complexes. Microporous and Mesoporous Materials, 2006, 95, 200-205. | 4.4 | 25 |
| 137 | Chelationâ€Mediated Aqueous Synthesis of Metal Oxyhydroxide and Oxide Nanostructures: Combination of Ligandâ€Controlled Oxidation and Ligandâ€Cooperative Morphogenesis. Chemistry - A European Journal, 2007, 13, 8564-8571. | 3.3 | 25 |
| 138 | Low-temperature preparation of dye-sensitized solar cells through crystal growth of anatase titania in aqueous solutions. Solar Energy Materials and Solar Cells, 2006, 90, 640-648. | 6.2 | 24 |
| 139 | Bio-inspired synthesis of xLi2MnO3-(1 â^' x)LiNi0.33Co0.33Mn0.33O2 lithium-rich layered cathode materials. Materials and Design, 2016, 109, 718-725. | 7.0 | 24 |
| 140 | Significant Increase in Band Gap and Emission Efficiency of In<sub>2</sub>O<sub>3</sub> Quantum Dots by Size-Tuning around 1 nm in Supermicroporous Silicas. Langmuir, 2017, 33, 3014-3017. | 3.5 | 24 |
| 141 | A paper-based device of a specially designed soft layered polymer composite for measurement of weak friction force. Journal of Materials Chemistry C, 2020, 8, 1265-1272. | 5.5 | 24 |
| 142 | Phase Transition Behavior of MgMn<sub>2</sub>O<sub>4</sub> Spinel Oxide Cathode during Magnesium Ion Insertion. Chemistry of Materials, 2021, 33, 1006-1012. | 6.7 | 24 |
| 143 | Ultraviolet-Laser-Induced Crystallization of Sol-Gel Derived Inorganic Oxide Films. Journal of Sol-Gel Science and Technology, 2000, 19, 333-336. | 2.4 | 23 |
| 144 | Photocrystallization of amorphous ZnO. Journal of Applied Physics, 2002, 92, 5707-5710. | 2.5 | 23 |

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| 145 | Few-layered titanate nanosheets with large lateral size and surface functionalization: potential for the controlled exfoliation of inorganicâ€“organic layered composites. Chemical Communications, 2018, 54, 244-247. | 4.1 | 23 |
| 146 | Stereospecific Morphogenesis of Aspartic Acid Helical Crystals through Molecular Recognition. Langmuir, 2007, 23, 5466-5470. | 3.5 | 22 |
| 147 | Lithium insertion into nanometer-sized rutile-type TixSn1â^'xO2 solid solutions. Solid State Ionics, 2009, 180, 956-960. | 2.7 | 22 |
| 148 | Crystal-Growth Process of Single-Crystal-like Mesoporous ZnO through a Competitive Reaction in Solution. Crystal Growth and Design, 2012, 12, 2923-2931. | 3.0 | 22 |
| 149 | A hydrophobic adsorbent based on hierarchical porous polymers derived from morphologies of a biomineral. Chemical Communications, 2015, 51, 7919-7922. | 4.1 | 22 |
| 150 | Spinel-Type MgMn<sub>2</sub>O<sub>4</sub> Nanoplates with Vanadate Coating for a Positive Electrode of Magnesium Rechargeable Batteries. Langmuir, 2020, 36, 8537-8542. | 3.5 | 22 |
| 151 | Effects of introduction of sodium and water on second-order nonlinearity in poled synthetic silica glass. Journal of Applied Physics, 1998, 84, 5415-5418. | 2.5 | 21 |
| 152 | Anisotropic Growth of Silver Crystals with Ethylenediamine Tetraacetate and Formation of Planar and Stacked Wires. Crystal Growth and Design, 2005, 5, 1073-1077. | 3.0 | 21 |
| 153 | Photoluminescence of nitrogen-doped anatase. Materials Chemistry and Physics, 2008, 111, 486-490. | 4.0 | 21 |
| 154 | Fibrous nanocrystals of hydroxyapatite loaded with TiO2 nanoparticles for the capture and photocatalytic decomposition of specific proteins. Colloids and Surfaces B: Biointerfaces, 2010, 79, 131-135. | 5.0 | 21 |
| 155 | Control of cellular activity of fibroblasts on size-tuned fibrous hydroxyapatite nanocrystals. Acta Biomaterialia, 2011, 7, 1290-1297. | 8.3 | 21 |
| 156 | Fabrication of Dielectric Nanocubes in Ordered Structure by Capillary Force Assisted Self-Assembly Method and Their Piezoresponse Properties. Journal of Nanoscience and Nanotechnology, 2012, 12, 3853-3861. | 0.9 | 21 |
| 157 | Solvent-free synthesis, coating and morphogenesis of conductive polymer materials through spontaneous generation of activated monomers. Chemical Communications, 2014, 50, 11840-11843. | 4.1 | 21 |
| 158 | Mesoscopic crystallographic textures on shells of a hyaline radial foraminifer Ammonia beccarii. CrystEngComm, 2016, 18, 7135-7139. | 2.6 | 21 |
| 159 | Multistep crystal growth of oriented fluorapatite nanorod arrays for fabrication of enamel-like architectures on a polymer sheet. CrystEngComm, 2017, 19, 669-674. | 2.6 | 21 |
| 160 | Emergence of temperature-dependent and reversible color-changing properties by the stabilization of layered polydiacetylene through intercalation. Polymer Journal, 2018, 50, 319-326. | 2.7 | 21 |
| 161 | Redox-Mediated High-Yield Exfoliation of Layered Composites into Nanosheets. Bulletin of the Chemical Society of Japan, 2019, 92, 779-784. | 3.2 | 21 |
| 162 | Formation of cellular films consisting of wurtzite-type zinc oxide nanosheets by mediation of phosphate anions. Thin Solid Films, 2005, 489, 23-30. | 1.8 | 20 |

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