

Hiroaki Imai

List of Publications by Year in descending order

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373
papers

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citations

26630

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388
all docs

388
docs citations

388
times ranked

12176
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse modeling for small data: case studies in controlled synthesis of 2D materials. , 2022, 1, 26-34.		11
2	Electroless nickel plating on a biomineral-based sponge structure. Materials Advances, 2022, 3, 931-936.	5.4	6
3	Performance Predictors for Organic Cathodes of Lithium-Ion Battery. ACS Applied Energy Materials, 2022, 5, 2074-2082.	5.1	8
4	Designed nanostructures created <i>via</i> physicochemical switching of the growth mode between single crystals and mesocrystals. Nanoscale Advances, 2022, 4, 1538-1544.	4.6	1
5	Characterization of calcite spines of planktonic foraminifers (Globigerinidae). CrystEngComm, 2022, 24, 2446-2450.	2.6	1
6	Micro- and nanometric characterization of the celestite skeleton of acantharian species (Radiolaria,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	2
7	A nonclassical pathway to biomimetic strained SrSO ₄ crystals. CrystEngComm, 2022, 24, 4356-4360.	2.6	3
8	Ultrastructure of setae of a planktonic diatom, Chaetoceros coarctatus. Scientific Reports, 2022, 12, 7568.	3.3	0
9	A Capacity-Prediction Model for Exploration of Organic Anodes: Discovery of 5-Formylsalicylic Acid as a High-Performance Anode Active Material. ACS Applied Energy Materials, 2022, 5, 8990-8998.	5.1	5
10	Quantitative evaluation of reversed-phase packing material based on calcium carbonate microspheres modified with an alternating copolymer. Journal of Chromatography A, 2022, 1677, 463294.	3.7	4
11	Diatom-mimetic channeled mesoporous silica membranes: self-organized formation of a hierarchical porous framework. Materials Chemistry Frontiers, 2021, 5, 862-868.	5.9	1
12	Morphological study of fibrous aragonite in the skeletal framework of a stony coral. CrystEngComm, 2021, 23, 3693-3700.	2.6	7
13	Yield-prediction models for efficient exfoliation of soft layered materials into nanosheets. Chemical Communications, 2021, 57, 5921-5924.	4.1	12
14	Wide-area multilayered self-assembly of fluorapatite nanorods vertically oriented on a substrate as a non-classical crystal growth. Nanoscale, 2021, 13, 9698-9705.	5.6	5
15	Effective 3D open-channel nanostructures of a MgMn ₂ O ₄ positive electrode for rechargeable Mg batteries operated at room temperature. Journal of Materials Chemistry A, 2021, 9, 6851-6860.	10.3	19
16	Synthesis of Structured Spinel Oxide Positive Electrodes to Improve Electrochemical Performance. , 2021, , 515-520.		0
17	Morphological evolution of carbonated hydroxyapatite to faceted nanorods through intermediate states. CrystEngComm, 2021, 23, 2968-2972.	2.6	2
18	Lateral-size control of exfoliated transition-metal oxide 2D materials by machine learning on small data. Nanoscale, 2021, 13, 3853-3859.	5.6	19

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19	Ultrahighly Sensitive Compression Stress Sensor Using Integrated Stimuli-Responsive Materials. <i>Advanced Materials</i> , 2021, 33, e2008755.	21.0	47
20	Cellulose intrafibrillar mineralization of biological silica in a rice plant. <i>Scientific Reports</i> , 2021, 11, 7886.	3.3	6
21	Self-Assembly of 2D Nematic and Random Arrays of Sterically Stabilized Nanoscale Rods with and without Evaporation. <i>Langmuir</i> , 2021, 37, 6533-6539.	3.5	2
22	A Layered Polydiacetylene Containing Hydrogen-Bonding 4,4'-Bipyridyl Guests: Reversible Color Changes with a Wide-Range Temperature Response. <i>ChemPlusChem</i> , 2021, 86, 1563-1568.	2.8	2
23	Size-Distribution Control of Exfoliated Nanosheets Assisted by Machine Learning: Small-Data-Driven Materials Science Using Sparse Modeling. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100158.	2.8	7
24	Preparation of titania with double band structure derived from a quantum size effect: Drastic increase in the photocatalytic activity. <i>Materials Letters</i> , 2021, 304, 130609.	2.6	3
25	Phase Transition Behavior of $MgMn_2O_4$ Spinel Oxide Cathode during Magnesium Ion Insertion. <i>Chemistry of Materials</i> , 2021, 33, 1006-1012.	6.7	24
26	Phenylphosphonate surface functionalisation of $MgMn_2O_4$ with 3D open-channel nanostructures for composite slurry-coated cathodes of rechargeable magnesium batteries operated at room temperature. <i>RSC Advances</i> , 2021, 11, 19076-19082.	3.6	14
27	Efficient photocatalytic conversion of benzene to phenol on stabilized subnanometer WO_3 quantum dots. <i>Catalysis Science and Technology</i> , 2021, 11, 6537-6542.	4.1	6
28	A Layered Polydiacetylene Containing Hydrogen-Bonding 4,4'-Bipyridyl Guests: Reversible Color Changes with a Wide-Range Temperature Response. <i>ChemPlusChem</i> , 2021, 86, 1546.	2.8	1
29	Emergence of practical fluorescence in a confined space of nanoporous silica: significantly enhanced quantum yields of a conjugated molecule. <i>Chemical Communications</i> , 2021, 57, 13150-13153.	4.1	4
30	Structured spinel oxide positive electrodes of magnesium rechargeable batteries: High rate performance and high cyclability by interconnected bimodal pores and vanadium oxide coating. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152556.	5.5	26
31	A paper-based device of a specially designed soft layered polymer composite for measurement of weak friction force. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1265-1272.	5.5	24
32	Visualization and Quantification of Microwaves Using Thermoresponsive Color-Change Hydrogel. <i>ACS Sensors</i> , 2020, 5, 133-139.	7.8	28
33	Conjugated Polymers: Solid-State Low-Temperature Thermoresponsive and Reversible Color Changes of Conjugated Polymer in Layered Structure: Beyond Infrared Thermography (Small 41/2020). <i>Small</i> , 2020, 16, 2070227.	10.0	3
34	Solid-State Low-Temperature Thermoresponsive and Reversible Color Changes of Conjugated Polymer in Layered Structure: Beyond Infrared Thermography. <i>Small</i> , 2020, 16, e2004586.	10.0	12
35	Strained calcite crystals from amorphous calcium carbonate containing an organic molecule. <i>CrystEngComm</i> , 2020, 22, 7054-7058.	2.6	5
36	Amorphous flexible covalent organic networks containing redox-active moieties: a noncrystalline approach to the assembly of functional molecules. <i>Chemical Science</i> , 2020, 11, 7003-7008.	7.4	14

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37	Efficient Syntheses of 2D Materials from Soft Layered Composites Guided by Yield Prediction Model: Potential of Experiment-Oriented Materials Informatics. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000084.	2.8	15
38	Enhancement of coercivity of self-assembled stacking of ferrimagnetic and antiferromagnetic nanocubes. <i>Nanoscale</i> , 2020, 12, 7792-7796.	5.6	9
39	Formation processes, size changes, and properties of nanosheets derived from exfoliation of soft layered inorganic-organic composites. <i>Nanoscale Advances</i> , 2020, 2, 1168-1176.	4.6	11
40	Biomimetic Morphology-Controlled Anhydrous Guanine via an Amorphous Intermediate. <i>Crystal Growth and Design</i> , 2020, 20, 3341-3346.	3.0	9
41	Spinel-Type MgMn_2O_4 Nanoplates with Vanadate Coating for a Positive Electrode of Magnesium Rechargeable Batteries. <i>Langmuir</i> , 2020, 36, 8537-8542.	3.5	22
42	Thermally induced fragmentation of nanoscale calcite. <i>RSC Advances</i> , 2020, 10, 6088-6091.	3.6	5
43	Guanine crystals regulated by chitin-based honeycomb frameworks for tunable structural colors of sapphirinid copepod, <i>Sapphirina nigromaculata</i> . <i>Scientific Reports</i> , 2020, 10, 2266.	3.3	16
44	Highly porous polymer dendrites of pyrrole derivatives synthesized through rapid oxidative polymerization. <i>Polymer Journal</i> , 2019, 51, 11-18.	2.7	11
45	Amorphous 2D materials containing a conjugated-polymer network. <i>Communications Chemistry</i> , 2019, 2, .	4.5	31
46	A biomimetic hybrid material consisting of CaCO_3 mesoporous microspheres and an alternating copolymer for reversed-phase HPLC. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4771-4777.	5.8	7
47	Highly Dispersive Mono-sized Nanoparticles of Y_2O_3 -stabilized ZrO_2 . <i>Chemistry Letters</i> , 2019, 48, 390-393.	1.3	2
48	Experiment-Oriented Materials Informatics for Efficient Exploration of Design Strategy and New Compounds for High-Performance Organic Anode. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900130.	2.8	18
49	Glass-transition-induced color-changing resins containing layered polydiacetylene. <i>Chemical Communications</i> , 2019, 55, 11723-11726.	4.1	5
50	Carbon nitride and titania nanoparticles prepared using porous silica templates and photocatalytic activity. <i>Materials Letters</i> , 2019, 256, 126600.	2.6	3
51	Redox-Mediated High-Yield Exfoliation of Layered Composites into Nanosheets. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 779-784.	3.2	21
52	Evolution of Co_3O_4 Nanocubes through Stepwise Oriented Attachment. <i>Langmuir</i> , 2019, 35, 8025-8030.	3.5	12
53	Modifications in coordination structure of $\text{Mg}[\text{TFSA}]_2$ -based supporting salts for high-voltage magnesium rechargeable batteries. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12100-12111.	2.8	50
54	Quantitative detection of near-infrared (NIR) light using organic layered composites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4089-4095.	5.5	30

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55	Supermicroporous Silica Nanograins: Synthesis and Application. <i>Langmuir</i> , 2019, 35, 5594-5598.	3.5	4
56	Bending Fibers of Hydroxyapatite for Ordered Parallel Architecture in Bovine Tooth Enamel. <i>ACS Omega</i> , 2019, 4, 3739-3744.	3.5	3
57	Enhanced oxide-ion conductivity of solid-state electrolyte mesocrystals. <i>Nanoscale</i> , 2019, 11, 4523-4530.	5.6	7
58	Enhanced Quantum Yield of Nanographenes Incorporated in Supermicroporous Silicas and the Co-Adsorption Effect of Water Molecules. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 923-926.	3.2	3
59	Evaporation-driven manipulation of nanoscale brickwork structures for the design of 1D, 2D, and 3D microarrays of rectangular building blocks. <i>CrystEngComm</i> , 2019, 21, 6905-6914.	2.6	6
60	Pyrolytic Production of Fluorescent Pyrene Derivatives Produced in the Confined Space of Super-Microporous Silicas. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1170-1174.	3.2	7
61	Materials Informatics-Assisted High-Yield Synthesis of 2D Nanomaterials through Exfoliation. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800180.	2.8	26
62	Artificial mineral films similar to biogenic calcareous shells: oriented calcite nanorods on a self-standing polymer sheet. <i>CrystEngComm</i> , 2018, 20, 1656-1661.	2.6	9
63	Emergence of temperature-dependent and reversible color-changing properties by the stabilization of layered polydiacetylene through intercalation. <i>Polymer Journal</i> , 2018, 50, 319-326.	2.7	21
64	Enhanced electrochemical properties of MgCo ₂ O ₄ mesocrystals as a positive electrode active material for Mg batteries. <i>Journal of Alloys and Compounds</i> , 2018, 739, 793-798.	5.5	38
65	Layer-by-layer manipulation of anisotropic nanoblocks: orientation-switched superlattices through orthogonal stacking of <i>a</i> and <i>c</i> directions. <i>Nanoscale</i> , 2018, 10, 12957-12962.	5.6	5
66	Nanoscale Mosaic Works: Tetragonal Lattices of Iso-Oriented Heterogeneous Nanocubes. <i>Langmuir</i> , 2018, 34, 4031-4035.	3.5	9
67	Enhanced Quantum Yield of Fluorophores in Confined Spaces of Supermicroporous Silicas. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 87-91.	3.2	12
68	Few-layered titanate nanosheets with large lateral size and surface functionalization: potential for the controlled exfoliation of inorganic-organic layered composites. <i>Chemical Communications</i> , 2018, 54, 244-247.	4.1	23
69	Biomimetic macroscopic mesocrystalline films produced by oriented assembly of nanorods under magnetic field. <i>Nanoscale</i> , 2018, 10, 22161-22165.	5.6	3
70	Layer-by-Layer Manipulation of Heterogeneous Rectangular Nanoblocks: Brick Work for Multilayered Structures with Specific Heterojunction. <i>Inorganic Chemistry</i> , 2018, 57, 11655-11661.	4.0	14
71	Tunable Stimuli-Responsive Color-Change Properties of Layered Organic Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1804906.	14.9	48
72	Multistage redox reactions of conductive-polymer nanostructures with lithium ions: potential for high-performance organic anodes. <i>NPG Asia Materials</i> , 2018, 10, 397-405.	7.9	37

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73	Visualization and Quantitative Detection of Friction Force by Self-Organized Organic Layered Composites. <i>Advanced Materials</i> , 2018, 30, e1801121.	21.0	74
74	Two-Dimensional Conductive and Redox-Active Nanostructures Synthesized by Crystal-Controlled Polymerization for Electrochemical Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 4218-4226.	5.0	9
75	Biogenic and Bio-inspired Syntheses of Hierarchically Structured Iron Compounds for Lithium-Ion Batteries. , 2018, , 157-173.		0
76	Ultraviolet (UV) Irradiation. , 2018, , 569-583.		0
77	Multistep crystal growth of oriented fluorapatite nanorod arrays for fabrication of enamel-like architectures on a polymer sheet. <i>CrystEngComm</i> , 2017, 19, 669-674.	2.6	21
78	Significant Increase in Band Gap and Emission Efficiency of In ₂ O ₃ Quantum Dots by Size-Tuning around 1 nm in Supermicroporous Silicas. <i>Langmuir</i> , 2017, 33, 3014-3017.	3.5	24
79	Coupled Exfoliation and Surface Functionalization of Titanate Monolayer for Bandgap Engineering. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601014.	3.7	11
80	Effects of nanostructured biosilica on rice plant mechanics. <i>RSC Advances</i> , 2017, 7, 13065-13071.	3.6	20
81	Synthesis of a poly(amidoamine) dendrimer having a 1,10-bis(decyloxy)decane core and its use in fabrication of carbon nanotube/calcium carbonate hybrids through biomimetic mineralization. <i>Canadian Journal of Chemistry</i> , 2017, 95, 935-941.	1.1	6
82	Bandgap Engineering: Coupled Exfoliation and Surface Functionalization of Titanate Monolayer for Bandgap Engineering (<i>Adv. Mater. Interfaces</i> 7/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	3.7	0
83	Phase separation of composite materials through simultaneous polymerization and crystallization. <i>NPG Asia Materials</i> , 2017, 9, e377-e377.	7.9	12
84	Hierarchical bicontinuous structure of redox-active organic composites and their enhanced electrochemical properties. <i>Chemical Communications</i> , 2017, 53, 7329-7332.	4.1	8
85	Real-Time Imaging of 2D and 3D Temperature Distribution: Coating of Metal-Ion-Intercalated Organic Layered Composites with Tunable Stimuli-Responsive Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16546-16552.	8.0	39
86	Substrate coating by conductive polymers through spontaneous oxidation and polymerization. <i>Nanoscale</i> , 2017, 9, 7895-7900.	5.6	11
87	Self-Organized Formation of Parallel-Banded Structures through Synchronization of Twisted Growth. <i>Crystal Growth and Design</i> , 2017, 17, 3694-3699.	3.0	3
88	Stepwise Rotation of Nanometric Building Blocks in the Aragonite Helix of a Pteropod Shell. <i>Crystal Growth and Design</i> , 2017, 17, 191-196.	3.0	8
89	Ultrasensitive Detection of Methylmercaptan Gas Using Layered Manganese Oxide Nanosheets with a Quartz Crystal Microbalance Sensor. <i>Analytical Chemistry</i> , 2017, 89, 12123-12130.	6.5	20
90	Polymer-assisted shapeable synthesis of porous frameworks consisting of silica nanoparticles with mechanical property tuning. <i>Polymer Journal</i> , 2017, 49, 825-830.	2.7	6

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91	Tunable Mechano-responsive Color-Change Properties of Organic Layered Material by Intercalation. <i>CheM</i> , 2017, 3, 509-521.	11.7	42
92	Effects of the intercalation rate on the layered crystal structures and stimuli-responsive color-change properties of polydiacetylene. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8250-8255.	5.5	33
93	Dispersion of hydroxyapatite nanocrystals stabilized by polymeric molecules bearing carboxy and sulfo groups. <i>Colloid and Polymer Science</i> , 2017, 295, 1491-1498.	2.1	2
94	Spatial Control of Crystallographic Direction in 2D Microarrays of Anisotropic Nanoblocks on Trenched Substrates. <i>Langmuir</i> , 2017, 33, 13805-13810.	3.5	8
95	Hierarchical textures on aragonitic shells of the hyaline radial foraminifer <i>Hoeglundina elegans</i> . <i>CrystEngComm</i> , 2017, 19, 7191-7196.	2.6	5
96	Conductive Polymer Nanosheets Generated from the Crystal Surface of an Organic Oxidant. <i>ChemPlusChem</i> , 2017, 82, 177-180.	2.8	10
97	Two exfoliation approaches for organic layered compounds: hydrophilic and hydrophobic polydiacetylene nanosheets. <i>Chemical Science</i> , 2017, 8, 647-653.	7.4	39
98	Evolution of Calcite Nanocrystals through Oriented Attachment and Fragmentation: Multistep Pathway Involving Bottom-Up and Break-Down Stages. <i>ACS Omega</i> , 2017, 2, 8997-9001.	3.5	12
99	Synthesis of dispersible nanosheets based on monolayer clays with imidazolium and ammonium cations having long-chain alkyl groups. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 353-356.	1.1	0
100	Evolution analysis of $V_2O_5 \cdot nH_2O$ gels for preparation of xerogels having a high specific surface area and their replicas. <i>RSC Advances</i> , 2017, 7, 35711-35716.	3.6	12
101	Oriented Attachment of Calcite Nanocrystals: Formation of Single-Crystalline Configurations as 3D Bundles via Lateral Stacking of 1D Chains. <i>Langmuir</i> , 2017, 33, 1516-1520.	3.5	6
102	Ultraviolet (UV) Irradiation. , 2017, , 1-15.		0
103	1D oriented attachment of calcite nanocrystals: formation of single-crystalline rods through collision. <i>RSC Advances</i> , 2016, 6, 61346-61350.	3.6	14
104	Tuning of photocatalytic reduction by conduction band engineering of semiconductor quantum dots with experimental evaluation of the band edge potential. <i>Chemical Communications</i> , 2016, 52, 6185-6188.	4.1	16
105	UV-induced epitaxial attachment of TiO_2 nanocrystals in molecularly mediated 1D and 2D alignments. <i>Chemical Communications</i> , 2016, 52, 7545-7548.	4.1	13
106	Orientation-Selective Alignments of Hydroxyapatite Nanoblocks through Epitaxial Attachment in <i>a</i> and <i>c</i> Directions. <i>Langmuir</i> , 2016, 32, 4066-4070.	3.5	7
107	Tunable photochemical properties of a covalently anchored and spatially confined organic polymer in a layered compound. <i>Nanoscale</i> , 2016, 8, 11076-11083.	5.6	14
108	Bio-inspired synthesis of $xLi_2MnO_3 \cdot (1-x)LiNi_{0.33}Co_{0.33}Mn_{0.33}O_2$ lithium-rich layered cathode materials. <i>Materials and Design</i> , 2016, 109, 718-725.	7.0	24

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109	Incorporation of Redox-active Guest in Conductive and Redox-active Host: Hierarchically Structured Composite of a Conductive Polymer and Quinone Derivative. <i>Chemistry Letters</i> , 2016, 45, 324-326.	1.3	9
110	Mesoscopic crystallographic textures on shells of a hyaline radial foraminifer <i>Ammonia beccarii</i> . <i>CrystEngComm</i> , 2016, 18, 7135-7139.	2.6	21
111	Dendritic Growth of NaCl Crystals in a Gel Matrix: Variation of Branching and Control of Bending. <i>Crystal Growth and Design</i> , 2016, 16, 4278-4284.	3.0	33
112	Plant opal-mimetic bunching silica nanoparticles mediated by long-chain polyethyleneimine. <i>RSC Advances</i> , 2016, 6, 1301-1306.	3.6	4
113	Switchable oriented attachment and detachment of calcite nanocrystals. <i>CrystEngComm</i> , 2016, 18, 8999-9002.	2.6	8
114	Evaporation-driven regularization of crystallographically ordered arrangements of truncated nanoblocks: from 1D chains to 2D rhombic superlattices. <i>CrystEngComm</i> , 2016, 18, 6138-6142.	2.6	14
115	Mesostructured crystals: Growth processes and features. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2016, 62, 212-226.	4.0	26
116	Aragonite Nanorod Arrays through Molecular Controlled Growth on Single-Crystalline Substrate and Polysaccharide Surface. <i>Crystal Growth and Design</i> , 2016, 16, 3741-3747.	3.0	11
117	Surface-functionalized hydrophilic monolayer of titanate and its application for dopamine detection. <i>Chemical Communications</i> , 2016, 52, 9466-9469.	4.1	18
118	Intercalation-Induced Tunable Stimuli-Responsive Color-Change Properties of Crystalline Organic Layered Compound. <i>Advanced Functional Materials</i> , 2016, 26, 3463-3471.	14.9	35
119	Stimuli-Responsive Materials: Intercalation-Induced Tunable Stimuli-Responsive Color-Change Properties of Crystalline Organic Layered Compound (<i>Adv. Funct. Mater.</i> 20/2016). <i>Advanced Functional Materials</i> , 2016, 26, 3462-3462.	14.9	4
120	Orientation-selective alignments of nanoblocks in a and c directions of a tetragonal system through molecularly mediated manipulation. <i>Chemical Communications</i> , 2016, 52, 5597-5600.	4.1	5
121	Selectively assembled 2D microarrays from binary nanocrystals. <i>CrystEngComm</i> , 2016, 18, 3008-3014.	2.6	6
122	Morphology and Orientation Control of Organic Crystals in Organic Media through Advanced Biomimetic Approach. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1459-1465.	3.2	6
123	Inverse pH-response of Temperature-sensitive Copolymers by Combination with Porous CaCO ₃ Framework. <i>Chemistry Letters</i> , 2015, 44, 1425-1427.	1.3	1
124	Microwave-assisted rapid synthesis of anatase TiO ₂ nanosized particles in an ionic liquid-water system. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 79-82.	1.1	8
125	Hierarchical CaCO ₃ Chromatography: A Stationary Phase Based on Biominerals. <i>Chemistry - A European Journal</i> , 2015, 21, 5034-5040.	3.3	10
126	Hydrophobic monolayered nanoflakes of tungsten oxide: coupled exfoliation and fracture in a nonpolar organic medium. <i>Chemical Communications</i> , 2015, 51, 10046-10049.	4.1	20

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127	Surface-functionalized monolayered nanodots of a transition metal oxide and their properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32498-32504.	2.8	12
128	Polymer-mediated dendritic growth of a transition metal salt crystal as a template for morphogenesis. <i>Polymer Journal</i> , 2015, 47, 183-189.	2.7	12
129	Dynamic adsorption of toluene on pore-size tuned supermicroporous silicas. <i>Microporous and Mesoporous Materials</i> , 2015, 214, 41-44.	4.4	18
130	Fabrication of self-standing films consisting of enamel-like oriented nanorods using artificial peptide. <i>CrystEngComm</i> , 2015, 17, 5551-5555.	2.6	18
131	Controlled radical polymerization of styrene with magnetic iron oxides prepared through hydrothermal, bioinspired, and bacterial processes. <i>RSC Advances</i> , 2015, 5, 51122-51129.	3.6	2
132	Fabrication of nanocellulose-hydroxyapatite composites and their application as water-resistant transparent coatings. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5858-5863.	5.8	39
133	Formation of Monocrystalline 1D and 2D Architectures via Epitaxial Attachment: Bottom-Up Routes through Surfactant-Mediated Arrays of Oriented Nanocrystals. <i>Langmuir</i> , 2015, 31, 6197-6201.	3.5	20
134	Fabrication of Transparent ZnO Thick Film with Unusual Orientation by the Chemical Bath Deposition. <i>Crystal Growth and Design</i> , 2015, 15, 3150-3156.	3.0	12
135	Advanced Biomimetic Approach for Crystal Growth in Nonaqueous Media: Morphology and Orientation Control of Pentacosadiynoic Acid and Applications. <i>Chemistry of Materials</i> , 2015, 27, 2627-2632.	6.7	29
136	Switchable dispersivity and molecular-trapping performance of mesostructured CaCO ₃ -thermosensitive polymer composite microspheres. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3604-3608.	5.8	2
137	Crystal-surface-induced simultaneous synthesis and hierarchical morphogenesis of conductive polymers. <i>Chemical Communications</i> , 2015, 51, 9698-9701.	4.1	17
138	A hydrophobic adsorbent based on hierarchical porous polymers derived from morphologies of a biomineral. <i>Chemical Communications</i> , 2015, 51, 7919-7922.	4.1	22
139	Oscillatory growth for twisting crystals. <i>Chemical Communications</i> , 2015, 51, 8516-8519.	4.1	11
140	Application of biogenic iron phosphate for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 68751-68757.	3.6	3
141	Variation in Mesoscopic Textures of Biogenic and Biomimetic Calcite Crystals. <i>Crystal Growth and Design</i> , 2015, 15, 3755-3761.	3.0	7
142	Conductive polymer-mediated 2D and 3D arrays of Mn ₃ O ₄ nanoblocks and mesoporous conductive polymers as their replicas. <i>Nanoscale</i> , 2015, 7, 18471-18476.	5.6	5
143	Six-armed twin crystals composed of lithium iron silicate nanoplates and their electrochemical properties. <i>CrystEngComm</i> , 2015, 17, 8486-8491.	2.6	8
144	Formation of uniformly sized metal oxide nanocuboids in the presence of precursor grains in an apolar medium. <i>CrystEngComm</i> , 2015, 17, 7477-7481.	2.6	12

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145	VOC decomposition over a wide range of temperatures using thermally stable Cr ⁶⁺ sites in a porous silica matrix. <i>Catalysis Communications</i> , 2015, 72, 161-164.	3.3	11
146	Incorporation of organic crystals into the interspace of oriented nanocrystals: morphologies and properties. <i>Nanoscale</i> , 2015, 7, 3466-3473.	5.6	10
147	Nano-sized cube-shaped single crystalline oxides and their potentials; composition, assembly and functions. <i>Advanced Powder Technology</i> , 2014, 25, 1401-1414.	4.1	39
148	Hydrophobic Inorganic/Organic Composite Nanosheets Based on Monolayers of Transition Metal Oxides. <i>Chemistry of Materials</i> , 2014, 26, 3579-3585.	6.7	52
149	Size-Dependent Thermochromism through Enhanced Electron-Phonon Coupling in 1-nm Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10706-10709.	13.8	18
150	Solvent-free synthesis, coating and morphogenesis of conductive polymer materials through spontaneous generation of activated monomers. <i>Chemical Communications</i> , 2014, 50, 11840-11843.	4.1	21
151	An Experimental Study on the Processes of Hierarchical Morphology Replication by Means of a Mesocrystal: A Case Study of Poly(3,4-ethylenedioxythiophene). <i>Langmuir</i> , 2014, 30, 3236-3242.	3.5	11
152	Basicity-controlled synthesis of Li ₄ Ti ₅ O ₁₂ nanocrystals by a solvothermal method. <i>RSC Advances</i> , 2014, 4, 44124-44129.	3.6	8
153	Direction Control of Oriented Self-Assembly for 1D, 2D, and 3D Microarrays of Anisotropic Rectangular Nanoblocks. <i>Journal of the American Chemical Society</i> , 2014, 136, 3716-3719.	13.7	77
154	Mesocrystals and Their Related Structures as intermediates between single crystals and polycrystals. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 737-747.	1.1	11
155	Band-gap expansion of tungsten oxide quantum dots synthesized in sub-nano porous silica. <i>Chemical Communications</i> , 2013, 49, 8477.	4.1	78
156	Effect of a Boron Additive on the Microstructure and Dielectric Properties of BaTiO ₃ Thin Films Formed by Nanocrystal Deposition. <i>Key Engineering Materials</i> , 2013, 566, 277-280.	0.4	0
157	Microscale pin holders of β -Co(OH) ₂ and LiCoO ₂ having a single-crystalline feature. <i>CrystEngComm</i> , 2013, 15, 6465.	2.6	2
158	Formation of Nanostructured MnO/Co/Solid Electrolyte Ternary Composites as a Durable Anode Material for Lithium-ion Batteries. <i>Chemistry - an Asian Journal</i> , 2013, 8, 760-764.	3.3	12
159	Formation of <i>c</i> -axis-oriented columnar structures through controlled epitaxial growth of hydroxyapatite. <i>Journal of Asian Ceramic Societies</i> , 2013, 1, 143-148.	2.3	15
160	Monolayered Nanodots of Transition Metal Oxides. <i>Journal of the American Chemical Society</i> , 2013, 135, 4501-4508.	13.7	46
161	Artificial peptides binding to the <i>c</i> face of hydroxyapatite obtained by molecular display technology. <i>RSC Advances</i> , 2013, 3, 1885-1889.	3.6	2
162	Synthesis of Li/Mn-O mesocrystals with controlled crystal phases through topotactic transformation of MnCO ₃ . <i>Nanoscale</i> , 2013, 5, 2352.	5.6	43

#	ARTICLE	IF	CITATIONS
163	Synthesis and Morphogenesis of Organic and Inorganic Polymers by Means of Biominerals and Biomimetic Materials. <i>Chemistry - A European Journal</i> , 2013, 19, 2284-2293.	3.3	20
164	Spontaneous Formation of Two-Dimensional Micropatterns with Straight and/or Curving Dendrites through Crystal Growth of Ba(NO ₃) ₂ in Polymer Matrix. <i>Crystal Growth and Design</i> , 2013, 13, 3011-3017.	3.0	7
165	BaTiO ₃ nanocube and assembly to ferroelectric supracrystals. <i>Journal of Materials Research</i> , 2013, 28, 2932-2945.	2.6	31
166	Fabrication and Characterization of Perovskite Nanocube Ordering Structures via Capillary-Force-Assisted Self-Assembly Process. <i>Key Engineering Materials</i> , 2013, 566, 285-288.	0.4	1
167	Syntheses of LiCoO ₂ Mesocrystals by Topotactic Transformation and Their Electrochemical Properties. <i>ChemPlusChem</i> , 2013, 78, 1379-1383.	2.8	15
168	Thin Films that Consist of CuO Mesocrystal Nanosheets: An Application of Microbial-Mineralization-Inspired Approaches to Thin-Film Formation. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2064-2069.	3.3	10
169	A Microbial-Mineralization Approach for Syntheses of Iron Oxides with a High Specific Surface Area. <i>Chemistry - A European Journal</i> , 2013, 19, 4419-4422.	3.3	11
170	Low-temperature syntheses of cubic BaTiO ₃ nanoparticles in highly basic aqueous solution. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 388-392.	1.1	4
171	Formation of trigonal microarrays with cubic Ba(NO ₃) ₂ in a polymer matrix. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 555-558.	1.1	3
172	A Microbial-Mineralization-Inspired Approach for Systematic Syntheses of Copper Oxides with Controlled Morphologies in an Aqueous Solution at Room Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 821-828.	3.2	1
173	Recent advances in mesocrystals and their related structures. <i>SPR Nanoscience</i> , 2012, , 1-28.	0.6	8
174	Fabrication and Characterization of Dielectric Nanocube Self-Assembled Structures. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09LC03.	1.5	8
175	Self-organization of hollow-cone carbonate crystals through molecular control with an acid organic polymer. <i>Polymer Journal</i> , 2012, 44, 612-619.	2.7	28
176	ZnO nano-rectangular framework-like structure from zinc hydroxide acetate plates. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 171-174.	1.1	6
177	Versatile Modification for Highly Dispersive and Functionalized Mesoporous Silica Nanoparticles. <i>Chemistry Letters</i> , 2012, 41, 507-509.	1.3	5
178	Biologically synthesized or bioinspired process-derived iron oxides as catalysts for living cationic polymerization of a vinyl ether. <i>Chemical Communications</i> , 2012, 48, 10904.	4.1	20
179	Enhanced photoconductive properties of a simple composite coaxial nanostructure of zinc oxide and polypyrrole. <i>Journal of Materials Chemistry</i> , 2012, 22, 21195.	6.7	18
180	Oriented Nanocrystal Mosaic in Monodispersed CaCO ₃ Microspheres with Functional Organic Molecules. <i>Crystal Growth and Design</i> , 2012, 12, 876-882.	3.0	46

#	ARTICLE	IF	CITATIONS
181	Morphology and orientation control of guanine crystals: a biogenic architecture and its structure mimetics. <i>Journal of Materials Chemistry</i> , 2012, 22, 22686.	6.7	30
182	Mesocrystal nanosheet of rutile TiO ₂ and its reaction selectivity as a photocatalyst. <i>CrystEngComm</i> , 2012, 14, 1405-1411.	2.6	53
183	Twisted growth of organic crystal in a polymer matrix: sigmoidal and helical morphologies of pyrene. <i>CrystEngComm</i> , 2012, 14, 7444.	2.6	18
184	Morphological variation of hydroxyapatite grown in aqueous solution based on simulated body fluid. <i>CrystEngComm</i> , 2012, 14, 1143-1149.	2.6	43
185	Fabrication of Dielectric Nanocubes in Ordered Structure by Capillary Force Assisted Self-Assembly Method and Their Piezoresponse Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 3853-3861.	0.9	21
186	Electrically Guided Microweb Formation with Ag Nanofibers under UV Irradiation and Its Application to Electrochemical and Plasmonic Devices. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6103-6107.	3.1	3
187	Spontaneous Formation of Sinuous and Wavy Micropatterns with Helical Growth of CuSO ₄ ·5H ₂ O in Polymer Matrix. <i>Crystal Growth and Design</i> , 2012, 12, 4397-4402.	3.0	13
188	Crystal-Growth Process of Single-Crystal-like Mesoporous ZnO through a Competitive Reaction in Solution. <i>Crystal Growth and Design</i> , 2012, 12, 2923-2931.	3.0	22
189	In situ growth BaTiO ₃ nanocubes and their superlattice from an aqueous process. <i>Nanoscale</i> , 2012, 4, 1344.	5.6	105
190	One-Pot Aqueous Solution Syntheses of Iron Oxide Nanostructures with Controlled Crystal Phases through a Microbial-Inspired Approach. <i>Chemistry - A European Journal</i> , 2012, 18, 110-116.	3.3	17
191	Homogeneous and Disordered Assembly of Densely Packed Titanium Oxide Nanocrystals: An Approach to Coupled Synthesis and Assembly in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2012, 18, 2825-2831.	3.3	17
192	Fabrication and Characterization of Dielectric Nanocube Self-Assembled Structures. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09LC03.	1.5	12
193	Synthesis and Morphogenesis of Organic Polymer Materials with Hierarchical Structures in Biominerals. <i>Journal of the American Chemical Society</i> , 2011, 133, 8594-8599.	13.7	49
194	Growth of monodispersed SrTiO ₃ nanocubes by thermohydrolysis method. <i>CrystEngComm</i> , 2011, 13, 3878.	2.6	78
195	Characteristics of Multilayered Nanostructures of CeO ₂ Nanocrystals Self-Assembled on an Enlarged Liquid-Gas Interface. <i>Crystal Growth and Design</i> , 2011, 11, 4129-4134.	3.0	47
196	Control of cellular activity of osteoblastic cells with microtopography of biphasic calcium phosphate scaffolds. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 635-639.	1.1	2
197	Effect of iron acetylacetonate on physico-chemical properties of waterglass based aerogels by ambient pressure drying. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 57, 95-100.	2.4	5
198	Biomimetic Solid-Solution Precursors of Metal Carbonate for Nanostructured Metal Oxides: MnO/Co and MnO-CoO Nanostructures and Their Electrochemical Properties. <i>Advanced Functional Materials</i> , 2011, 21, 3673-3680.	14.9	64

#	ARTICLE	IF	CITATIONS
199	In Vitro Repair of a Biomineral with a Mesocrystal Structure. Chemistry - A European Journal, 2011, 17, 2828-2832.	3.3	16
200	Growth of BaTiO ₃ nanoparticles in ethanol-water mixture solvent under an ultrasound-assisted synthesis. Chemical Engineering Journal, 2011, 170, 333-337.	12.7	36
201	Control of cellular activity of fibroblasts on size-tuned fibrous hydroxyapatite nanocrystals. Acta Biomaterialia, 2011, 7, 1290-1297.	8.3	21
202	Characterization of Dielectric Nanocubes Ordered Structures Fabricated by Solution Self-Assembly Process. Japanese Journal of Applied Physics, 2011, 50, 09NC09.	1.5	11
203	Characterization of Dielectric Nanocubes Ordered Structures Fabricated by Solution Self-Assembly Process. Japanese Journal of Applied Physics, 2011, 50, 09NC09.	1.5	19
204	Nanoscale morphological design of ZnO crystals grown in aqueous solutions. Journal of the Ceramic Society of Japan, 2010, 118, 969-976.	1.1	31
205	Biomimetic Synthesis of Metal Ion-Doped Hierarchical Crystals Using a Gel Matrix: Formation of Cobalt-Doped LiMn ₂ O ₄ with Improved Electrochemical Properties through a Cobalt-Doped MnCO ₃ Precursor. Chemistry - an Asian Journal, 2010, 5, 792-798.	3.3	12
206	Porous superhydrophobic silica films by sol-gel process. Microporous and Mesoporous Materials, 2010, 130, 115-121.	4.4	97
207	Ultrasuperhydrophobic silica films by sol-gel process. Journal of Porous Materials, 2010, 17, 565-571.	2.6	36
208	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
209	A Microbial-Inspired Approach for Synthesis of Manganese Oxide Nanostructures with Controlled Oxidation States and Morphologies. Advanced Functional Materials, 2010, 20, 4279-4286.	14.9	28
210	Homogeneous and Disordered Assembly of Densely Packed Nanocrystals. Advanced Functional Materials, 2010, 20, 4127-4132.	14.9	14
211	Water repellent porous silica films by sol-gel dip coating method. Journal of Colloid and Interface Science, 2010, 352, 30-35.	9.4	79
212	Reduction in the processing time of doped sodium silicate based ambient pressure dried aerogels using shaker. Microporous and Mesoporous Materials, 2010, 134, 93-99.	4.4	16
213	A new effect of ultrasonication on the formation of BaTiO ₃ nanoparticles. Ultrasonics Sonochemistry, 2010, 17, 310-314.	8.2	52
214	Adhesion of osteoblast-like cells on nanostructured hydroxyapatite. Acta Biomaterialia, 2010, 6, 591-597.	8.3	117
215	Control on wetting properties of spin-deposited silica films by surface silylation method. Applied Surface Science, 2010, 256, 2115-2121.	6.1	36
216	Sliding behavior of water drops on sol-gel derived hydrophobic silica films. Applied Surface Science, 2010, 256, 3259-3264.	6.1	44

#	ARTICLE	IF	CITATIONS
217	Fibrous nanocrystals of hydroxyapatite loaded with TiO ₂ nanoparticles for the capture and photocatalytic decomposition of specific proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 131-135.	5.0	21
218	Synthesis and Applications of SnO Nanosheets: Parallel Control of Oxidation State and Nanostructure Through an Aqueous Solution Route. <i>Small</i> , 2010, 6, 776-781.	10.0	78
219	Bioinspired Hierarchical Crystals. <i>MRS Bulletin</i> , 2010, 35, 138-144.	3.5	63
220	Preparation of LiFePO ₄ Mesocrystals Consisting of Nanorods through Organic-Mediated Parallel Growth from a Precursor Phase. <i>Crystal Growth and Design</i> , 2010, 10, 1777-1781.	3.0	37
221	Oriented aggregation of BaTiO ₃ nanocrystals and large particles in the ultrasonic-assistant synthesis. <i>CrystEngComm</i> , 2010, 12, 3441.	2.6	34
222	Characteristics of CeO ₂ Nanocubes and Related Polyhedra Prepared by Using a Liquid-Liquid Interface. <i>Crystal Growth and Design</i> , 2010, 10, 4537-4541.	3.0	94
223	Enhanced photocatalytic activity of quantum-confined tungsten trioxide nanoparticles in mesoporous silica. <i>Chemical Communications</i> , 2010, 46, 5286.	4.1	58
224	Aqueous solution synthesis of SnO nanostructures with tuned optical absorption behavior and photoelectrochemical properties through morphological evolution. <i>Nanoscale</i> , 2010, 2, 2424.	5.6	40
225	Emergence of helical morphologies with crystals: twisted growth under diffusion-limited conditions and chirality control with molecular recognition. <i>CrystEngComm</i> , 2010, 12, 1679.	2.6	39
226	Specific Photocatalytic Performance of Nanostructured Rutile-Type TiO ₂ : Selective Oxidation of Thiazin Dye with a Bundled Architecture Consisting of Oriented Nanoneedles. <i>Science of Advanced Materials</i> , 2010, 2, 69-73.	0.7	9
227	Mn-Doped BaTiO ₃ Thin Film Sintered Using Nanocrystals and Its Dielectric Properties. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 111408.	1.5	10
228	Superhydrophobic silica films by sol-gel co-precursor method. <i>Applied Surface Science</i> , 2009, 256, 217-222.	6.1	190
229	Lithium insertion into nanometer-sized rutile-type Ti _x Sn _{1-x} O ₂ solid solutions. <i>Solid State Ionics</i> , 2009, 180, 956-960.	2.7	22
230	Characteristics of BaTiO ₃ Particles Sonochemically Synthesized in Aqueous Solution. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 09KC02.	1.5	16
231	Magnesium-Mediated Nanocrystalline Mosaics of Calcite. <i>Crystal Growth and Design</i> , 2009, 9, 223-226.	3.0	45
232	Ultralow refractive index coatings consisting of mesoporous silica nanoparticles. <i>Optics Letters</i> , 2009, 34, 2060.	3.3	39
233	Three-dimensional architectures of spinel-type LiMn ₂ O ₄ prepared from biomimetic porous carbonates and their application to a cathode for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2009, 19, 4012.	6.7	50
234	Epitaxial growth of winding ZnO nanowires on a single-crystalline substrate. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 255-257.	1.1	4

#	ARTICLE	IF	CITATIONS
235	Photochemical Reactions in Nanoscopic Organic Domains Generated from Oriented Crystals with Polymers: Nanocrystalline Mosaics as a New Family of Host Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 613-617.	3.2	16
236	Nanosegregated Amorphous Composites of Calcium Carbonate and an Organic Polymer. <i>Advanced Materials</i> , 2008, 20, 3633-3637.	21.0	119
237	A simple preparation technique for shape-controlled zinc oxide nanoparticles: Formation of narrow size-distributed nanorods using seeds in aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 319, 130-135.	4.7	37
238	A nanoscale meshed electrode of single-crystalline SnO for lithium-ion rechargeable batteries. <i>Electrochemistry Communications</i> , 2008, 10, 52-55.	4.7	90
239	Photoluminescence of nitrogen-doped anatase. <i>Materials Chemistry and Physics</i> , 2008, 111, 486-490.	4.0	21
240	Selective Synthesis of Various Nanoscale Morphologies of Hydroxyapatite via an Intermediate phase. <i>Crystal Growth and Design</i> , 2008, 8, 1055-1059.	3.0	75
241	Matrix-Mediated Formation of Hierarchically Structured SnO Crystals As Intermediates between Single Crystals and Polycrystalline Aggregates. <i>Langmuir</i> , 2008, 24, 9038-9042.	3.5	36
242	Nanoparticle-Sintered BaTiO ₃ Thin Films and Its Orientation Control by Solid Phase Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8518-8524.	1.5	11
243	Formation of μ -Fe ₂ O ₃ Nanocrystals through Segregation in Mesoporous Silica Particles. <i>Chemistry Letters</i> , 2008, 37, 814-815.	1.3	4
244	Photocatalytic Activities of Rutile and Anatase Nanoparticles Selectively Prepared from an Aqueous Solution. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 821-825.	1.1	12
245	A hierarchical self-similar structure of oriented calcite with association of an agar gel matrix: inheritance of crystal habit from nanoscale. <i>Chemical Communications</i> , 2007, , 2841.	4.1	64
246	One-Step Synthesis of Nano-“Micro Chestnut TiO ₂ with Rutile Nanopins on the Microanatase Octahedron. <i>ACS Nano</i> , 2007, 1, 273-278.	14.6	112
247	Biomimetic morphological design for manganese oxide and cobalt hydroxide nanoflakes with a mosaic interior. <i>Journal of Materials Chemistry</i> , 2007, 17, 316-321.	6.7	38
248	Tin Oxide Meshes Consisting of Nanoribbons Prepared through an Intermediate Phase in an Aqueous Solution. <i>Crystal Growth and Design</i> , 2007, 7, 841-843.	3.0	59
249	Stereospecific Morphogenesis of Aspartic Acid Helical Crystals through Molecular Recognition. <i>Langmuir</i> , 2007, 23, 5466-5470.	3.5	22
250	Chelation-Mediated Aqueous Synthesis of Metal Oxyhydroxide and Oxide Nanostructures: Combination of Ligand-Controlled Oxidation and Ligand-Cooperative Morphogenesis. <i>Chemistry - A European Journal</i> , 2007, 13, 8564-8571.	3.3	25
251	One-Pot Synthesis of Manganese Oxide Nanosheets in Aqueous Solution: Chelation-Mediated Parallel Control of Reaction and Morphology. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4951-4955.	13.8	115
252	Nanometric morphological variation of zinc oxide crystals using organic molecules with carboxy and sulfonic groups. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 302-311.	9.4	34

#	ARTICLE	IF	CITATIONS
253	Structural control on crystal growth of titanate in aqueous system: Selective production of nanostructures of layered titanate and anatase-type titania. <i>Journal of Crystal Growth</i> , 2007, 308, 117-121.	1.5	11
254	Preparation of Nanotextured and Nanofibrous Hydroxyapatite through Dicalcium Phosphate with Gelatin. <i>Chemistry of Materials</i> , 2006, 18, 229-234.	6.7	89
255	Structural Control of Mesoporous Silica Nanoparticles in a Binary Surfactant System. <i>Langmuir</i> , 2006, 22, 802-806.	3.5	82
256	Polymorph Control of Calcium Carbonate Films in a Poly(acrylic acid)-Chitosan System. <i>Crystal Growth and Design</i> , 2006, 6, 1636-1641.	3.0	56
257	Control of Nanoscale Morphology of Oxide Crystals Using Aqueous Solution Systems. <i>Key Engineering Materials</i> , 2006, 301, 211-214.	0.4	6
258	Fabrication of ZnO Nanoparticles with Various Aspect Ratios through Acidic and Basic Routes. <i>Crystal Growth and Design</i> , 2006, 6, 1054-1056.	3.0	75
259	Selective Preparation of SnO ₂ and SnO Crystals with Controlled Morphologies in an Aqueous Solution System. <i>Crystal Growth and Design</i> , 2006, 6, 2186-2190.	3.0	85
260	Emergence of Acute Morphologies Consisting of Iso-Oriented Calcite Nanobricks in a Binary Poly(Acrylic Acid) System. <i>Crystal Growth and Design</i> , 2006, 6, 612-615.	3.0	40
261	Epitaxial Growth of Wurtzite ZnO Crystals in an Aqueous Solution System. <i>Chemistry Letters</i> , 2006, 35, 442-443.	1.3	12
262	Incorporation of Dyes into Silica-Surfactant Mesostructured Nanoparticles as a Nanoscale Host Material for Organic Molecules. <i>Chemistry Letters</i> , 2006, 35, 880-881.	1.3	10
263	Development of Ordered Calcium Carbonate Microarrays from Polymorph Specific Planar Films. <i>Chemistry Letters</i> , 2006, 35, 204-205.	1.3	13
264	A Biomimetic Approach for Hierarchically Structured Inorganic Crystals through Self-Organization. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 1834-1851.	3.2	129
265	Nanoengineering in Echinoderms: The Emergence of Morphology from Nanobricks. <i>Small</i> , 2006, 2, 66-70.	10.0	151
266	Bottom-Up Synthesis of Titanate Nanosheets with Hierarchical Structures and a High Specific Surface Area. <i>Small</i> , 2006, 2, 390-393.	10.0	66
267	Biomimetic Synthesis of Wurtzite ZnO Nanowires Possessing a Mosaic Structure. <i>Small</i> , 2006, 2, 1183-1187.	10.0	30
268	Relationship between mesostructures and pH conditions for the formation of silica-cationic surfactant complexes. <i>Microporous and Mesoporous Materials</i> , 2006, 95, 200-205.	4.4	25
269	{111}-faceting of low-temperature processed rutile TiO ₂ rods. <i>Journal of Crystal Growth</i> , 2006, 293, 541-545.	1.5	95
270	Low-temperature preparation of dye-sensitized solar cells through crystal growth of anatase titania in aqueous solutions. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 640-648.	6.2	24

#	ARTICLE	IF	CITATIONS
271	Fabrication of mesoporous ZnO nanosheets from precursor templates grown in aqueous solutions. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 39, 63-72.	2.4	115
272	Preparation of hierarchically organized calcium phosphate-organic polymer composites by calcification of hydrogel. <i>Science and Technology of Advanced Materials</i> , 2006, 7, 219-225.	6.1	63
273	Morphological Design of Zinc Oxide Films Grown in Aqueous Solutions. <i>Key Engineering Materials</i> , 2006, 320, 155-158.	0.4	4
274	Self-Organized Formation of Hierarchical Structures. , 2006, , 43-72.		85
275	Characteristically shaped ZnO particles produced by periodic precipitation in organic gel media. <i>Journal of Crystal Growth</i> , 2005, 283, 490-499.	1.5	11
276	The Hierarchical Architecture of Nacre and Its Mimetic Material. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6571-6575.	13.8	223
277	A novel adsorbent photocatalyst consisting of titania and mesoporous silica nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 123, 248-251.	3.5	12
278	Formation of cellular films consisting of wurtzite-type zinc oxide nanosheets by mediation of phosphate anions. <i>Thin Solid Films</i> , 2005, 489, 23-30.	1.8	20
279	Synthesis and structural characterization of thermally stable Pt/SnO ₂ nanocomposite particles. <i>Nanotechnology</i> , 2005, 16, 1396-1399.	2.6	4
280	Fabrication of two- and three-dimensional photonic crystals of titania with submicrometer resolution by deep x-ray lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 934.	1.6	25
281	Anisotropic Growth of Silver Crystals with Ethylenediamine Tetraacetate and Formation of Planar and Stacked Wires. <i>Crystal Growth and Design</i> , 2005, 5, 1073-1077.	3.0	21
282	Hierarchically organized architecture of potassium hydrogen phthalate and poly(acrylic acid): toward a general strategy for biomimetic crystal design. <i>Chemical Communications</i> , 2005, , 6011.	4.1	47
283	Fabrication of highly porous and micropatterned SnO ₂ films by oxygen bubbles generated on the anode electrode. <i>Chemical Communications</i> , 2005, , 2609.	4.1	11
284	Crystal growth of metastable rutile-type TixSn1-xO ₂ solid solutions in an aqueous system. <i>Chemical Communications</i> , 2005, , 6014.	4.1	26
285	Morphological Evolution of Inorganic Crystal into Zigzag and Helical Architectures with an Exquisite Association of Polymer: A Novel Approach for Morphological Complexity. <i>Langmuir</i> , 2005, 21, 863-869.	3.5	58
286	Evolution of Nanoscale SnO ₂ Grains, Flakes, and Plates into Versatile Particles and Films through Crystal Growth in Aqueous Solutions. <i>Crystal Growth and Design</i> , 2005, 5, 1079-1083.	3.0	96
287	Preparation of titania foams having an open cellular structure and their application to photocatalysis. <i>Journal of Catalysis</i> , 2004, 226, 462-465.	6.2	26
288	Non-Basic Solution Routes to Prepare ZnO Nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 29, 71-79.	2.4	130

#	ARTICLE	IF	CITATIONS
289	Emergence of Morphological Chirality from Twinned Crystals. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1363-1368.	13.8	80
290	Growth of layered basic zinc acetate in methanolic solutions and its pyrolytic transformation into porous zinc oxide films. <i>Journal of Colloid and Interface Science</i> , 2004, 272, 391-398.	9.4	172
291	Morphological Evaluation and Film Formation with Iso-Oriented Calcite Crystals Using Binary Poly(Acrylic Acid). <i>Chemistry of Materials</i> , 2004, 16, 3191-3196.	6.7	73
292	Formation of Planar Aragonite-Type Carbonate Crystals Consisting of Iso-Oriented Subunits. <i>Crystal Growth and Design</i> , 2004, 4, 725-729.	3.0	14
293	Grain Size Control of Mesoporous Silica and Formation of Bimodal Pore Structures. <i>Langmuir</i> , 2004, 20, 11504-11508.	3.5	49
294	Amplification of Chirality from Molecules into Morphology of Crystals through Molecular Recognition. <i>Journal of the American Chemical Society</i> , 2004, 126, 9271-9275.	13.7	109
295	Growth of Submicrometer-Scale Rectangular Parallelepiped Rutile TiO ₂ Films in Aqueous TiCl ₃ Solutions under Hydrothermal Conditions. <i>Journal of the American Chemical Society</i> , 2004, 126, 7790-7791.	13.7	396
296	Synthesis of Silica Nanoparticles Having a Well-Ordered Mesostructure Using a Double Surfactant System. <i>Journal of the American Chemical Society</i> , 2004, 126, 462-463.	13.7	353
297	Hydrothermal Routes To Prepare Nanocrystalline Mesoporous SnO ₂ Having High Thermal Stability. <i>Langmuir</i> , 2004, 20, 6476-6481.	3.5	171
298	Preparation of mesoporous titania gel films and their characterization. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 266-270.	3.1	11
299	Preparation and characterization of mesoporous titania-alumina ceramic by modified sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 271-276.	3.1	34
300	Preparation of Porous SnO ₂ Particles Having High Specific Surface Area and High Thermal Stability via an Aqueous Solution Route and Subsequent Hydrothermal Treatment. <i>Chemistry Letters</i> , 2004, 33, 738-739.	1.3	7
301	Phosphate-mediated ZnO Nanosheets with a Mosaic Structure. <i>Chemistry Letters</i> , 2004, 33, 768-769.	1.3	29
302	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 28, 97-104.	2.4	29
303	Preparation and Characterization of Porous Titania by Modified Sol-Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 635-640.	2.4	11
304	Structure of Hybrid Silica Gels Incorporated with Hydrophobic Dye Molecules. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 383-388.	2.4	15
305	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 181-184.	2.4	26
306	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 27, 91-95.	2.4	35

#	ARTICLE	IF	CITATIONS
307	Layer-by-layer self-assembly replication technique: application to photoelectrode of dye-sensitized solar cell. <i>Thin Solid Films</i> , 2003, 438-439, 346-351.	1.8	41
308	Formation process of sheets and helical forms consisting of strontium carbonate fibrous crystals with silicate. <i>Journal of Crystal Growth</i> , 2003, 253, 435-444.	1.5	79
309	Synthesis of rutile and anatase films with high surface areas in aqueous solutions containing urea. <i>Thin Solid Films</i> , 2003, 434, 86-93.	1.8	56
310	Synthesis of mesoporous silica foams with hierarchical trimodal pore structures. <i>Journal of Materials Chemistry</i> , 2003, 13, 1812.	6.7	58
311	Experimental Demonstration for the Morphological Evolution of Crystals Grown in Gel Media. <i>Crystal Growth and Design</i> , 2003, 3, 711-716.	3.0	202
312	Self-organized formation of a hierarchical self-similar structure with calcium carbonate. <i>Chemical Communications</i> , 2003, , 484-485.	4.1	55
313	Formation of calcium phosphate having a hierarchically laminated architecture through periodic precipitation in organic gel. <i>Chemical Communications</i> , 2003, , 1952.	4.1	39
314	Formation of Silicate-mediated CaCO ₃ Films. <i>Chemistry Letters</i> , 2003, 32, 820-821.	1.3	11
315	Photocrystallization of amorphous ZnO. <i>Journal of Applied Physics</i> , 2002, 92, 5707-5710.	2.5	23
316	Photoreduction of Amorphous and Crystalline ZnO Films. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 3909-3915.	1.5	18
317	Biomimetic Approach for Exact Control of TiO ₂ Periodic Microstructures. <i>Chemistry Letters</i> , 2002, 31, 714-715.	1.3	11
318	Crystal Phase Control for Titanium Dioxide Films by Direct Deposition in Aqueous Solutions. <i>Chemistry of Materials</i> , 2002, 14, 609-614.	6.7	181
319	Growth conditions for wurtzite zinc oxide films in aqueous solutions. <i>Journal of Materials Chemistry</i> , 2002, 12, 3773-3778.	6.7	509
320	Self-organized formation of porous aragonite with silicate. <i>Journal of Crystal Growth</i> , 2002, 244, 200-205.	1.5	46
321	Morphology transcription with TiO ₂ using chemical solution growth and its application for photocatalysts. <i>Solid State Ionics</i> , 2002, 151, 183-187.	2.7	16
322	Morphological evolution of silver crystals produced by reduction with ascorbic acid. <i>Journal of Crystal Growth</i> , 2002, 241, 193-199.	1.5	48
323	Preparation of Porous Titania Film by Modified Sol-Gel Method and its Application to Photocatalyst. <i>Journal of Sol-Gel Science and Technology</i> , 2002, 25, 65-74.	2.4	58
324	Preparation of mesoporous TiO ₂ thin films by surfactant templating. <i>Journal of Non-Crystalline Solids</i> , 2001, 285, 90-95.	3.1	68

#	ARTICLE	IF	CITATIONS
325	Preparation of meso-porous TiO ₂ gels and their characterization. Journal of Non-Crystalline Solids, 2001, 285, 96-100.	3.1	32
326	Catalyst activity of alumina-galicia aerogels for selective reduction of NO _x . Journal of Non-Crystalline Solids, 2001, 285, 333-337.	3.1	6
327	Formation of Whiskers of Silicate Mesostructures. Langmuir, 2001, 17, 17-20.	3.5	12
328	Fabrication of Rutile TiO ₂ Foils with High Specific Surface Area via Heterogeneous Nucleation in Aqueous Solutions. Chemistry Letters, 2001, 30, 220-221.	1.3	18
329	Hydrolysis Deposition of Thin Films of Antimony-Doped Tin Oxide. Journal of the American Ceramic Society, 2001, 84, 869-871.	3.8	9
330	Preparation of Hollow Fibers of Tin Oxide with and without Antimony Doping. Chemistry Letters, 2000, 29, 906-907.	1.3	8
331	Characterization of Alumina Gel Catalysts by Emanation Thermal Analysis (ETA). Journal of Sol-Gel Science and Technology, 2000, 19, 399-402.	2.4	3
332	Preparation of SrBi ₂ Ta ₂ O ₉ from Metal Alkoxides. Journal of Sol-Gel Science and Technology, 2000, 19, 599-601.	2.4	1
333	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
334	Evolution of Cristobalite Clusters on Silica Glass Surfaces in Molten Silicon. Journal of the Electrochemical Society, 2000, 147, 1182.	2.9	8
335	Preparation of TiO ₂ fibers with well-organized structures. Journal of Materials Chemistry, 2000, 10, 2005-2006.	6.7	93
336	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
337	Alternative modification methods for sol-gel coatings of silica, titania and silica-titania using ultraviolet irradiation and water vapor. Thin Solid Films, 1999, 351, 91-94.	1.8	54
338	Preparation of Porous Anatase Coating from Sol-Gel-Derived Titanium Dioxide and Titanium Dioxide-Silica by Water Vapor Exposure. Journal of the American Ceramic Society, 1999, 82, 2301-2304.	3.8	68
339	Optical quadratic nonlinearity in corona-poled glass film waveguides. Electronics and Communications in Japan, 1999, 82, 53-61.	0.2	0
340	Direct preparation of anatase TiO ₂ nanotubes in porous alumina membranes. Journal of Materials Chemistry, 1999, 9, 2971-2972.	6.7	343
341	Ultraviolet-reduced reduction and crystallization of indium oxide films. Journal of Applied Physics, 1999, 85, 203-207.	2.5	70
342	Direct deposition methods of silica and silica/organic composite coatings in alkoxide solutions. , 1999, 126-131.		0

#	ARTICLE	IF	CITATIONS
343	Low-temperature synthesis of anatase thin films on glass and organic substrates by direct deposition from aqueous solutions. , 1999, , 323-327.		0
344	Alternative modification methods for sol-gel coatings of silica, titania and silica-titania using ultraviolet irradiation and water vapor. , 1999, , 160-163.		0
345	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
346	Defects in amorphous silica induced with monochromatic VUV rays. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 589-593.	1.4	4
347	Oxide aerogel catalysts. Journal of Non-Crystalline Solids, 1998, 225, 153-156.	3.1	38
348	Liquid phase deposition of a film of silica with an organic functional group. Journal of Non-Crystalline Solids, 1998, 231, 161-168.	3.1	14
349	Direct deposition of silica films using silicon alkoxide solution. Journal of Non-Crystalline Solids, 1998, 241, 91-97.	3.1	8
350	Direct Deposition of Mesoscopically Assembled Dye-Doped Silica Films from Aqueous Solutions of Silicon Alkoxides. Chemistry of Materials, 1998, 10, 1582-1588.	6.7	16
351	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
352	Deposition Process and Property of Silica Films Containing Organic Groups from Aqueous Solution of Alkoxides. Journal of Materials Research, 1997, 12, 1008-1016.	2.6	6
353	Effect of Al/Si Ratio on Crystallization of Cordierite Ceramics Prepared by the Sol-Gel Method. Journal of the Ceramic Society of Japan, 1997, 105, 43-47.	1.3	16
354	Liquid phase deposition film of tin oxide. Journal of Non-Crystalline Solids, 1997, 210, 48-54.	3.1	87
355	Densification of Sol-Gel Thin Films by Ultraviolet and Vacuum Ultraviolet Irradiations. Journal of Sol-Gel Science and Technology, 1997, 8, 365-369.	2.4	3
356	Structural Changes in Sol-Gel Derived SiO ₂ and TiO ₂ Films by Exposure to Water Vapor. Journal of Sol-Gel Science and Technology, 1997, 10, 45-54.	2.4	96
357	Densification of sol-gel thin films by ultraviolet and vacuum ultraviolet irradiations. Journal of Sol-Gel Science and Technology, 1997, 8, 365-369.	2.4	18
358	Application of alumina aerogels as catalysts. Journal of Sol-Gel Science and Technology, 1997, 8, 843-846.	2.4	31
359	Time-dependent decay of quadratic non-linearity in corona-poled silicate glass films. Journal of Non-Crystalline Solids, 1996, 196, 63-66.	3.1	8
360	Direct Deposition of Silica Films Containing Organic Groups and Dyes from Silicon Alkoxide Solutions. Materials Research Society Symposia Proceedings, 1996, 435, 409.	0.1	2

#	ARTICLE	IF	CITATIONS
361	Significant densification of sol-gel derived amorphous silica films by vacuum ultraviolet irradiation. Journal of Applied Physics, 1996, 79, 8304-8309.	2.5	47
362	Dissociative Mechanisms of Monosilane and Arsine on Copper(II) Oxide. Journal of the Electrochemical Society, 1996, 143, 2654-2657.	2.9	7
363	Crystallization and Sintering Behavior of PZT Prepared from Metal Alkoxides. Journal of the Ceramic Society of Japan, 1995, 103, 1069-1072.	1.3	8
364	Monosilane Adsorption on Porous Alumina. Journal of the Electrochemical Society, 1995, 142, 3202-3204.	2.9	3
365	Intrinsic- and extrinsic-defect formation in silica glasses by radiation. Journal of Non-Crystalline Solids, 1994, 179, 202-213.	3.1	96
366	Modification of Sol-Gel Thin Films By Ion Implantation. Materials Research Society Symposia Proceedings, 1994, 346, 183.	0.1	7
367	Novel Modification Method of Sol-Gel Thin Films. Journal of the Ceramic Society of Japan, 1994, 102, 1094-1096.	1.3	13
368	Structural change in sol-gel-derived SiO ₂ films using ultraviolet irradiation. , 1994, , .		6
369	Evidence for pair generation of an E' center and a nonbridging oxygen-hole center in γ -ray-irradiated fluorine-doped low-OH synthetic silica glasses. Physical Review B, 1992, 45, 10818-10821.	3.2	42
370	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
371	Layered macrocycles with flexibility and tunable dynamic properties for wide-range thermoresponsive color changes. Sensors & Diagnostics, 0, , .	3.8	5
372	Demonstrated gradual evolution of disorder in crystalline structures between single crystal and polycrystal <i>via</i> chemical and physicochemical approaches. CrystEngComm, 0, , .	2.6	0
373	Preparation of conductive Cu _{1.5} Mn _{1.5} O ₄ and Mn ₃ O ₄ spinel mixture powders as positive active materials in rechargeable Mg batteries operative at room temperature. Journal of Sol-Gel Science and Technology, 0, , .	2.4	0