

Shunai Che

List of Publications by Year in descending order

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108
papers

4,943
citations

117453

34
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95083

68
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113
all docs

113
docs citations

113
times ranked

4589
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of chiral mesoporous silica. <i>Nature</i> , 2004, 429, 281-284.	13.7	747
2	A novel anionic surfactant templating route for synthesizing mesoporous silica with unique structure. <i>Nature Materials</i> , 2003, 2, 801-805.	13.3	540
3	An Overview of Materials with Triply Periodic Minimal Surfaces and Related Geometry: From Biological Structures to Self-Assembled Systems. <i>Advanced Materials</i> , 2018, 30, e1705708.	11.1	276
4	π-π interaction of aromatic groups in amphiphilic molecules directing for single-crystalline mesostructured zeolite nanosheets. <i>Nature Communications</i> , 2014, 5, 4262.	5.8	223
5	Chiral mesoporous silica: Chiral construction and imprinting via cooperative self-assembly of amphiphiles and silica precursors. <i>Chemical Society Reviews</i> , 2011, 40, 1259-1268.	18.7	154
6	Synthesis of chiral TiO ₂ nanofibre with electron transition-based optical activity. <i>Nature Communications</i> , 2012, 3, 1215.	5.8	149
7	Synthesis and Characterization of Mesoporous Silica AMS-10 with Bicontinuous CubicPnm Symmetry. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4295-4298.	7.2	130
8	Optically Active Chiral CuO Nanoflowers. <i>Journal of the American Chemical Society</i> , 2014, 136, 7193-7196.	6.6	126
9	Formation Mechanism of Anionic Surfactant-Templated Mesoporous Silica. <i>Chemistry of Materials</i> , 2006, 18, 3904-3914.	3.2	123
10	The Effect of the Counteranion on the Formation of Mesoporous Materials under the Acidic Synthesis Process. <i>Journal of the American Chemical Society</i> , 2002, 124, 13962-13963.	6.6	119
11	Synthesis of Large-Pore Mesoporous Silica and Its Tubelike Carbon Replica. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3930-3934.	7.2	116
12	Self-Assembly of Cetyltrimethylammonium Bromide and Lamellar Zeolite Precursor for the Preparation of Hierarchical MWW Zeolite. <i>Chemistry of Materials</i> , 2016, 28, 4512-4521.	3.2	88
13	The Formation of CubicPm3̄ _n Mesostructure by an Epitaxial Phase Transformation from Hexagonalp6mm Mesophase. <i>Journal of the American Chemical Society</i> , 2001, 123, 12089-12090.	6.6	86
14	Optically Active Nanostructured ZnO Films. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15170-15175.	7.2	82
15	Enantiomeric Discrimination by Surface-Enhanced Raman Scattering: Chiral Anisotropy of Chiral Nanostructured Gold Films. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15226-15231.	7.2	70
16	Chirality of Metal Nanoparticles in Chiral Mesoporous Silica. <i>Advanced Functional Materials</i> , 2012, 22, 3784-3792.	7.8	69
17	A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 724-728.	7.2	67
18	Synthesis of carboxylic group functionalized mesoporous silicas (CFMSs) with various structures. <i>Journal of Materials Chemistry</i> , 2007, 17, 1216.	6.7	66

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19	Synthesis of Single-Crystalline Mesoporous ZSM-5 with Three-Dimensional Pores via the Self-Assembly of a Designed Triply Branched Cationic Surfactant. <i>Chemistry of Materials</i> , 2014, 26, 7183-7188.	3.2	66
20	An insight into the role of the surfactant CTAB in the formation of microporous molecular sieves. <i>Dalton Transactions</i> , 2014, 43, 3612-3617.	1.6	64
21	Organically Functionalized Mesoporous Silica by Co-structure-Directing Route. <i>Advanced Functional Materials</i> , 2010, 20, 2750-2768.	7.8	58
22	A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. <i>Angewandte Chemie</i> , 2018, 130, 732-736.	1.6	57
23	Spontaneous Formation and Characterization of Silica Mesoporous Crystal Spheres with Reverse Multiply Twinned Polyhedral Hollows. <i>Journal of the American Chemical Society</i> , 2011, 133, 6106-6109.	6.6	56
24	Surfactants with Aromatic-Group Tail and Single Quaternary Ammonium Head for Directing Single-Crystalline Mesostructured Zeolite Nanosheets. <i>Chemistry of Materials</i> , 2014, 26, 4612-4619.	3.2	54
25	pH-responsive mitoxantrone (MX) delivery using mesoporous silica nanoparticles (MSN). <i>Journal of Materials Chemistry</i> , 2011, 21, 9483.	6.7	53
26	Monodispersed inorganic/organic hybrid spherical colloids: Versatile synthesis and their gas-triggered reversibly switchable wettability. <i>Journal of Materials Chemistry</i> , 2010, 20, 10001.	6.7	50
27	pH-Responsive Drug Delivery System Based on Coordination Bonding in a Mesostructured Surfactant/Silica Hybrid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7230-7237.	1.5	50
28	Evolution of Packing Parameters in the Structural Changes of Silica Mesoporous Crystals: Cage-Type, 2D Cylindrical, Bicontinuous Diamond and Gyroid, and Lamellar. <i>Journal of the American Chemical Society</i> , 2011, 133, 11524-11533.	6.6	48
29	Interconversion of Triply Periodic Constant Mean Curvature Surface Structures: From Double Diamond to Single Gyroid. <i>Chemistry of Materials</i> , 2016, 28, 3691-3702.	3.2	46
30	Synthesis and Characterization of Macroporous Photonic Structure that Consists of Azimuthally Shifted Double-Diamond Silica Frameworks. <i>Chemistry of Materials</i> , 2014, 26, 7020-7028.	3.2	44
31	Synthesis of Lamellar Mesostructured ZSM-48 Nanosheets. <i>Chemistry of Materials</i> , 2018, 30, 1839-1843.	3.2	42
32	Carboxylic group functionalized ordered mesoporous silicas. <i>Journal of Materials Chemistry</i> , 2011, 21, 11033.	6.7	40
33	Molecular design of the surfactant and the co-structure-directing agent (CSDA) toward rational synthesis of targeted anionic surfactant templated mesoporous silica. <i>Journal of Materials Chemistry</i> , 2007, 17, 3591.	6.7	38
34	Intergrown Zeolite MWW Polymorphs Prepared by the Rapid Dissolution-Recrystallization Route. <i>Chemistry of Materials</i> , 2015, 27, 7852-7860.	3.2	36
35	Chiral Mesostructured NiO Films with Spin Polarisation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9421-9426.	7.2	35
36	A Lesson from the Unusual Morphology of Silica Mesoporous Crystals: Growth and Close Packing of Spherical Micelles with Multiple Twinning. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6516-6519.	7.2	31

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37	Silver Films with Hierarchical Chirality. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8657-8662.	7.2	30
38	Amino/quaternary ammonium groups bifunctionalized large pore mesoporous silica for pH-responsive large drug delivery. <i>RSC Advances</i> , 2012, 2, 4421.	1.7	29
39	Structural Analyses of Intergrowth and Stacking Fault in Cage-Type Mesoporous Crystals. <i>Chemistry of Materials</i> , 2009, 21, 223-229.	3.2	26
40	Oriented Chiral DNA-Silica Film Guided by a Natural Mica Substrate. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2037-2041.	7.2	26
41	A Shifted Double-Diamond Titania Scaffold. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 806-811.	7.2	23
42	Formation of Diverse Ordered Structures in ABC Triblock Terpolymer Templated Macroporous Silicas. <i>Macromolecules</i> , 2018, 51, 4381-4396.	2.2	22
43	Enantiomeric Discrimination by Surface-Enhanced Raman Scattering-Chiral Anisotropy of Chiral Nanostructured Gold Films. <i>Angewandte Chemie</i> , 2020, 132, 15338-15343.	1.6	22
44	Chiral Nanostructured CuO Films with Multiple Optical Activities. <i>Advanced Optical Materials</i> , 2017, 5, 1601013.	3.6	21
45	Silica Scaffold with Shifted "Plumber's Nightmare" Networks and their Interconversion into Diamond Networks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10670-10675.	7.2	21
46	π-π Interactions Between Aromatic Groups in Amphiphilic Molecules: Directing Hierarchical Growth of Porous Zeolites. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 50-60.	7.2	20
47	Optically active chiral Ag nanowires. <i>Science China Materials</i> , 2015, 58, 441-446.	3.5	19
48	Rigid bolaform surfactant templated mesoporous silicon nanofibers as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19855-19860.	5.2	18
49	Growth of Optically Active Chiral Inorganic Films through DNA Self-Assembly and Silica Mineralisation. <i>Scientific Reports</i> , 2014, 4, 4866.	1.6	18
50	Mesoporous MFI Zeolite with a 2D Square Structure Directed by Surfactants with an Azobenzene Tail Group. <i>Chemistry - A European Journal</i> , 2018, 24, 8615-8623.	1.7	18
51	Chiral Mesoporous BiOBr Films with Circularly Polarized Colour Response. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19024-19029.	7.2	18
52	Chiral Mesoporous Materials Based on the Self-Assembly. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1557-1564.	0.9	17
53	Single-Crystalline MFI Zeolite with Sheet-Like Mesopores Layered along the <i>c</i> Axis. <i>Chemistry - A European Journal</i> , 2019, 25, 738-742.	1.7	17
54	A design concept of amphiphilic molecules for directing hierarchical porous zeolite. <i>New Journal of Chemistry</i> , 2016, 40, 3982-3992.	1.4	16

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55	Spontaneous chiral self-assembly of CdSe@CdS nanorods. <i>CheM</i> , 2021, 7, 2695-2707.	5.8	16
56	Resistance to Chiral Anisotropy of Chiral Mesostructured Half-metallic Fe ₃ O ₄ Films. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20036-20041.	7.2	16
57	Photomagnetic-chiral anisotropy of chiral nanostructured gold films. <i>CheM</i> , 2022, 8, 186-196.	5.8	16
58	Chiral hierarchical structure of bone minerals. <i>Nano Research</i> , 2022, 15, 1295-1302.	5.8	15
59	Structures of Silica-Based Nanoporous Materials Revealed by Microscopy. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 521-536.	0.6	14
60	Enhanced release of the poorly soluble drug itraconazole loaded in ordered mesoporous silica. <i>Science China Chemistry</i> , 2015, 58, 400-410.	4.2	14
61	One-Pot Synthesis and Formation Mechanism of Hollow ZSM-5. <i>Chemistry - A European Journal</i> , 2019, 25, 6196-6202.	1.7	14
62	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 2232-2235.	1.6	13
63	Hard-templating of chiral TiO ₂ nanofibres with electron transition-based optical activity. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 054206.	2.8	13
64	Spin Selectivity of Chiral Mesostructured Iron Oxides with Different Magnetisms. <i>Small</i> , 2022, 18, e2104509.	5.2	13
65	Enantioselective Interaction between Cells and Chiral Hydroxyapatite Films. <i>Chemistry of Materials</i> , 2022, 34, 53-62.	3.2	12
66	Silica cubosomes templated by a star polymer. <i>RSC Advances</i> , 2019, 9, 6118-6124.	1.7	11
67	Library Creation of Ultrasmall Multi-metallic Nanoparticles Confined in Mesoporous MFI Zeolites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14571-14577.	7.2	11
68	Self-Assembly of Chiral Nematic-Like Films with Chiral Nanorods Directed by Chiral Molecules. <i>Chemistry of Materials</i> , 2021, 33, 6227-6232.	3.2	11
69	Bolaform Molecules Directing Intergrown Zeolites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9117-9126.	1.5	10
70	Synthesis of ultra-small mordenite zeolite nanoparticles. <i>Science China Materials</i> , 2018, 61, 1185-1190.	3.5	10
71	Spontaneous chiral self-assembly of achiral AIEgens into AIEgen-silica hybrid nanotubes. <i>Chemical Communications</i> , 2019, 55, 14438-14441.	2.2	10
72	Crystal twinning of bicontinuous cubic structures. <i>IUCr</i> , 2020, 7, 228-237.	1.0	10

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73	Chiral mesostructured SnO ₂ films with tunable optical activities. <i>Optical Materials</i> , 2019, 94, 21-27.	1.7	9
74	Self-Assembly of Single-Diamond Surface Networks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15236-15242.	7.2	9
75	Controllable synthesis of silica hollow spheres by vesicle templating of silicone surfactants. <i>Journal of Materials Science</i> , 2013, 48, 1890-1898.	1.7	8
76	Synthesis of hierarchical MFI zeolites with a micro-macroporous core-mesoporous shell structure. <i>Chemical Communications</i> , 2019, 55, 810-813.	2.2	8
77	Fabrication of Chiral Materials via Self-Assembly and Biomineralization of Peptides. <i>Chemical Record</i> , 2015, 15, 665-674.	2.9	7
78	Oriented Chiral DNA-Silica Film Guided by a Natural Mica Substrate. <i>Angewandte Chemie</i> , 2016, 128, 2077-2081.	1.6	7
79	Synthesis of chiral mesostructured titanium dioxide films. <i>Chemical Communications</i> , 2020, 56, 4848-4851.	2.2	7
80	Functional group-template integrated ABC copolymer silicone surfactant directing for highly hydrophobic mesoporous silica. <i>Journal of Materials Chemistry</i> , 2012, 22, 19076.	6.7	6
81	Additive-free synthesis of mesoporous FAU-type zeolite with intergrown structure. <i>Science China Materials</i> , 2018, 61, 1095-1100.	3.5	6
82	Hierarchical MFI Zeolites with a Single-Crystalline Sponge-Like Mesostructure. <i>Chemistry - A European Journal</i> , 2018, 24, 19300-19308.	1.7	6
83	Structure Characterization of Mesoporous Materials by Electron Microscopy. <i>The Enzymes</i> , 2018, 43, 11-30.	0.7	6
84	Highly ordered AIEgen directed silica hybrid mesostructures and their light-emitting behaviours. <i>Journal of Materials Chemistry C</i> , 2019, 7, 346-353.	2.7	6
85	Mesoporous Silica Microspheres Compositing with SBA-15s for Resonance Frequency Reduction in a Miniature Loudspeaker. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 760-767.	1.3	6
86	Chiral Nanostructured Bimetallic Au-Ag Films for Enantiomeric Discrimination. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	6
87	Molecular design of AEC tri-block anionic surfactant towards rational synthesis of targeted thick-walled mesoporous silica. <i>Journal of Materials Chemistry</i> , 2009, 19, 3404.	6.7	5
88	Fabrication of Photonic Bandgap Materials by Shifting Double Frameworks. <i>Chemistry - A European Journal</i> , 2018, 24, 17389-17396.	1.7	5
89	Molecular design of the amphiphilic AB diblock copolymer toward one-step synthesis of amino-group functionalized large pore mesoporous silica. <i>RSC Advances</i> , 2014, 4, 43047-43051.	1.7	4
90	Hierarchical multi-lamellar silica vesicle clusters synthesized through self-assembly and mineralization. <i>RSC Advances</i> , 2015, 5, 102256-102260.	1.7	4

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91	Formation of Lamellar Mesostructured Crystalline Silica by Self-assembly of CTAB. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 359-362.	1.3	4
92	π-π Interactions Between Aromatic Groups in Amphiphilic Molecules: Directing Hierarchical Growth of Porous Zeolites. <i>Angewandte Chemie</i> , 2020, 132, 50-60.	1.6	4
93	Library Creation of Ultrasmall Multi-metallic Nanoparticles Confined in Mesoporous MFI Zeolites. <i>Angewandte Chemie</i> , 2021, 133, 14692-14698.	1.6	4
94	Mechanism of diastereoisomer-induced chirality of BiOBr. <i>Chemical Science</i> , 2022, 13, 2450-2455.	3.7	4
95	Chiral Nanoparticles: Chirality of Metal Nanoparticles in Chiral Mesoporous Silica (<i>Adv. Funct. Mater.</i>)	7.8	3
96	Silver Films with Hierarchical Chirality. <i>Angewandte Chemie</i> , 2017, 129, 8783-8788.	1.6	3
97	Chiral Mesostructured BiOBr Films with Circularly Polarized Colour Response. <i>Angewandte Chemie</i> , 2021, 133, 19172-19177.	1.6	3
98	DNA-Assisted Creation of a Library of Ultrasmall Multimetal/Metal Oxide Nanoparticles Confined in Silica. <i>Small</i> , 2022, 18, e2107123.	5.2	3
99	Chiral Mesostructured Carbonate with Vibrational Circular Dichroism. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	3
100	Poly[platinum(IV)-alt-PEI]/Akt1 shRNA complexes for enhanced anticancer therapy. <i>RSC Advances</i> , 2016, 6, 65854-65865.	1.7	2
101	DNA Condensed Phase and DNA-Inorganic Hybrid Mesostructured Materials. <i>ACS Symposium Series</i> , 2017, , 49-79.	0.5	1
102	Chiral Mesostructured NiO Films with Spin Polarisation. <i>Angewandte Chemie</i> , 2021, 133, 9507-9512.	1.6	1
103	Chiral mesostructured hydroxide zinc carbonate for enantioseparation in high performance liquid chromatography. <i>Chemical Communications</i> , 2022, 58, 4040-4043.	2.2	1
104	Mechanical behaviors regulation of triply periodic minimal surface structures with crystal twinning. <i>Additive Manufacturing</i> , 2022, 58, 103036.	1.7	1
105	Frontispiz: Silica Scaffold with Shifted "Plumber's Nightmare" Networks and their Interconversion into Diamond Networks. <i>Angewandte Chemie</i> , 2017, 129, .	1.6	0
106	Frontispiece: Silica Scaffold with Shifted "Plumber's Nightmare" Networks and their Interconversion into Diamond Networks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10610-10610.	7.2	0
107	Chiral Mesoporous Silica Materials. , 0, , 121-177.		0
108	Resistance to Chiral Anisotropy of Chiral Mesostructured Half-metallic Fe ₃ O ₄ Films. <i>Angewandte Chemie</i> , 2021, 133, 20189-20194.	1.6	0