# Shunai Che

## List of Publications by Citations



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|---|---|---|---|
| 110 papers | 3,973 citations | 30 h-index | 61 g-index |
| 113 ext. papers | 4,411 ext. citations | 9.7 avg, IF | 5.5 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 110 | Synthesis and characterization of chiral mesoporous silica. *Nature*, **2004**, 429, 281-4 | 50.4 | 682 |
| 109 | A novel anionic surfactant templating route for synthesizing mesoporous silica with unique structure. *Nature Materials*, **2003**, 2, 801-5 | 27 | 505 |
| 108 | Interaction of aromatic groups in amphiphilic molecules directing for single-crystalline mesostructured zeolite nanosheets. *Nature Communications*, **2014**, 5, 4262 | 17.4 | 168 |
| 107 | Chiral mesoporous silica: chiral construction and imprinting via cooperative self-assembly of amphiphiles and silica precursors. *Chemical Society Reviews*, **2011**, 40, 1259-68 | 58.5 | 141 |
| 106 | An Overview of Materials with Triply Periodic Minimal Surfaces and Related Geometry: From Biological Structures to Self-Assembled Systems. *Advanced Materials*, **2018**, 30, e1705708 | 24 | 121 |
| 105 | Synthesis of chiral TiO nanofibre with electron transition-based optical activity. *Nature Communications*, **2012**, 3, 1215 | 17.4 | 120 |
| 104 | Synthesis and characterization of mesoporous silica AMS-10 with bicontinuous cubic Pn3m symmetry. *Angewandte Chemie - International Edition*, **2006**, 45, 4295-8 | 16.4 | 117 |
| 103 | Formation Mechanism of Anionic Surfactant-Templated Mesoporous Silica. *Chemistry of Materials*, **2006**, 18, 3904-3914 | 9.6 | 116 |
| 102 | The effect of the counteranion on the formation of mesoporous materials under the acidic synthesis process. *Journal of the American Chemical Society*, **2002**, 124, 13962-3 | 16.4 | 114 |
| 101 | Synthesis of large-pore Ia3d mesoporous silica and its tubelike carbon replica. *Angewandte Chemie - International Edition*, **2003**, 42, 3930-4 | 16.4 | 106 |
| 100 | Optically active chiral CuO "nanoflowers". *Journal of the American Chemical Society*, **2014**, 136, 7193-6 | 16.4 | 90 |
| 99 | The formation of cubic Pm macro 3n mesostructure by an epitaxial phase transformation from hexagonal p6mm mesophase. *Journal of the American Chemical Society*, **2001**, 123, 12089-90 | 16.4 | 81 |
| 98 | Chirality of Metal Nanoparticles in Chiral Mesoporous Silica. *Advanced Functional Materials*, **2012**, 22, 3784-3792 | 15.6 | 66 |
| 97 | Self-Assembly of Cetyltrimethylammonium Bromide and Lamellar Zeolite Precursor for the Preparation of Hierarchical MWW Zeolite. *Chemistry of Materials*, **2016**, 28, 4512-4521 | 9.6 | 65 |
| 96 | Optically Active Nanostructured ZnO Films. *Angewandte Chemie - International Edition*, **2015**, 54, 15170-5 | 16.4 | 62 |
| 95 | Synthesis of carboxylic group functionalized mesoporous silicas (CFMSs) with various structures. *Journal of Materials Chemistry*, **2007**, 17, 1216 | | 61 |
| 94 | Synthesis of Single-Crystalline Mesoporous ZSM-5 with Three-Dimensional Pores via the Self-Assembly of a Designed Triply Branched Cationic Surfactant. *Chemistry of Materials*, **2014**, 26, 7183-7188 | 9.6 | 57 |

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| 93 | Organically Functionalized Mesoporous Silica by Co-structure-Directing Route. *Advanced Functional Materials*, **2010**, 20, 2750-2768 | 15.6 | 57 |
| 92 | pH-responsive mitoxantrone (MX) delivery using mesoporous silica nanoparticles (MSN). *Journal of Materials Chemistry*, **2011**, 21, 9483 | | 50 |
| 91 | An insight into the role of the surfactant CTAB in the formation of microporous molecular sieves. *Dalton Transactions*, **2014**, 43, 3612-7 | 4.3 | 49 |
| 90 | Spontaneous formation and characterization of silica mesoporous crystal spheres with reverse multiply twinned polyhedral hollows. *Journal of the American Chemical Society*, **2011**, 133, 6106-9 | 16.4 | 48 |
| 89 | Evolution of packing parameters in the structural changes of silica mesoporous crystals: cage-type, 2D cylindrical, bicontinuous diamond and gyroid, and lamellar. *Journal of the American Chemical Society*, **2011**, 133, 11524-33 | 16.4 | 47 |
| 88 | Surfactants with Aromatic-Group Tail and Single Quaternary Ammonium Head for Directing Single-Crystalline Mesostructured Zeolite Nanosheets. *Chemistry of Materials*, **2014**, 26, 4612-4619 | 9.6 | 46 |
| 87 | pH-Responsive Drug Delivery System Based on Coordination Bonding in a Mesostructured Surfactant/Silica Hybrid. *Journal of Physical Chemistry C*, **2011**, 115, 7230-7237 | 3.8 | 46 |
| 86 | Monodispersed inorganic/organic hybrid spherical colloids: Versatile synthesis and their gas-triggered reversibly switchable wettability. *Journal of Materials Chemistry*, **2010**, 20, 10001 | | 45 |
| 85 | A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. *Angewandte Chemie - International Edition*, **2018**, 57, 724-728 | 16.4 | 43 |
| 84 | Molecular design of the surfactant and the co-structure-directing agent (CSDA) toward rational synthesis of targeted anionic surfactant templated mesoporous silica. *Journal of Materials Chemistry*, **2007**, 17, 3591 | | 38 |
| 83 | Carboxylic group functionalized ordered mesoporous silicas. *Journal of Materials Chemistry*, **2011**, 21, 11033 | | 36 |
| 82 | Interconversion of Triply Periodic Constant Mean Curvature Surface Structures: From Double Diamond to Single Gyroid. *Chemistry of Materials*, **2016**, 28, 3691-3702 | 9.6 | 35 |
| 81 | Synthesis and Characterization of Macroporous Photonic Structure that Consists of Azimuthally Shifted Double-Diamond Silica Frameworks. *Chemistry of Materials*, **2014**, 26, 7020-7028 | 9.6 | 34 |
| 80 | Intergrown Zeolite MWW Polymorphs Prepared by the Rapid Dissolution–Recrystallization Route. *Chemistry of Materials*, **2015**, 27, 7852-7860 | 9.6 | 30 |
| 79 | Amino/quaternary ammonium groups bifunctionalized large pore mesoporous silica for pH-responsive large drug delivery. *RSC Advances*, **2012**, 2, 4421 | 3.7 | 29 |
| 78 | A lesson from the unusual morphology of silica mesoporous crystals: growth and close packing of spherical micelles with multiple twinning. *Angewandte Chemie - International Edition*, **2006**, 45, 6516-9 | 16.4 | 29 |
| 77 | Enantiomeric Discrimination by Surface-Enhanced Raman Scattering-Chiral Anisotropy of Chiral Nanostructured Gold Films. *Angewandte Chemie - International Edition*, **2020**, 59, 15226-15231 | 16.4 | 28 |
| 76 | Synthesis of Lamellar Mesostructured ZSM-48 Nanosheets. *Chemistry of Materials*, **2018**, 30, 1839-1843 | 9.6 | 26 |

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| 75 | Silver Films with Hierarchical Chirality. *Angewandte Chemie - International Edition*, **2017**, 56, 8657-8662 | 16.4 | 25 |
| 74 | Structural Analyses of Intergrowth and Stacking Fault in Cage-Type Mesoporous Crystals. *Chemistry of Materials*, **2009**, 21, 223-229 | 9.6 | 24 |
| 73 | A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. *Angewandte Chemie*, **2018**, 130, 732-736 | 3.6 | 24 |
| 72 | Oriented Chiral DNA-Silica Film Guided by a Natural Mica Substrate. *Angewandte Chemie - International Edition*, **2016**, 55, 2037-41 | 16.4 | 21 |
| 71 | Synthesis of Large-Pore Ia$bar3$d Mesoporous Silica and Its Tubelike Carbon Replica. *Angewandte Chemie*, **2003**, 115, 4060-4064 | 3.6 | 21 |
| 70 | A Shifted Double-Diamond Titania Scaffold. *Angewandte Chemie - International Edition*, **2017**, 56, 806-811 | 16.4 | 20 |
| 69 | Silica Scaffold with Shifted "Plumber's Nightmare" Networks and their Interconversion into Diamond Networks. *Angewandte Chemie - International Edition*, **2017**, 56, 10670-10675 | 16.4 | 18 |
| 68 | Optically Active Nanostructured ZnO Films. *Angewandte Chemie*, **2015**, 127, 15385-15390 | 3.6 | 18 |
| 67 | Formation of Diverse Ordered Structures in ABC Triblock Terpolymer Templated Macroporous Silicas. *Macromolecules*, **2018**, 51, 4381-4396 | 5.5 | 18 |
| 66 | Rigid bolaform surfactant templated mesoporous silicon nanofibers as anode materials for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 19855-19860 | 13 | 17 |
| 65 | Growth of optically active chiral inorganic films through DNA self-assembly and silica mineralisation. *Scientific Reports*, **2014**, 4, 4866 | 4.9 | 16 |
| 64 | Chiral mesoporous materials based on the self-assembly. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1557-64 | 1.3 | 16 |
| 63 | Chiral Nanostructured CuO Films with Multiple Optical Activities. *Advanced Optical Materials*, **2017**, 5, 1601013 | 8.1 | 15 |
| 62 | Optically active chiral Ag nanowires. *Science China Materials*, **2015**, 58, 441-446 | 7.1 | 15 |
| 61 | A design concept of amphiphilic molecules for directing hierarchical porous zeolite. *New Journal of Chemistry*, **2016**, 40, 3982-3992 | 3.6 | 14 |
| 60 | Direct Observation of 3D Mesoporous Structure by Scanning Electron Microscopy (SEM): SBA-15 Silica and CMK-5 Carbon. *Angewandte Chemie*, **2003**, 115, 2232-2235 | 3.6 | 13 |
| 59 | Enhanced release of the poorly soluble drug itraconazole loaded in ordered mesoporous silica. *Science China Chemistry*, **2015**, 58, 400-410 | 7.9 | 12 |
| 58 | Mesoporous MFI Zeolite with a 2D Square Structure Directed by Surfactants with an Azobenzene Tail Group. *Chemistry - A European Journal*, **2018**, 24, 8615-8623 | 4.8 | 12 |

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| 57 | Structures of Silica-Based Nanoporous Materials Revealed by Microscopy. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 521-536 | 1.3 | 12 |
| 56 | Synthesis of Enantiopure Carbonaceous Nanotubes with Optical Activity. *Angewandte Chemie*, **2013**, 125, 6996-7000 | 3.6 | 12 |
| 55 | Synthesis of a DNA□Silica Complex with Rare Two-Dimensional Square p4mm Symmetry. *Angewandte Chemie*, **2009**, 121, 9432-9436 | 3.6 | 12 |
| 54 | Single-Crystalline MFI Zeolite with Sheet-Like Mesopores Layered along the a Axis. *Chemistry - A European Journal*, **2019**, 25, 738-742 | 4.8 | 12 |
| 53 | Enantiomeric Discrimination by Surface-Enhanced Raman Scattering□Chiral Anisotropy of Chiral Nanostructured Gold Films. *Angewandte Chemie*, **2020**, 132, 15338-15343 | 3.6 | 12 |
| 52 | Hard-templating of chiral TiO nanofibres with electron transition-based optical activity. *Science and Technology of Advanced Materials*, **2015**, 16, 054206 | 7.1 | 11 |
| 51 | Formation of Enantiomeric Impeller-Like Helical Architectures by DNA Self-Assembly and Silica Mineralization. *Angewandte Chemie*, **2012**, 124, 947-951 | 3.6 | 10 |
| 50 | Chiral Mesostructured NiO Films with Spin Polarisation. *Angewandte Chemie - International Edition*, **2021**, 60, 9421-9426 | 16.4 | 10 |
| 49 | □Interactions Between Aromatic Groups in Amphiphilic Molecules: Directing Hierarchical Growth of Porous Zeolites. *Angewandte Chemie - International Edition*, **2020**, 59, 50-60 | 16.4 | 9 |
| 48 | One-Pot Synthesis and Formation Mechanism of Hollow ZSM-5. *Chemistry - A European Journal*, **2019**, 25, 6196-6202 | 4.8 | 8 |
| 47 | Chiral mesostructured SnO2 films with tunable optical activities. *Optical Materials*, **2019**, 94, 21-27 | 3.3 | 7 |
| 46 | Silica cubosomes templated by a star polymer.. *RSC Advances*, **2019**, 9, 6118-6124 | 3.7 | 7 |
| 45 | Controllable synthesis of silica hollow spheres by vesicle templating of silicone surfactants. *Journal of Materials Science*, **2013**, 48, 1890-1898 | 4.3 | 7 |
| 44 | Crystal twinning of bicontinuous cubic structures. *IUCrJ*, **2020**, 7, 228-237 | 4.7 | 7 |
| 43 | Spontaneous chiral self-assembly of achiral AIEgens into AIEgen-silica hybrid nanotubes. *Chemical Communications*, **2019**, 55, 14438-14441 | 5.8 | 7 |
| 42 | Bolaform Molecules Directing Intergrown Zeolites. *Journal of Physical Chemistry C*, **2018**, 122, 9117-9126 | 3.8 | 6 |
| 41 | Synthesis of ultra-small mordenite zeolite nanoparticles. *Science China Materials*, **2018**, 61, 1185-1190 | 7.1 | 6 |
| 40 | Oriented Chiral DNA□Silica Film Guided by a Natural Mica Substrate. *Angewandte Chemie*, **2016**, 128, 2077-2081 | 3.6 | 6 |

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| 39 | Chiral Mesostructured BiOBr Films with Circularly Polarized Colour Response. *Angewandte Chemie - International Edition*, **2021**, 60, 19024-19029 | 16.4 | 6 |
| 38 | Resistance-Chiral Anisotropy of Chiral Mesostructured Half-metallic Fe O Films. *Angewandte Chemie - International Edition*, **2021**, 60, 20036-20041 | 16.4 | 6 |
| 37 | Synthesis of hierarchical MFI zeolites with a micro-macroporous core@mesoporous shell structure. *Chemical Communications*, **2019**, 55, 810-813 | 5.8 | 5 |
| 36 | Functional group-template integrated ABC copolymer silicone surfactant directing for highly hydrophobic mesoporous silica. *Journal of Materials Chemistry*, **2012**, 22, 19076 | | 5 |
| 35 | Molecular design of AEC tri-block anionic surfactant towards rational synthesis of targeted thick-walled mesoporous silica. *Journal of Materials Chemistry*, **2009**, 19, 3404 | | 5 |
| 34 | Spontaneous chiral self-assembly of CdSe@CdS nanorods. *CheM*, **2021**, | 16.2 | 5 |
| 33 | Structure Characterization of Mesoporous Materials by Electron Microscopy. *The Enzymes*, **2018**, 43, 11-30 | 2.3 | 5 |
| 32 | Highly ordered AIEgen directed silica hybrid mesostructures and their light-emitting behaviours. *Journal of Materials Chemistry C*, **2019**, 7, 346-353 | 7.1 | 4 |
| 31 | Synthesis of chiral mesostructured titanium dioxide films. *Chemical Communications*, **2020**, 56, 4848-4851 | 5.8 | 4 |
| 30 | Additive-free synthesis of mesoporous FAU-type zeolite with intergrown structure. *Science China Materials*, **2018**, 61, 1095-1100 | 7.1 | 4 |
| 29 | Molecular design of the amphiphilic AB diblock copolymer toward one-step synthesis of amino-group functionalized large pore mesoporous silica. *RSC Advances*, **2014**, 4, 43047-43051 | 3.7 | 4 |
| 28 | Fabrication of Chiral Materials via Self-Assembly and Biomineralization of Peptides. *Chemical Record*, **2015**, 15, 665-74 | 6.6 | 4 |
| 27 | Hierarchal multi-lamellar silica vesicle clusters synthesized through self-assembly and mineralization. *RSC Advances*, **2015**, 5, 102256-102260 | 3.7 | 4 |
| 26 | Photomagnetic-chiral anisotropy of chiral nanostructured gold films. *CheM*, **2021**, | 16.2 | 4 |
| 25 | Silver Films with Hierarchical Chirality. *Angewandte Chemie*, **2017**, 129, 8783-8788 | 3.6 | 3 |
| 24 | Chiral Nanoparticles: Chirality of Metal Nanoparticles in Chiral Mesoporous Silica (Adv. Funct. Mater. 18/2012). *Advanced Functional Materials*, **2012**, 22, 3750-3750 | 15.6 | 3 |
| 23 | Self-Assembly of Single-Diamond-Surface Networks. *Angewandte Chemie - International Edition*, **2021**, 60, 15236-15242 | 16.4 | 3 |
| 22 | Mesoporous Silica Microspheres Composited with SBA-15s for Resonance Frequency Reduction in a Miniature Loudspeaker. *Chemical Research in Chinese Universities*, **2020**, 36, 760-767 | 2.2 | 3 |

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| 21 | Hierarchical MFI Zeolites with a Single-Crystalline Sponge-Like Mesostructure. *Chemistry - A European Journal*, **2018**, 24, 19300-19308 | 4.8 | 3 |
| 20 | Fabrication of Photonic Bandgap Materials by Shifting Double Frameworks. *Chemistry - A European Journal*, **2018**, 24, 17389-17396 | 4.8 | 3 |
| 19 | Chiral hierarchical structure of bone minerals. *Nano Research*,1 | 10 | 3 |
| 18 | Formation of Lamellar Mesostructured Crystalline Silica by Self-assembly of CTAB. *Chemical Research in Chinese Universities*, **2019**, 35, 359-362 | 2.2 | 2 |
| 17 | Poly[platinum(IV)-alt-PEI]/Akt1 shRNA complexes for enhanced anticancer therapy. *RSC Advances*, **2016**, 6, 65854-65865 | 3.7 | 2 |
| 16 | Interactions Between Aromatic Groups in Amphiphilic Molecules: Directing Hierarchical Growth of Porous Zeolites. *Angewandte Chemie*, **2020**, 132, 50-60 | 3.6 | 2 |
| 15 | Self-Assembly of Chiral Nematic-Like Films with Chiral Nanorods Directed by Chiral Molecules. *Chemistry of Materials*, **2021**, 33, 6227-6232 | 9.6 | 2 |
| 14 | Enantioselective Interaction between Cells and Chiral Hydroxyapatite Films. *Chemistry of Materials*, **2022**, 34, 53-62 | 9.6 | 2 |
| 13 | DNA Condensed Phase and DNA-Inorganic Hybrid Mesostructured Materials. *ACS Symposium Series*, **2017**, 49-79 | 0.4 | 1 |
| 12 | Mechanism of diastereoisomer-induced chirality of BiOBr.. *Chemical Science*, **2022**, 13, 2450-2455 | 9.4 | 1 |
| 11 | Spin Selectivity of Chiral Mesostructured Iron Oxides with Different Magnetisms.. *Small*, **2022**, e2104509 | 11 | 1 |
| 10 | Library Creation of Ultrasmall Multi-metallic Nanoparticles Confined in Mesoporous MFI Zeolites. *Angewandte Chemie*, **2021**, 133, 14692-14698 | 3.6 | 1 |
| 9 | Library Creation of Ultrasmall Multi-metallic Nanoparticles Confined in Mesoporous MFI Zeolites. *Angewandte Chemie - International Edition*, **2021**, 60, 14571-14577 | 16.4 | 1 |
| 8 | Chiral Mesostructured NiO Films with Spin Polarisation. *Angewandte Chemie*, **2021**, 133, 9507-9512 | 3.6 | 1 |
| 7 | Chiral Mesostructured BiOBr Films with Circularly Polarized Colour Response. *Angewandte Chemie*, **2021**, 133, 19172-19177 | 3.6 | 1 |
| 6 | DNA-Assisted Creation of a Library of Ultrasmall Multimetal/Metal Oxide Nanoparticles Confined in Silica.. *Small*, **2022**, e2107123 | 11 | 1 |
| 5 | Chiral Mesostructured Carbonate with Vibrational Circular Dichroism. *Advanced Optical Materials*,2102648 | 8.1 | 1 |
| 4 | Chiral Nanostructured Bimetallic Au@Ag Films for Enantiomeric Discrimination. *Advanced Materials Interfaces*,2200369 | 4.6 | 0 |

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| 3 | Frontispiece: Silica Scaffold with Shifted Plumber's Nightmare Networks and their Interconversion into Diamond Networks. *Angewandte Chemie - International Edition*, **2017**, 56, 10610-10610 | 16.4 |
| 2 | Chiral Mesoporous Silica Materials **2017**, 121-177 | |
| 1 | Resistance-Chiral Anisotropy of Chiral Mesostructured Half-metallic Fe3O4 Films. *Angewandte Chemie*, **2021**, 133, 20189-20194 | 3.6 |