

Yu Jihong

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17,957
ext. citations

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L-index

#	Paper	IF	Citations
289	Extra-large-pore zeolites: bridging the gap between micro and mesoporous structures. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3120-45	16.4	401
288	In Situ Confinement of Ultrasmall Pd Clusters within Nanosized Silicalite-1 Zeolite for Highly Efficient Catalysis of Hydrogen Generation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7484-7	16.4	375
287	New stories of zeolite structures: their descriptions, determinations, predictions, and evaluations. <i>Chemical Reviews</i> , 2014 , 114, 7268-316	68.1	356
286	Synthesis of new zeolite structures. <i>Chemical Society Reviews</i> , 2015 , 44, 7112-27	58.5	336
285	Zeolite-coated mesh film for efficient oil/water separation. <i>Chemical Science</i> , 2013 , 4, 591-595	9.4	335
284	Synthesis and structure determination of the hierarchical meso-microporous zeolite ITQ-43. <i>Science</i> , 2011 , 333, 1131-4	33.3	312
283	Rich structure chemistry in the aluminophosphate family. <i>Accounts of Chemical Research</i> , 2003 , 36, 481-90	24.3	302
282	Applications of Zeolites in Sustainable Chemistry. <i>CheM</i> , 2017 , 3, 928-949	16.2	293
281	Insight into the construction of open-framework aluminophosphates. <i>Chemical Society Reviews</i> , 2006 , 35, 593-604	58.5	284
280	Solvatochromic AIE luminogens as supersensitive water detectors in organic solvents and highly efficient cyanide chemosensors in water. <i>Chemical Science</i> , 2014 , 5, 2710	9.4	228
279	2007 ,		216
278	Accelerated crystallization of zeolites via hydroxyl free radicals. <i>Science</i> , 2016 , 351, 1188-91	33.3	215
277	Needs and trends in rational synthesis of zeolitic materials. <i>Chemical Society Reviews</i> , 2012 , 41, 1729-41	58.5	209
276	Near-infrared light-responsive supramolecular nanovalve based on mesoporous silica-coated gold nanorods. <i>Chemical Science</i> , 2014 , 5, 2804	9.4	202
275	Nanosize-Enhanced Lifetime of SAPO-34 Catalysts in Methanol-to-Olefin Reactions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8214-8222	3.8	197
274	Supersensitive detection of explosives by recyclable AIE luminogen-functionalized mesoporous materials. <i>Chemical Communications</i> , 2012 , 48, 7167-9	5.8	196
273	Carbon dots in zeolites: A new class of thermally activated delayed fluorescence materials with ultralong lifetimes. <i>Science Advances</i> , 2017 , 3, e1603171	14.3	194

272	Rational approaches toward the design and synthesis of zeolitic inorganic open-framework materials. <i>Accounts of Chemical Research</i> , 2010 , 43, 1195-204	24.3	186
271	Organosilane surfactant-directed synthesis of hierarchical porous SAPO-34 catalysts with excellent MTO performance. <i>Chemical Communications</i> , 2014 , 50, 6502-5	5.8	159
270	Zeolite-Encaged Single-Atom Rhodium Catalysts: Highly-Efficient Hydrogen Generation and Shape-Selective Tandem Hydrogenation of Nitroarenes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18570-18576	16.4	152
269	The synthesis of an extra-large-pore zeolite with double three-ring building units and a low framework density. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4986-8	16.4	152
268	Subnanometric Hybrid Pd-M(OH) ₂ , M = Ni, Co, Clusters in Zeolites as Highly Efficient Nanocatalysts for Hydrogen Generation. <i>Chem</i> , 2017 , 3, 477-493	16.2	148
267	Ultrasmall Metal Nanoparticles Confined within Crystalline Nanoporous Materials: A Fascinating Class of Nanocatalysts. <i>Advanced Materials</i> , 2019 , 31, e1803966	24	148
266	Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7384-7389	16.4	134
265	Synthesis and Characterization of High-Quality Zeolite LTA and FAU Single Nanocrystals. <i>Chemistry of Materials</i> , 1998 , 10, 1483-1486	9.6	133
264	A Hollow Porous CdS Photocatalyst. <i>Advanced Materials</i> , 2018 , 30, e1804368	24	124
263	Chiral zeolitic materials: structural insights and synthetic challenges. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4021		108
262	Infused-liquid-switchable porous nanofibrous membranes for multiphase liquid separation. <i>Nature Communications</i> , 2017 , 8, 575	17.4	107
261	A novel (3,3,6)-connected luminescent metal-organic framework for sensing of nitroaromatic explosives. <i>Dalton Transactions</i> , 2013 , 42, 5508-13	4.3	105
260	The state-of-the-art synthetic strategies for SAPO-34 zeolite catalysts in methanol-to-olefin conversion. <i>National Science Review</i> , 2018 , 5, 542-558	10.8	103
259	A highly stable and flexible zeolite electrolyte solid-state Li-air battery. <i>Nature</i> , 2021 , 592, 551-557	50.4	103
258	Methylviologen-templated layered bimetal phosphate: a multifunctional X-ray-induced photochromic material. <i>Chemical Science</i> , 2014 , 5, 4237-4241	9.4	102
257	Methanol to olefins: activity and stability of nanosized SAPO-34 molecular sieves and control of selectivity by silicon distribution. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14670-80	3.6	99
256	Criteria for zeolite frameworks realizable for target synthesis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1673-7	16.4	93
255	Methyl viologen-templated zinc gallophosphate zeolitic material with dual photo-/thermochromism and tuneable photovoltaic activity. <i>Chemical Science</i> , 2015 , 6, 2922-2927	9.4	92

254	A green surfactant-assisted synthesis of hierarchical TS-1 zeolites with excellent catalytic properties for oxidative desulfurization. <i>Chemical Communications</i> , 2016 , 52, 3368-71	5.8	92
253	Flexible inorganic nanofibrous membranes with hierarchical porosity for efficient water purification. <i>Chemical Science</i> , 2013 , 4, 4378	9.4	90
252	A 4 + 4 strategy for synthesis of zeolitic metal-organic frameworks: an indium-MOF with SOD topology as a light-harvesting antenna. <i>Chemical Communications</i> , 2013 , 49, 11155-7	5.8	89
251	Cotemplating Ionothermal Synthesis of a New Open-Framework Aluminophosphate with Unique Al/P Ratio of 6/7. <i>Chemistry of Materials</i> , 2008 , 20, 4179-4181	9.6	89
250	Roselike Microstructures Formed by Direct In Situ Hydrothermal Synthesis: From Superhydrophilicity to Superhydrophobicity. <i>Chemistry of Materials</i> , 2005 , 17, 6177-6180	9.6	89
249	Synthesis of tri-level hierarchical SAPO-34 zeolite with intracrystalline micro/meso/macroporosity showing superior MTO performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19783-19789	13	87
248	A non-chemically selective top-down approach towards the preparation of hierarchical TS-1 zeolites with improved oxidative desulfurization catalytic performance. <i>Chemical Communications</i> , 2016 , 52, 3580-3	5.8	87
247	Carbon Dots-in-Matrix Boosting Intriguing Luminescence Properties and Applications. <i>Small</i> , 2019 , 15, e1805504	11	87
246	Nanopore-Supported Metal Nanocatalysts for Efficient Hydrogen Generation from Liquid-Phase Chemical Hydrogen Storage Materials. <i>Advanced Materials</i> , 2020 , 32, e2001818	24	86
245	Seeding induced nano-sized hierarchical SAPO-34 zeolites: cost-effective synthesis and superior MTO performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14978-14982	13	86
244	Carbogenic nanodots derived from organo-templated zeolites with modulated full-color luminescence. <i>Chemical Science</i> , 2016 , 7, 3564-3568	9.4	86
243	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19450-19459	16.4	85
242	Red Room-Temperature Phosphorescence of CDs@Zeolite Composites Triggered by Heteroatoms in Zeolite Frameworks. <i>ACS Central Science</i> , 2019 , 5, 349-356	16.8	82
241	In situ growth-etching approach to the preparation of hierarchically macroporous zeolites with high MTO catalytic activity and selectivity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17994-18004	13	82
240	Conversion of methanol to olefins: Stabilization of nanosized SAPO-34 by hydrothermal treatment. <i>Journal of Catalysis</i> , 2015 , 329, 379-388	7.3	81
239	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17828-17839	13	79
238	Luminescent microporous organic polymers containing the 1,3,5-tri(4-ethenylphenyl)benzene unit constructed by Heck coupling reaction. <i>Polymer Chemistry</i> , 2013 , 4, 1932	4.9	79
237	Luminescent carbon dots in a new magnesium aluminophosphate zeolite. <i>Chemical Communications</i> , 2013 , 49, 9006-8	5.8	78

236	Multifunctional open-framework zinc phosphate $[C_{12}H_{14}N_2][Zn_6(PO_4)_4(HPO_4)(H_2O)_2]$: photochromic, photoelectric and fluorescent properties. <i>Chemical Communications</i> , 2013 , 49, 4995-7	5.8	78
235	Heteroatom-stabilized chiral framework of aluminophosphate molecular sieves. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 314-7	16.4	78
234	Fabrication of SAPO-34 Crystals with Different Morphologies by Microwave Heating. <i>Topics in Catalysis</i> , 2010 , 53, 1304-1310	2.3	78
233	A crystalline germanate with mesoporous 30-ring channels. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14128-9	16.4	77
232	Fabrication of hierarchically porous inorganic nanofibers by a general microemulsion electrospinning approach. <i>Small</i> , 2011 , 7, 1779-83	11	74
231	Synthesis of anatase-free nano-sized hierarchical TS-1 zeolites and their excellent catalytic performance in alkene epoxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9473-9479	13	73
230	AlEgens-Functionalized Inorganic-Organic Hybrid Materials: Fabrications and Applications. <i>Small</i> , 2016 , 12, 6478-6494	11	71
229	Fabrication of Zeolite Hollow Fibers by Coaxial Electrospinning. <i>Chemistry of Materials</i> , 2008 , 20, 3543-3545	14.5	70
228	Fine structures of zeolite-Linde-L (LTL): surface structures, growth unit and defects. <i>Chemistry - A European Journal</i> , 2004 , 10, 5031-40	4.8	69
227	Creating Hierarchical Pores in Zeolite Catalysts. <i>Trends in Chemistry</i> , 2019 , 1, 601-611	14.8	68
226	Amino Acid-Assisted Construction of Single-Crystalline Hierarchical Nanozeolites via Oriented-Aggregation and Intraparticle Ripening. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3772-3776	16.4	67
225	Nanocrystalline SSZ-39 zeolite as an efficient catalyst for the methanol-to-olefin (MTO) process. <i>Chemical Communications</i> , 2016 , 52, 6072-5	5.8	67
224	Structures and Templating Effect in the Formation of 2D Layered Aluminophosphates with Al ₃ P ₄ O ₁₆ - Stoichiometry. <i>Chemistry of Materials</i> , 1999 , 11, 2600-2606	9.6	67
223	A top-down approach to hierarchical SAPO-34 zeolites with improved selectivity of olefin. <i>Microporous and Mesoporous Materials</i> , 2016 , 234, 401-408	5.3	67
222	Carbon Dots in a Matrix: Energy-Transfer-Enhanced Room-Temperature Red Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18443-18448	16.4	66
221	Synthesis of hierarchical TS-1 zeolites with abundant and uniform intracrystalline mesopores and their highly efficient catalytic performance for oxidation desulfurization. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7992-7998	13	65
220	Ultrafast synthesis of nano-sized zeolite SAPO-34 with excellent MTO catalytic performance. <i>Chemical Communications</i> , 2015 , 51, 16397-400	5.8	64
219	A germanate built from a 6(8)12(6) cavity cotemplated by an (H ₂ O) ₁₆ cluster and 2-methylpiperazine. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7868-71	16.4	64

218	Antibacterial and anti-adhesive zeolite coatings on titanium alloy surface. <i>Microporous and Mesoporous Materials</i> , 2011 , 146, 216-222	5.3	61
217	Applications of Zeolites to C1 Chemistry: Recent Advances, Challenges, and Opportunities. <i>Advanced Materials</i> , 2020 , 32, e2002927	24	61
216	Supramolecular Nanosystem Based on Pillararene-Capped CuS Nanoparticles for Targeted Chemo-Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29314-29324	9.5	59
215	A one-pot synthetic strategy via tandem Suzuki-Bleck reactions for the construction of luminescent microporous organic polymers. <i>Polymer Chemistry</i> , 2014 , 5, 471-478	4.9	59
214	Mesoporous silica functionalized with an AIE luminogen for drug delivery. <i>Chemical Communications</i> , 2011 , 47, 11077-9	5.8	59
213	Coupling of chromophores with exactly opposite luminescence behaviours in mesostructured organosilicas for high-efficiency multicolour emission. <i>Chemical Science</i> , 2015 , 6, 6097-6101	9.4	58
212	Radical-Facilitated Green Synthesis of Highly Ordered Mesoporous Silica Materials. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4770-4773	16.4	58
211	Template-Designed Syntheses of Open-Framework Zinc Phosphites with Extra-Large 24-Ring Channels. <i>Crystal Growth and Design</i> , 2008 , 8, 2318-2323	3.5	58
210	State of the Art and Perspectives of Hierarchical Zeolites: Practical Overview of Synthesis Methods and Use in Catalysis. <i>Advanced Materials</i> , 2020 , 32, e2004690	24	58
209	High-Quality Single-Crystalline MFI-Type Nanozeolites: A Facile Synthetic Strategy and MTP Catalytic Studies. <i>Chemistry of Materials</i> , 2018 , 30, 2750-2758	9.6	57
208	Ionothermal synthesis of extra-large-pore open-framework nickel phosphite 5H ₃ O[Ni ₈ (HPO ₃) ₉ Cl ₃].1.5H ₂ O: magnetic anisotropy of the antiferromagnetism. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2328-31	16.4	57
207	Fabrication of superhydrophilic Cu ₂ O and CuO membranes. <i>Journal of Membrane Science</i> , 2006 , 286, 279-284	9.6	55
206	Amino-Functionalized Porous Nanofibrous Membranes for Simultaneous Removal of Oil and Heavy-Metal Ions from Wastewater. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1672-1679	9.5	55
205	Thermally treated zeolitic imidazolate framework-8 (ZIF-8) for visible light photocatalytic degradation of gaseous formaldehyde. <i>Chemical Science</i> , 2020 , 11, 6670-6681	9.4	54
204	Solid-state NMR spectroscopy of anionic framework aluminophosphates: a new method to determine the a/p ratio. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2131-7	3.4	54
203	In silico prediction and screening of modular crystal structures via a high-throughput genomic approach. <i>Nature Communications</i> , 2015 , 6, 8328	17.4	53
202	2H ₃ O[Co ₈ (HPO ₃) ₉ (CH ₃ OH) ₃].2H ₂ O: An Open-Framework Cobalt Phosphite Containing Extra-Large 18-Ring Channels. <i>Chemistry of Materials</i> , 2008 , 20, 17-19	9.6	53
201	Zeolite-Encaged Pd-Mn Nanocatalysts for CO Hydrogenation and Formic Acid Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20183-20191	16.4	52

200	AlEgen-Functionalized Mesoporous Silica Gated by Cyclodextrin-Modified CuS for Cell Imaging and Chemo-Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12155-12163	9.5	51
199	[Ni(1,2-PDA) ₃] ₂ (HOCH ₂ CH ₂ CH ₂ NH ₃) ₃ (H ₃ O) ₂ [Ge ₇ O ₁₄ X ₃] ₃ (X = F, OH): A New 1D Germanate with 12-Ring Hexagonal Tubular Channels. <i>Chemistry of Materials</i> , 2008 , 20, 370-372	9.6	51
198	Intermediate-crystallization promoted catalytic activity of titanosilicate zeolites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8757-8762	13	50
197	Hydrothermal synthesis and characterization of a new inorganic-organic hybrid layered zinc phosphate-phosphite (C ₆ H ₁₅ N ₂) ₂ Zn ₄ (PO ₄) ₂ (HPO ₃) ₂ . <i>Dalton Transactions RSC</i> , 2002 , 4060-4063		50
196	Luminescence anti-counterfeiting: From elementary to advanced. <i>Aggregate</i> , 2021 , 2, 20-34	22.9	49
195	Template-Modulated Afterglow of Carbon Dots in Zeolites: Room-Temperature Phosphorescence and Thermally Activated Delayed Fluorescence 2019 , 1, 58-63		48
194	High proton conduction in a new alkali metal-templated open-framework aluminophosphate. <i>Chemical Communications</i> , 2015 , 51, 9317-9	5.8	48
193	Design of Chiral Zeolite Frameworks with Specified Channels through Constrained Assembly of Atoms. <i>Chemistry of Materials</i> , 2005 , 17, 4399-4405	9.6	48
192	Cost-effective synthesis of hierarchical SAPO-34 zeolites with abundant intracrystalline mesopores and excellent MTO performance. <i>Chemical Communications</i> , 2018 , 54, 3697-3700	5.8	46
191	Porous Materials Applied in Nonaqueous Li-O Batteries: Status and Perspectives. <i>Advanced Materials</i> , 2020 , 32, e2002559	24	46
190	Synergetic Effect of Ultrasmall Metal Clusters and Zeolites Promoting Hydrogen Generation. <i>Advanced Science</i> , 2019 , 6, 1802350	13.6	45
189	Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 7454-7459	3.6	45
188	AlE cation functionalized layered zirconium phosphate nanoplatelets: ion-exchange intercalation and cell imaging. <i>Chemical Communications</i> , 2013 , 49, 9549-51	5.8	45
187	Carbon Dots in Porous Materials: Host-Guest Synergy for Enhanced Performance. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19390-19402	16.4	45
186	The recyclable synthesis of hierarchical zeolite SAPO-34 with excellent MTO catalytic performance. <i>Chemical Communications</i> , 2015 , 51, 11987-9	5.8	44
185	Octavinylsilsesquioxane-based luminescent nanoporous inorganic-organic hybrid polymers constructed by the Heck coupling reaction. <i>Polymer Chemistry</i> , 2015 , 6, 917-924	4.9	44
184	Design and synthesis of a multifunctional porous N-rich polymer containing s-triazine and Tröger's base for CO ₂ adsorption, catalysis and sensing. <i>Polymer Chemistry</i> , 2018 , 9, 2643-2649	4.9	44
183	The Synthesis of an Extra-Large-Pore Zeolite with Double Three-Ring Building Units and a Low Framework Density. <i>Angewandte Chemie</i> , 2010 , 122, 5106-5108	3.6	44

182	Polyoxomolybdc Cobalt Encapsulated within Zr-Based Metal-Organic Frameworks as Efficient Heterogeneous Catalysts for Olefins Epoxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3624-3631	8.3	42
181	Toward a New Era of Designed Synthesis of Nanoporous Zeolitic Materials. <i>ACS Nano</i> , 2018 , 12, 4096-4106	6.7	41
180	AIE Luminogen-Functionalized Hollow Mesoporous Silica Nanospheres for Drug Delivery and Cell Imaging. <i>Chemistry - A European Journal</i> , 2016 , 22, 3681-5	4.8	40
179	Design and synthesis of two porous metal-organic frameworks with nbo and agw topologies showing high CO ₂ adsorption capacity. <i>Inorganic Chemistry</i> , 2013 , 52, 10720-2	5.1	39
178	Nanoseed-assisted synthesis of nano-sized SAPO-34 zeolites using morpholine as the sole template with superior MTO performance. <i>Chemical Communications</i> , 2017 , 53, 13328-13331	5.8	39
177	Simple Quaternary Ammonium Cations-Templated Syntheses of Extra-Large Pore Germanosilicate Zeolites. <i>Chemistry of Materials</i> , 2016 , 28, 6455-6458	9.6	39
176	CO ₂ adsorption and catalytic application of imidazole ionic liquid functionalized porous organic polymers. <i>Polymer Chemistry</i> , 2017 , 8, 1833-1839	4.9	36
175	A gallogermanate zeolite with eleven-membered-ring channels. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5501-3	16.4	36
174	AIE luminogen bridged hollow hydroxyapatite nanocapsules for drug delivery. <i>Dalton Transactions</i> , 2013 , 42, 9877-83	4.3	36
173	Investigation of Extra-Large Pore Zeolite Synthesis by a High-Throughput Approach. <i>Chemistry of Materials</i> , 2011 , 23, 4709-4715	9.6	36
172	Fabrication of super-hydrophobic and super-oleophilic boehmite membranes from anodic alumina oxide film via a two-phase thermal approach. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1741		36
171	A novel open-framework aluminophosphate[AlP ₂ O ₆ (OH) ₂][H ₃ O] containing propeller-like chiral motifs. <i>Chemical Communications</i> , 2000 , 1431-1432	5.8	36
170	A Bifunctional Photo-Assisted Li-O Battery Based on a Hierarchical Heterostructured Cathode. <i>Advanced Materials</i> , 2020 , 32, e1907098	24	36
169	Impregnating Subnanometer Metallic Nanocatalysts into Self-Pillared Zeolite Nanosheets. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6905-6914	16.4	36
168	AIE luminogen-functionalised mesoporous AIE nanomaterials for efficient detection of volatile gases. <i>Chemical Communications</i> , 2015 , 51, 13830-3	5.8	35
167	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. <i>Scientific Reports</i> , 2015 , 5, 11521	4.9	35
166	Na ₂ [VB ₃ P ₂ O ₁₂ (OH)]·2.92H ₂ O: A New Open-Framework Vanadium Borophosphate Containing Extra-Large 16-Ring Pore Openings and 128166 Super Cavities Synthesized by Using the Boric Acid Flux Method. <i>Chemistry of Materials</i> , 2008 , 20, 4900-4905	9.6	35
165	Morphology Changes of Transition-Metal-Substituted Aluminophosphate Molecular Sieve AlPO ₄ -5 Crystals. <i>Chemistry of Materials</i> , 2008 , 20, 2160-2164	9.6	35

164	Towards Rational Synthesis of Microporous Aluminophosphate AlPO ₄ -21 by Hydrothermal Combinatorial Approach. <i>Topics in Catalysis</i> , 2005 , 35, 3-8	2.3	34
163	Zeolite-confined carbon dots: tuning thermally activated delayed fluorescence emission via energy transfer. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1404-1410	7.8	34
162	A one-step rapid synthesis of TS-1 zeolites with highly catalytically active mononuclear TiO ₆ species. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9677-9683	13	33
161	Organotemplate-free synthesis of an open-framework magnesium aluminophosphate with proton conduction properties. <i>Chemical Communications</i> , 2015 , 51, 2149-51	5.8	33
160	Morphology control of self-stacked silicalite-1 crystals using microwave-assisted solvothermal synthesis. <i>Microporous and Mesoporous Materials</i> , 2007 , 104, 296-304	5.3	33
159	Emerging applications of zeolites in catalysis, separation and host-guest assembly. <i>Nature Reviews Materials</i> ,	73.3	33
158	A Metal-Rich Fluorinated Indium Phosphate, 4[NH ₃ (CH ₂) ₃ NH ₃][B[H ₃ O]] ₄ [In ₉ (PO ₄) ₆ (HPO ₄) ₂ F ₁₆][B(H ₂ O), with 14-Membered Ring Channels. <i>Chemistry of Materials</i> , 1998 , 10, 773-776	9.6	32
157	Mesoporogen-Free Synthesis of Hierarchical SAPO-34 with Low Template Consumption and Excellent Methanol-to-Olefin Conversion. <i>ChemSusChem</i> , 2018 , 11, 3812-3820	8.3	32
156	Creation of Al-Enriched Mesoporous ZSM-5 Nanoboxes with High Catalytic Activity: Converting Tetrahedral Extra-Framework Al into Framework Sites by Post Treatment. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19478-19486	16.4	31
155	An Extra-Large-Pore Zeolite with 2488-Ring Channels Using a Structure-Directing Agent Derived from Traditional Chinese Medicine. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6486-6490	16.4	31
154	Fabrication of molecular sieve fibers by electrospinning. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8511		31
153	Advanced Hybrid Electrolyte Li-O ₂ Battery Realized by Dual Superlyophobic Membrane. <i>Joule</i> , 2019 , 3, 2986-3001	27.8	30
152	Divalent-metal-stabilized aluminophosphates exhibiting a new zeolite framework topology. <i>Inorganic Chemistry</i> , 2012 , 51, 225-9	5.1	30
151	Progress in heteroatom-containing aluminophosphate molecular sieves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 1955-1967	2.4	30
150	Fabrication of bioactive 3D printed porous titanium implants with Sr ion-incorporated zeolite coatings for bone ingrowth. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3254-3261	7.3	29
149	Fluorescent sensors based on AlEgen-functionalised mesoporous silica nanoparticles for the detection of explosives and antibiotics. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2183-2188	6.8	29
148	Perovskite Quantum Dots Encapsulated in a Mesoporous Metal-Organic Framework as Synergistic Photocathode Materials. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14253-14260	16.4	29
147	A Green Selective Water-Etching Approach to MOF@Mesoporous SiO ₂ Yolk-Shell Nanoreactors with Enhanced Catalytic Stabilities. <i>Matter</i> , 2020 , 3, 498-508	12.7	28

146	Chiral layered zincophosphate [d-Co(en) ₃ Zn ₃ (H _{0.5} PO ₄) ₂ (HPO ₄) ₂] assembled about d-Co(en) ₃ ³⁺ complex cations. <i>Inorganic Chemistry</i> , 2006 , 45, 4764-8	5.1	28
145	A new layered aluminophosphate [C ₄ H ₁₂ N ₂][Al ₂ P ₂ O ₈ (OH) ₂] templated by piperazine. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1898-1902		28
144	Flexible Multifunctional Porous Nanofibrous Membranes for High-Efficiency Air Filtration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43409-43415	9.5	27
143	Multifunctional porous Tröger's base polymers with tetraphenylethene units: CO ₂ adsorption, luminescence and sensing properties. <i>Polymer Chemistry</i> , 2017 , 8, 4842-4848	4.9	27
142	AIE luminogen functionalized mesoporous silica nanoparticles as efficient fluorescent sensor for explosives detection in water. <i>Microporous and Mesoporous Materials</i> , 2014 , 196, 46-50	5.3	27
141	Fabricating Mechanically Robust Binder-Free Structured Zeolites by 3D Printing Coupled with Zeolite Soldering: A Superior Configuration for CO Capture. <i>Advanced Science</i> , 2019 , 6, 1901317	13.6	26
140	Confinement Effect of Zeolite Cavities on Methanol-to-Olefin Conversion: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24935-24940	3.8	26
139	Fabrication of silicalite-1 crystals with tunable aspect ratios by microwave-assisted solvothermal synthesis. <i>Microporous and Mesoporous Materials</i> , 2009 , 119, 217-222	5.3	26
138	Assembly of one-dimensional AlP ₂ O ₈ chains into three-dimensional MAIP ₂ O ₈ [C ₂ N ₂ H ₉] frameworks through transition metal cations (M = Ni ²⁺ , Co ²⁺ and Fe ²⁺). <i>Dalton Transactions</i> , 2003 , 99-103	10.3	26
137	Synthesis and characterization of a new three-dimensional aluminophosphate [Al ₁₁ P ₁₂ O ₄₈][C ₄ H ₁₂ N ₂][C ₄ H ₁₁ N ₂] with an Al/P ratio of 11 : 12. <i>Dalton Transactions RSC</i> , 2001 , 1809-1812		25
136	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19669-19674	16.4	24
135	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 19618-19627	3.6	24
134	Spontaneous crystallization of a new chiral open-framework borophosphate in the ionothermal system. <i>Dalton Transactions</i> , 2010 , 39, 1713-5	4.3	24
133	Carbon Dots-in-Zeolite via In-Situ Solvent-Free Thermal Crystallization: Achieving High-Efficiency and Ultralong Afterglow Dual Emission. <i>CCS Chemistry</i> , 2020 , 2, 118-127	7.2	24
132	Selective synthesis of citrus flavonoids prunin and naringenin using heterogeneized biocatalyst on graphene oxide. <i>Green Chemistry</i> , 2019 , 21, 839-849	10	23
131	Combining structure modeling and electron microscopy to determine complex zeolite framework structures. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4401-5	16.4	23
130	An amino acid-assisted approach to fabricate nanosized hierarchical TS-1 zeolites for efficient oxidative desulfurization. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1975-1980	6.8	23
129	Organotemplate-free hydrothermal synthesis of an aluminophosphate molecular sieve with AEN zeotype topology and properties of its derivatives. <i>Chemical Communications</i> , 2014 , 50, 15400-3	5.8	22

128	A new two-dimensional layered germanate with in situ embedded carbon dots for optical temperature sensing. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 139-144	6.8	22
127	Three-Dimensional-Printed Core-Shell Structured MFI-Type Zeolite Monoliths for Volatile Organic Compound Capture under Humid Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38955-38963	9.5	21
126	Surfactant-assisted sol-gel synthesis of zirconia supported phosphotungstates or Ti-substituted phosphotungstates for catalytic oxidation of cyclohexene. <i>Applied Catalysis A: General</i> , 2014 , 482, 84-91	5.1	21
125	Fabrication and catalytic performance of highly stable multifunctional core-shell zeolite composites. <i>Inorganic Chemistry</i> , 2013 , 52, 10708-10	5.1	21
124	Criteria for Zeolite Frameworks Realizable for Target Synthesis. <i>Angewandte Chemie</i> , 2013 , 125, 1717-1726	3.6	21
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122	Computational prediction of the formation of microporous aluminophosphates with desired structural features. <i>Microporous and Mesoporous Materials</i> , 2010 , 129, 251-255	5.3	20
121	Enhancing CO Adsorption and Separation Properties of Aluminophosphate Zeolites by Isomorphous Heteroatom Substitutions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43570-43577	9.5	20
120	Organic-Free Synthesis of Zeolite Y with High Si/Al Ratios: Combined Strategy of In Situ Hydroxyl Radical Assistance and Post-Synthesis Treatment. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17225-17228	16.4	19
119	Side-chain alkylation of toluene with methanol over boron phosphate modified cesium ion-exchanged zeolite X catalysts. <i>Journal of Porous Materials</i> , 2015 , 22, 1179-1186	2.4	19
118	Advances in Catalytic Applications of Zeolite-Supported Metal Catalysts. <i>Advanced Materials</i> , 2021 , e210442	4.42	19
117	Under-liquid dual superlyophobic nanofibrous polymer membranes achieved by coating thin-film composites: a design principle. <i>Chemical Science</i> , 2019 , 10, 6382-6389	9.4	18
116	FraGen: a computer program for real-space structure solution of extended inorganic frameworks. <i>Journal of Applied Crystallography</i> , 2012 , 45, 855-861	3.8	18
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114	Inhibiting the Leidenfrost effect above 1,000 °C for sustained thermal cooling.. <i>Nature</i> , 2022 , 601, 568-572	5.4	18
113	Efficient post-synthesis of hierarchical SAPO-34 zeolites via organic amine etching under hydrothermal conditions and their enhanced MTO performance. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1299-1303	6.8	17
112	Temperature-regulated construction of hierarchical titanosilicate zeolites. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1872-1879	6.8	17
111	An efficient synthetic route to accelerate zeolite synthesis via radicals. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2106-2110	6.8	17

110	Carbon Dots in a Matrix: Energy-Transfer-Enhanced Room-Temperature Red Phosphorescence. <i>Angewandte Chemie</i> , 2019 , 131, 18614-18619	3.6	17
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103	Zeolite-Encaged Pd/Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 20358-20366	3.6	16
102	Functionalization of Zirconium-Based Metal-Organic Layers with Tailored Pore Environments for Heterogeneous Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18224-18228	16.4	15
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81	Spatially separated bimetallic cocatalysts on hollow-structured TiO ₂ for photocatalytic hydrogen generation. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1671-1678	7.8	12
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79	Na ₈ CeSi ₆ O ₁₈ and Its Ti-Doped Analogue Na ₈ Ce _{0.73} Ti _{0.27} Si ₆ O ₁₈ with Interesting Photovoltaic Properties. <i>Chemistry of Materials</i> , 2011 , 23, 2842-2847	9.6	12
78	Porous Membranes with Special Wettabilities: Designed Fabrication and Emerging Application. <i>CCS Chemistry</i> , 2021 , 3, 2280-2297	7.2	12
77	Lifetime-Engineered Phosphorescent Carbon Dots-in-Zeolite Composites for Naked-Eye Visible Multiplexing. <i>CCS Chemistry</i> , 252-264	7.2	12
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63	Ionothermal synthesis and magnetic study of a new manganese(II) phosphite with an unprecedented Mn/P ratio. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 924-927	6.8	8
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60	Genetic engineering of inorganic functional modular materials. <i>Chemical Science</i> , 2016 , 7, 3472-3481	9.4	8
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17	Mesoporogen-free synthesis of nanosized hierarchical ITQ-21 zeolites. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1184-1188	6.8	1
16	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 19837-19842	3.6	1
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