Peng Tian

List of Publications by Year in descending order

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| | | 136950 | 95266 |
|----------|----------------|--------------|----------------|
| 105 | 4,993 | 32 | 68 |
| papers | citations | h-index | g-index |
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| 105 | 105 | 105 | 3111 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A dual-bed catalyst for producing ethylene and propylene from syngas. Journal of Energy Chemistry, 2022, 66, 190-194. | 12.9 | 13 |
| 2 | Hydrothermal synthesis of Siliceous Beta Zeolite by an inorganic cation-driven strategy and its crystallization mechanism. Microporous and Mesoporous Materials, 2022, 329, 111557. | 4.4 | 7 |
| 3 | Progress in Seed-assisted Synthesis of (Silico)Aluminophosphate Molecular Sieves. Chemical Research in Chinese Universities, 2022, 38, 1-8. | 2.6 | 8 |
| 4 | SAPO-34 crystals with nanosheet morphology synthesized by pyrophosphoric acid as new phosphorus source. Microporous and Mesoporous Materials, 2022, 333, 111753. | 4.4 | 7 |
| 5 | High-silica zeolite Y: seed-assisted synthesis, characterization and catalytic properties. Inorganic Chemistry Frontiers, 2022, 9, 2213-2220. | 6.0 | 6 |
| 6 | Designed synthesis of MOR zeolites using gemini-type bis(methylpyrrolidinium) dications as structure directing agents and their DME carbonylation performance. Journal of Materials Chemistry A, 2022, 10, 8334-8343. | 10.3 | 6 |
| 7 | Simultaneously Achieving High Conversion and Selectivity in Syngas-to-Propane Reaction via a Dual-Bed Catalyst System. ACS Catalysis, 2022, 12, 3985-3994. | 11.2 | 8 |
| 8 | Realizing Fast Synthesis of Highâ€Silica Zeolite Y with Remarkable Catalytic Performance. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 10 |
| 9 | Recognizing the Important Role of Surface Barriers in MOR Zeolite Catalyzed DME Carbonylation Reaction. ACS Catalysis, 2022, 12, 1-7. | 11.2 | 21 |
| 10 | Synthesis of mesoporous high-silica zeolite Y and their catalytic cracking performance. Chinese Journal of Catalysis, 2022, 43, 1945-1954. | 14.0 | 18 |
| 11 | Conversion of methanol to propylene over SAPO-14: Reaction mechanism and deactivation. Chinese Journal of Catalysis, 2022, 43, 2259-2269. | 14.0 | 8 |
| 12 | One-pot synthesis of Na+-free Cu-SSZ-13 and its application in the NH3–SCR reaction. Chemical Communications, 2021, 57, 4898-4901. | 4.1 | 3 |
| 13 | Embryonic zeolite-assisted synthesis of SSZ-13 with superior efficiency and their excellent catalytic performance. Journal of Materials Chemistry A, 2021, 9, 15238-15245. | 10.3 | 17 |
| 14 | Dual-template directed aminothermal syntheses and characterization of silicoaluminophosphates SAPO-CLO and ECR-40. Microporous and Mesoporous Materials, 2021, 315, 110915. | 4.4 | 8 |
| 15 | Exploring boron distributions in MFI-type borosilicates. Inorganic Chemistry Communication, 2021, 126, 108467. | 3.9 | 1 |
| 16 | The Complex Crystal Structure and Abundant Local Defects of Zeolite EMMâ€17 Unraveled by Combined Electron Crystallography and Microscopy. Angewandte Chemie, 2021, 133, 24429. | 2.0 | 0 |
| 17 | The Complex Crystal Structure and Abundant Local Defects of Zeolite EMMâ€17 Unraveled by Combined Electron Crystallography and Microscopy. Angewandte Chemie - International Edition, 2021, 60, 24227-24233. | 13.8 | 9 |
| 18 | Organic-free synthesis of MOR nanoassemblies with excellent DME carbonylation performance. Chinese Journal of Catalysis, 2021, 42, 1468-1477. | 14.0 | 19 |

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|----|---|------|-----------|
| 19 | DMTO: A Sustainable Methanol-to-Olefins Technology. Engineering, 2021, 7, 17-21. | 6.7 | 30 |
| 20 | The effect of Si environments on NH3 selective catalytic reduction performance and moisture stability of Cu-SAPO-34 catalysts. Journal of Catalysis, 2020, 391, 404-413. | 6.2 | 30 |
| 21 | Rational Design of a Novel Catalyst Cuâ€SAPOâ€42 for NH ₃ â€SCR Reaction. Small, 2020, 16, e2000902. | 10.0 | 9 |
| 22 | Fabrication of Cu-CHA composites with enhanced NH3-SCR catalytic performances and hydrothermal stabilities. Microporous and Mesoporous Materials, 2020, 309, 110585. | 4.4 | 20 |
| 23 | A reconstruction strategy for the synthesis of Cu-SAPO-34 with excellent NH3-SCR catalytic performance and hydrothermal stability. Chinese Journal of Catalysis, 2020, 41, 1410-1420. | 14.0 | 16 |
| 24 | A Bottomâ€Up Strategy for the Synthesis of Highly Siliceous Faujasiteâ€Type Zeolite. Advanced Materials, 2020, 32, e2000272. | 21.0 | 45 |
| 25 | Preparation of hierarchical SAPO-18 via alkaline/acid etching. Microporous and Mesoporous Materials, 2020, 300, 110156. | 4.4 | 11 |
| 26 | High Propylene Selectivity in Methanol Conversion over a Small-Pore SAPO Molecular Sieve with Ultra-Small Cage. ACS Catalysis, 2020, 10, 3741-3749. | 11.2 | 32 |
| 27 | Insights into the Pyridine-Modified MOR Zeolite Catalysts for DME Carbonylation. ACS Catalysis, 2020, 10, 3372-3380. | 11.2 | 68 |
| 28 | Cu-SAPO-17: A novel catalyst for selective catalytic reduction of NO. Chinese Journal of Catalysis, 2020, 41, 1715-1722. | 14.0 | 6 |
| 29 | A modeling study on reaction and diffusion in MTO process over SAPO-34 zeolites. Chemical Engineering Journal, 2019, 377, 119668. | 12.7 | 50 |
| 30 | Highly selective adsorption of CO over N2 on CuCl-loaded SAPO-34 adsorbent. Journal of Energy Chemistry, 2019, 36, 122-128. | 12.9 | 18 |
| 31 | Recent Progress in Methanolâ€toâ€Olefins (MTO) Catalysts. Advanced Materials, 2019, 31, e1902181. | 21.0 | 217 |
| 32 | Landscape of AlPO-based structures and compositions in the database of zeolite structures. Microporous and Mesoporous Materials, 2019, 280, 105-115. | 4.4 | 17 |
| 33 | The self-protection effect of reactant gas on the moisture stability of CuSAPO-34 catalyst for NH3-SCR. Chemical Engineering Journal, 2019, 374, 832-839. | 12.7 | 21 |
| 34 | Direct quantification of surface barriers for mass transfer in nanoporous crystalline materials. Communications Chemistry, 2019, 2, . | 4.5 | 58 |
| 35 | Achieving a Superlong Lifetime in the Zeolite-Catalyzed MTO Reaction under High Pressure: Synergistic Effect of Hydrogen and Water. ACS Catalysis, 2019, 9, 3017-3025. | 11.2 | 91 |
| 36 | Probing locations of organic structure-directing agents (OSDAs) and host-guest interactions in CHA -type SAPO-34/44. Microporous and Mesoporous Materials, 2018, 264, 55-59. | 4.4 | 15 |

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| 37 | Exploring BrÃ,nsted acids confined in the 10-ring channels of the zeolite ferrierite. CrystEngComm, 2018, 20, 699-702. | 2.6 | 10 |
| 38 | Improving the low-temperature hydrothermal stability of Cu-SAPO-34 by the addition of Ag for ammonia selective catalytic reduction of NO x. Applied Catalysis A: General, 2018, 551, 79-87. | 4.3 | 25 |
| 39 | A novel approach for facilitating the targeted synthesis of silicoaluminophosphates. Journal of Materials Chemistry A, 2018, 6, 24186-24193. | 10.3 | 13 |
| 40 | Unraveling the Twin and Tunability of the Crystal Domain Sizes in the Mediumâ€Pore Zeolite ZSMâ€57 by Electron Crystallography. Chemistry - A European Journal, 2018, 25, 1029-1036. | 3.3 | 3 |
| 41 | Synthesis of nanosized SAPO-34 with the assistance of bifunctional amine and seeds. Chemical Communications, 2018, 54, 11160-11163. | 4.1 | 29 |
| 42 | Preparation of Spherical Mordenite Zeolite Assemblies with Excellent Catalytic Performance for Dimethyl Ether Carbonylation. ACS Applied Materials & Samp; Interfaces, 2018, 10, 32239-32246. | 8.0 | 39 |
| 43 | The influence of low-temperature hydration methods on the stability of Cu-SAPO-34 SCR catalyst. Chemical Engineering Journal, 2018, 354, 85-92. | 12.7 | 43 |
| 44 | External surface modification of as-made ZSM-5 and their catalytic performance in the methanol to propylene reaction. Chinese Journal of Catalysis, 2018, 39, 1418-1426. | 14.0 | 17 |
| 45 | Synthesis of high-Si hierarchical beta zeolites without mesoporogen and their catalytic application in the methanol to propene reaction. Catalysis Science and Technology, 2018, 8, 2966-2974. | 4.1 | 25 |
| 46 | Silicoaluminophosphate molecular sieve DNL-6: Synthesis with a novel template, N,N ′-dimethylethylenediamine, and its catalytic application. Chinese Journal of Catalysis, 2018, 39, 1511-1519. | 14.0 | 14 |
| 47 | Synthesis of SAPO-34 nanoaggregates with the assistance of an inexpensive three-in-one non-surfactant organosilane. Chemical Communications, 2017, 53, 4985-4988. | 4.1 | 45 |
| 48 | Insights into the aminothermal crystallization process of SAPO-34 and its comparison with hydrothermal system. Microporous and Mesoporous Materials, 2017, 248, 204-213. | 4.4 | 13 |
| 49 | Investigation of low-temperature hydrothermal stability of Cu-SAPO-34 for selective catalytic reduction of NO $_{\rm X}$ with NH 3. Chinese Journal of Catalysis, 2017, 38, 918-927. | 14.0 | 33 |
| 50 | SAPO-34 synthesized with n -butylamine as a template and its catalytic application in the methanol amination reaction. Chinese Journal of Catalysis, 2017, 38, 574-582. | 14.0 | 9 |
| 51 | Recent advances of the nano-hierarchical SAPO-34 in the methanol-to-olefin (MTO) reaction and other applications. Catalysis Science and Technology, 2017, 7, 4905-4923. | 4.1 | 115 |
| 52 | Investigation of methanol conversion over high-Si beta zeolites and the reaction mechanism of their high propene selectivity. Catalysis Science and Technology, 2017, 7, 5882-5892. | 4.1 | 33 |
| 53 | Organophosphorous surfactant-assistant synthesis of SAPO-34 molecular sieve with special morphology and improved MTO performance. RSC Advances, 2016, 6, 47864-47872. | 3.6 | 28 |
| 54 | A reconstruction strategy to synthesize mesoporous SAPO molecular sieve single crystals with high MTO catalytic activity. Chemical Communications, 2016, 52, 6463-6466. | 4.1 | 30 |

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| 55 | A low-temperature approach to synthesize low-silica SAPO-34 nanocrystals and their application in the methanol-to-olefins (MTO) reaction. Catalysis Science and Technology, 2016, 6, 7569-7578. | 4.1 | 89 |
| 56 | Microporous Aluminophosphate ULM-6: Synthesis, NMR Assignment, and Its Transformation to AlPO4-14 Molecular Sieve. Journal of Physical Chemistry C, 2016, 120, 11854-11863. | 3.1 | 7 |
| 57 | Direct Cu ²⁺ ion-exchanged into as-synthesized SAPO-34 and its catalytic application in the selective catalytic reduction of NO with NH ₃ . RSC Advances, 2016, 6, 12544-12552. | 3.6 | 32 |
| 58 | SAPO-34 templated by dipropylamine and diisopropylamine: synthesis and catalytic performance in the methanol to olefin (MTO) reaction. New Journal of Chemistry, 2016, 40, 4236-4244. | 2.8 | 29 |
| 59 | Creation of hollow SAPO-34 single crystals via alkaline or acid etching. Chemical Communications, 2016, 52, 5718-5721. | 4.1 | 58 |
| 60 | Hollow nanocrystals of silicoaluminophosphate molecular sieves synthesized by an aminothermal co-templating strategy. CrystEngComm, 2016, 18, 1000-1008. | 2.6 | 20 |
| 61 | Facile preparation of nanocrystal-assembled hierarchical mordenite zeolites with remarkable catalytic performance. Chinese Journal of Catalysis, 2015, 36, 1910-1919. | 14.0 | 55 |
| 62 | Dual template-directed synthesis of SAPO-34 nanosheet assemblies with improved stability in the methanol to olefins reaction. Journal of Materials Chemistry A, 2015, 3, 5608-5616. | 10.3 | 160 |
| 63 | N-methyldiethanolamine: A multifunctional structure-directing agent for the synthesis of SAPO and AlPO molecular sieves. Journal of Colloid and Interface Science, 2015, 445, 119-126. | 9.4 | 16 |
| 64 | Investigation of the Strong BrÃ,nsted Acidity in a Novel SAPO-type Molecular Sieve, DNL-6. Journal of Physical Chemistry C, 2015, 119, 2589-2596. | 3.1 | 14 |
| 65 | Methanol to Olefins (MTO): From Fundamentals to Commercialization. ACS Catalysis, 2015, 5, 1922-1938. | 11.2 | 1,268 |
| 66 | Synthesis of hierarchical beta zeolite by using a bifunctional cationic polymer and the improved catalytic performance. RSC Advances, 2015, 5, 9852-9860. | 3.6 | 27 |
| 67 | In situ growth and assembly of microporous aluminophosphate nanosheets into ordered architectures at low temperature and their enhanced catalytic performance. Journal of Materials Chemistry A, 2015, 3, 7741-7749. | 10.3 | 33 |
| 68 | Cationic surfactant-assisted hydrothermal synthesis: an effective way to tune the crystalline phase and morphology of SAPO molecular sieves. CrystEngComm, 2015, 17, 8555-8561. | 2.6 | 11 |
| 69 | Cavity Controls the Selectivity: Insights of Confinement Effects on MTO Reaction. ACS Catalysis, 2015, 5, 661-665. | 11.2 | 131 |
| 70 | A top-down approach to prepare silicoaluminophosphate molecular sieve nanocrystals with improved catalytic activity. Chemical Communications, 2014, 50, 1845. | 4.1 | 101 |
| 71 | Heptamethylbenzenium cation formation and the correlated reaction pathway during methanol-to-olefins conversion over DNL-6. Catalysis Today, 2014, 226, 47-51. | 4.4 | 16 |
| 72 | Synthesis of SAPO-34 with alkanolamines as novel templates and their application for CO2 separation. Microporous and Mesoporous Materials, 2014, 194, 8-14. | 4.4 | 33 |

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| 73 | Seed-assisted synthesis of high silica ZSM-35 through interface-induced growth over MCM-49 seeds. Microporous and Mesoporous Materials, 2014, 196, 89-96. | 4.4 | 27 |
| 74 | Synthesis of SAPO-35 molecular sieve and its catalytic properties in the methanol-to-olefins reaction. Chinese Journal of Catalysis, 2013, 34, 798-807. | 14.0 | 14 |
| 75 | Aminothermal synthesis of CHA-type SAPO molecular sieves and their catalytic performance in methanol to olefins (MTO) reaction. Journal of Materials Chemistry A, 2013, 1, 14206. | 10.3 | 49 |
| 76 | Synthesis of DNLâ \in 6 with a High Concentration of Siâ \in % (4â \in %Al) Environments and its Application in CO ₂ Separation. ChemSusChem, 2013, 6, 911-918. | 6.8 | 36 |
| 77 | Study of crystallization process of SAPO-11 molecular sieve. Chinese Journal of Catalysis, 2013, 34, 593-603. | 14.0 | 25 |
| 78 | Investigation of the Crystallization Process of SAPO-35 and Si Distribution in the Crystals. Journal of Physical Chemistry C, 2013, 117, 4048-4056. | 3.1 | 31 |
| 79 | Synthesis and Growth Mechanism of the Core-Shell SAPO-34/AlPO-18 Molecular Sieves. Chinese Journal of Catalysis, 2013, 33, 1724-1729. | 14.0 | 2 |
| 80 | A novel solvothermal approach to synthesize SAPO molecular sieves using organic amines as the solvent and template. Journal of Materials Chemistry, 2012, 22, 6568. | 6.7 | 72 |
| 81 | Observation of Heptamethylbenzenium Cation over SAPO-Type Molecular Sieve DNL-6 under Real MTO Conversion Conditions. Journal of the American Chemical Society, 2012, 134, 836-839. | 13.7 | 173 |
| 82 | An effective route to improve the catalytic performance of SAPO-34 in the methanol-to-olefin reaction. Journal of Natural Gas Chemistry, 2012, 21, 431-434. | 1.8 | 24 |
| 83 | Synthesis of SAPO-34 Molecular Sieves Templated with Diethylamine and Their Properties Compared with Other Templates. Chinese Journal of Catalysis, 2012, 33, 174-182. | 14.0 | 56 |
| 84 | A study of the acidity of SAPO-34 by solid-state NMR spectroscopy. Microporous and Mesoporous Materials, 2012, 158, 19-25. | 4.4 | 87 |
| 85 | Phase-Transformation Synthesis of SAPO-34 and a Novel SAPO Molecular Sieve with RHO Framework Type from a SAPO-5 Precursor. Chemistry of Materials, 2011, 23, 1406-1413. | 6.7 | 54 |
| 86 | Conversion of methanol over H-ZSM-22: The reaction mechanism and deactivation. Catalysis Today, 2011, 164, 288-292. | 4.4 | 54 |
| 87 | Comparative study of MTO conversion over SAPO-34, H-ZSM-5 and H-ZSM-22: Correlating catalytic performance and reaction mechanism to zeolite topology. Catalysis Today, 2011, 171, 221-228. | 4.4 | 179 |
| 88 | Synthesis and characterization of DNL-6, a new silicoaluminophosphate molecular sieve with the RHO framework. Microporous and Mesoporous Materials, 2011, 144, 113-119. | 4.4 | 29 |
| 89 | Synthesis of SAPO-34 templated by diethylamine: Crystallization process and Si distribution in the crystals. Microporous and Mesoporous Materials, 2008, 114, 416-423. | 4.4 | 122 |
| 90 | Synthesis, characterization and catalytic properties of SAPO-34 synthesized using diethylamine as a template. Microporous and Mesoporous Materials, 2008, 111, 143-149. | 4.4 | 184 |

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| 91 | Inorganic phosphate crystal Na15â^'n[Al(PO4)2F2]3â^'n[Ti(PO4)2F2]n (0≤<1): A novel cation exchanger with high exchange selectivity for Li+ and Pb2+ ions. Materials Research Bulletin, 2008, 43, 3382-3388. | 5.2 | 0 |
| 92 | Structure and electrical conductivity of a novel inorganic solid electrolyte: Na14.5[Al(PO4)2F2]2.5[Ti(PO4)2F2]0.5 (NATP). Solid State Communications, 2007, 141, 407-411. | 1.9 | 2 |
| 93 | Synthesis of ZSM-34 and Its Catalytic Properties in Methanol-to-Olefins Reaction. Chinese Journal of Catalysis, 2007, 28, 817-822. | 14.0 | 17 |
| 94 | Template-assisted syntheses of porous metal methylphosphonates. Journal of Porous Materials, 2006, 13, 73-80. | 2.6 | 5 |
| 95 | Synthesis of small crystals zeolite NaY. Materials Letters, 2006, 60, 1131-1133. | 2.6 | 70 |
| 96 | Two CrIII containing metal-1-hydroxyethylidenediphosphonate compounds: Synthesis, structure, and morphology. Crystal Research and Technology, 2006, 41, 1049-1054. | 1.3 | 4 |
| 97 | Template-assisted syntheses of two novel porous zirconium methylphosphonates. Microporous and Mesoporous Materials, 2005, 81, 175-183. | 4.4 | 11 |
| 98 | Preparation of ordered carbon/silica hybrid mesoporous materials with specific pore size expansion. Microporous and Mesoporous Materials, 2005, 79, 269-273. | 4.4 | 22 |
| 99 | Syntheses and structures of sodium aluminodiphosphonates with different morphologies (diphosphonate=1-hydroxyethylidenediphosphonate). Journal of Crystal Growth, 2004, 264, 400-408. | 1.5 | 3 |
| 100 | Characterization of metal-containing molecular sieves and their catalytic properties in the selective oxidation of cyclohexane. Catalysis Today, 2004, 93-95, 735-742. | 4.4 | 57 |
| 101 | Preparation of Ru metal nanoparticles in mesoporous materials: influence of sulfur on the hydrogenating activity. Microporous and Mesoporous Materials, 2003, 60, 197-206. | 4.4 | 31 |
| 102 | Synthesis and spectroscopic study of mesoporous aluminum methylphosphonate foam templated by dibutyl methylphosphonate. Microporous and Mesoporous Materials, 2003, 62, 61-71. | 4.4 | 5 |
| 103 | Ethylenediammonium disodium (1-hydroxyethylidene)diphosphonate tetrahydrate, [NH3(CH2)2NH3]Na2(hedp)·4H2O. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, m521-m523. | 0.2 | 1 |
| 104 | Construction of Singleâ€Crystalline Hierarchical ZSMâ€5 with Open Nanoarchitectures via Anisotropicâ€Kinetics Transformation for the Methanolâ€toâ€Hydrocarbons Reaction. Angewandte Chemie, 0, , . | 2.0 | 0 |
| 105 | Realizing Fast Synthesis of Highâ€Silica Zeolite Y with Remarkable Catalytic Performance. Angewandte Chemie, 0, , . | 2.0 | O |