# Jong-San Chang

List of Publications by Year
in descending order

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| | | 76294 | 48277 |
|---|---|---|---|
| 85 | 8,406 | 40 | 88 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 96 | 96 | 96 | 8378 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Separation of ethane/ethylene gas mixture by ethane-selective CAU-3-NDCA adsorbent. Microporous and Mesoporous Materials, 2022, 330, 111572. | 2.2 | 9 |
| 2 | CCIQS-1: A Dynamic Metalâ€“Organic Framework with Selective Guest-Triggered Porosity Switching. Chemistry of Materials, 2022, 34, 669-677. | 3.2 | 6 |
| 3 | Hydrothermal Green Synthesis of a Robust Al Metal-Organic-Framework Effective for Water Adsorption Heat Allocations. ACS Sustainable Chemistry and Engineering, 2022, 10, 7010-7019. | 3.2 | 9 |
| 4 | Washable and Reusable Zr-Metalâ€“Organic Framework Nanostructure/Polyacrylonitrile Fibrous Mats for Catalytic Degradation of Real Chemical Warfare Agents. ACS Applied Nano Materials, 2022, 5, 9657-9665. | 2.4 | 4 |
| 5 | Water adsorption fingerprinting of structural defects/capping functions in Zrâ€“fumarate MOFs: a hybrid computational-experimental approach. Dalton Transactions, 2021, 50, 1324-1333. | 1.6 | 10 |
| 6 | Defective Zr-Fumarate MOFs Enable High-Efficiency Adsorption Heat Allocations. ACS Applied Materials & Interfaces, 2021, 13, 1723-1734. | 4.0 | 29 |
| 7 | A Fluorinated <scp>Metal</scp>â€<scp>Organic</scp> Framework, <scp>FMOF</scp>â€2, for Preferential Adsorption of Ethane over Ethylene. Bulletin of the Korean Chemical Society, 2021, 42, 286-289. | 1.0 | 13 |
| 8 | Crystals springing into action: metalâ€“organic framework CUK-1 as a pressure-driven molecular spring. Chemical Science, 2021, 12, 5682-5687. | 3.7 | 21 |
| 9 | Catalytic Performance of Zrâ€Based Metalâ€“Organic Frameworks Zrâ€abtc and MIPâ€200 in Selective Oxidations with H<sub>2</sub>O<sub>2</sub>. Chemistry - A European Journal, 2021, 27, 6985-6992. | 1.7 | 20 |
| 10 | Low-Valent Metal Ions as MOF Pillars: A New Route Toward Stable and Multifunctional MOFs. Journal of the American Chemical Society, 2021, 143, 13710-13720. | 6.6 | 43 |
| 11 | Rational design of a robust aluminum metal-organic framework for multi-purpose water-sorption-driven heat allocations. Nature Communications, 2020, 11, 5112. | 5.8 | 68 |
| 12 | Catalytic Transfer Hydrogenation of Furfural to Furfuryl Alcohol under Mild Conditions over Zr-MOFs: Exploring the Role of Metal Node Coordination and Modification. ACS Catalysis, 2020, 10, 3720-3732. | 5.5 | 187 |
| 13 | Microporous 3D Graphene-like Zeolite-Templated Carbons for Preferential Adsorption of Ethane. ACS Applied Materials & Interfaces, 2020, 12, 28484-28495. | 4.0 | 25 |
| 14 | C<sub>2</sub>/C<sub>3</sub> Hydrocarbon Separation by Pressure Swing Adsorption on MIL-100(Fe). Industrial & Engineering Chemistry Research, 2020, 59, 10568-10582. | 1.8 | 15 |
| 15 | Unique design of superior metal-organic framework for removal of toxic chemicals in humid environment via direct functionalization of the metal nodes. Journal of Hazardous Materials, 2020, 398, 122857. | 6.5 | 28 |
| 16 | Porous Metalâ€“Organic Framework CUK-1 for Adsorption Heat Allocation toward Green Applications of Natural Refrigerant Water. ACS Applied Materials & Interfaces, 2019, 11, 25778-25789. | 4.0 | 45 |
| 17 | Unraveling the Water Adsorption Mechanism in the Mesoporous MIL-100(Fe) Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2019, 123, 23014-23025. | 1.5 | 51 |
| 18 | Protons Make Possible Heterolytic Activation of Hydrogen Peroxide over Zr-Based Metalâ€“Organic Frameworks. ACS Catalysis, 2019, 9, 9699-9704. | 5.5 | 41 |

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|---|---|---|---|
| 19 | Molecular Encapsulation of Trimeric Chromium Carboxylate Clusters in Metalâ€“Organic Frameworks and Propylene Sorption. Chemistry - A European Journal, 2019, 25, 12889-12894. | 1.7 | 8 |
| 20 | Investigating the effect of alumina shaping on the sorption properties of promising metalâ€“organic frameworks. RSC Advances, 2019, 9, 7128-7135. | 1.7 | 14 |
| 21 | Towards polymer grade ethylene production with Cu-BTC: gas-phase SMB versus PSA. Adsorption, 2018, 24, 203-219. | 1.4 | 14 |
| 22 | Novel amine-functionalized iron trimesates with enhanced peroxidase-like activity and their applications for the fluorescent assay of choline and acetylcholine. Biosensors and Bioelectronics, 2018, 100, 161-168. | 5.3 | 93 |
| 23 | A robust large-pore zirconium carboxylate metalâ€“organic framework for energy-efficient water-sorption-driven refrigeration. Nature Energy, 2018, 3, 985-993. | 19.8 | 217 |
| 24 | Organoarsine Metalâ€“Organic Framework with cis-Diarsine Pockets for the Installation of Uniquely Confined Metal Complexes. Journal of the American Chemical Society, 2018, 140, 9806-9809. | 6.6 | 29 |
| 25 | A Metalâ€“Organic Framework with Cooperative Phosphines That Permit Postâ€Synthetic Installation of Open Metal Sites. Angewandte Chemie, 2018, 130, 9439-9443. | 1.6 | 13 |
| 26 | A Metalâ€“Organic Framework with Cooperative Phosphines That Permit Postâ€Synthetic Installation of Open Metal Sites. Angewandte Chemie - International Edition, 2018, 57, 9295-9299. | 7.2 | 52 |
| 27 | Synthesis Optimization, Shaping, and Heat Reallocation Evaluation of the Hydrophilic Metalâ€“Organic Framework MILâ€160(Al). ChemSusChem, 2017, 10, 1419-1426. | 3.6 | 122 |
| 28 | Screening the Effect of Water Vapour on Gas Adsorption Performance: Application to CO<sub>2</sub> Capture from Flue Gas in Metalâ€“Organic Frameworks. ChemSusChem, 2017, 10, 1543-1553. | 3.6 | 89 |
| 29 | Highly selective adsorption of p-xylene over other C<sub>8</sub> aromatic hydrocarbons by Co-CUK-1: a combined experimental and theoretical assessment. Dalton Transactions, 2017, 46, 16096-16101. | 1.6 | 20 |
| 30 | Shaping of porous metalâ€“organic framework granules using mesoporous Ï•alumina as a binder. RSC Advances, 2017, 7, 55767-55777. | 1.7 | 81 |
| 31 | Freestanding fiber mats of zeolitic imidazolate framework 7 via oneâ€step, scalable electrospinning. Journal of Applied Polymer Science, 2016, 133, . | 1.3 | 19 |
| 32 | Adsorption Properties of MFM-400 and MFM-401 with CO<sub>2</sub> and Hydrocarbons: Selectivity Derived from Directed Supramolecular Interactions. Inorganic Chemistry, 2016, 55, 7219-7228. | 1.9 | 41 |
| 33 | Observing the Effects of Shaping on Gas Adsorption in Metalâ€Organic Frameworks. European Journal of Inorganic Chemistry, 2016, 2016, 4416-4423. | 1.0 | 40 |
| 34 | Enhanced adsorptive desulfurization with flexible metalâ€“organic frameworks in the presence of diethyl ether and water. Chemical Communications, 2016, 52, 8667-8670. | 2.2 | 32 |
| 35 | Catalytic transfer hydrogenation of ethyl levulinate to Î³-valerolactone over zirconium-based metalâ€“organic frameworks. Green Chemistry, 2016, 18, 4542-4552. | 4.6 | 197 |
| 36 | Decoration of the internal structure of mesoporous chromium terephthalate MIL-101 with NiO using atomic layer deposition. Microporous and Mesoporous Materials, 2016, 221, 101-107. | 2.2 | 20 |

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|---|---|---|---|
| 37 | Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. Advanced Materials, 2015, 27, 4775-4780. | 11.1 | 253 |
| 38 | Preparation and characterization of carbon-encapsulated iron nanoparticles and their catalytic activity in the hydrogenation of levulinic acid. Journal of Materials Science, 2015, 50, 334-343. | 1.7 | 23 |
| 39 | The Structure of the Aluminum Fumarate Metalâ€“Organic Framework A520. Angewandte Chemie - International Edition, 2015, 54, 3664-3668. | 7.2 | 206 |
| 40 | Separation of pâ€Divinylbenzene by Selective Roomâ€Temperature Adsorption Inside Mgâ€CUKâ€1 Prepared by Aqueous Microwave Synthesis. Angewandte Chemie - International Edition, 2015, 54, 5394-5398. | 7.2 | 53 |
| 41 | Ethane/ethylene separation on a copper benzene-1,3,5-tricarboxylate MOF. Separation and Purification Technology, 2015, 149, 445-456. | 3.9 | 72 |
| 42 | Syngas Purification by Porous Amino-Functionalized Titanium Terephthalate MIL-125. Energy & Fuels, 2015, 29, 4654-4664. | 2.5 | 48 |
| 43 | Size and morphological control of a metalâ€“organic framework Cu-BTC by variation of solvent and modulator. Journal of Porous Materials, 2015, 22, 171-178. | 1.3 | 17 |
| 44 | Metal Organic Framework: Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation (Adv. Mater. 32/2015). Advanced Materials, 2015, 27, 4803-4803. | 11.1 | 10 |
| 45 | Highly Selective H<sub>2</sub>O<sub>2</sub>â€Based Oxidation of Alkylphenols to pâ€Benzoquinones Over MILâ€125 Metalâ€“Organic Frameworks. European Journal of Inorganic Chemistry, 2014, 2014, 132-139. | 1.0 | 50 |
| 46 | In Situ Energy-Dispersive X-ray Diffraction for the Synthesis Optimization and Scale-up of the Porous Zirconium Terephthalate UiO-66. Inorganic Chemistry, 2014, 53, 2491-2500. | 1.9 | 157 |
| 47 | Plasma-Enhanced Methane Direct Conversion over Particle-Size Adjusted MOx/Al2O3 (MÂ=ÂTi and Mg) Catalysts. Plasma Chemistry and Plasma Processing, 2014, 34, 1317-1330. | 1.1 | 44 |
| 48 | Propylene/Nitrogen Separation in a By-Stream of the Polypropylene Production: From Pilot Test and Model Validation to Industrial Scale Process Design and Optimization. Industrial & Engineering Chemistry Research, 2014, 53, 9199-9213. | 1.8 | 10 |
| 49 | Chemical conversion of biomass-derived hexose sugars to levulinic acid over sulfonic acid-functionalized graphene oxide catalysts. Green Chemistry, 2013, 15, 2935. | 4.6 | 195 |
| 50 | Pressure swing adsorption process for the separation of nitrogen and propylene with a MOF adsorbent MIL-100(Fe). Separation and Purification Technology, 2013, 110, 101-111. | 3.9 | 39 |
| 51 | Liquid Phase Oxidation of Organic Compounds by Metal-Organic Frameworks. , 2013, , 371-409. | | 8 |
| 52 | Green Microwave Synthesis of MILâ€100(Al, Cr, Fe) Nanoparticles for Thinâ€Film Elaboration. European Journal of Inorganic Chemistry, 2012, 2012, 5165-5174. | 1.0 | 176 |
| 53 | How Water Fosters a Remarkable 5-Fold Increase in Low-Pressure CO<sub>2</sub> Uptake within Mesoporous MIL-100(Fe). Journal of the American Chemical Society, 2012, 134, 10174-10181. | 6.6 | 198 |
| 54 | Propylene/propane separation by vacuum swing adsorption using Cu-BTC spheres. Separation and Purification Technology, 2012, 90, 109-119. | 3.9 | 85 |

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| 55 | Large scale fluorine-free synthesis of hierarchically porous iron(III) trimesate MIL-100(Fe) with a zeolite MTN topology. Microporous and Mesoporous Materials, 2012, 157, 137-145. | 2.2 | 305 |
| 56 | Energyâ€Efficient Dehumidification over Hierachically Porous Metalâ€“Organic Frameworks as Advanced Water Adsorbents. Advanced Materials, 2012, 24, 806-810. | 11.1 | 298 |
| 57 | Porous Materials: Energy-Efficient Dehumidification over Hierachically Porous Metal-Organic Frameworks as Advanced Water Adsorbents (Adv. Mater. 6/2012). Advanced Materials, 2012, 24, 710-710. | 11.1 | 7 |
| 58 | A coordination polymer of (Ph3P)AuCl prepared by post-synthetic modification and its application in 1-hexene/n-hexane separation. Chemical Communications, 2011, 47, 11855. | 2.2 | 84 |
| 59 | Stable polyoxometalate insertion within the mesoporous metal organic framework MIL-100(Fe). Journal of Materials Chemistry, 2011, 21, 1226-1233. | 6.7 | 251 |
| 60 | A Composite Formation Route to Wellâ€Crystalline Manganese Oxide Nanocrystals: High Catalytic Activity of Manganateâ€“Alumina Nanocomposites. Advanced Functional Materials, 2011, 21, 2301-2310. | 7.8 | 14 |
| 61 | Innentitelbild: Controlled Reducibility of a Metal-Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption (Angew. Chem. 34/2010). Angewandte Chemie, 2010, 122, 5940-5940. | 1.6 | 4 |
| 62 | Controlled Reducibility of a Metalâ€“Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. Angewandte Chemie - International Edition, 2010, 49, 5949-5952. | 7.2 | 526 |
| 63 | Inside Cover: Controlled Reducibility of a Metalâ€“Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption (Angew. Chem. Int. Ed. 34/2010). Angewandte Chemie - International Edition, 2010, 49, 5804-5804. | 7.2 | 10 |
| 64 | Trimerization of Isobutene Over Solid Acid Catalysts. Catalysis Surveys From Asia, 2009, 13, 229-236. | 1.0 | 28 |
| 65 | Oligomerization of isobutene over aluminum chloride-loaded USY zeolite catalysts. Journal of Porous Materials, 2009, 16, 631-634. | 1.3 | 17 |
| 66 | Effect of Mg in Alumina-Supported Sbâ€“Vâ€“O Catalysts for the Ammoxidation of Propane into Acrylonitrile. Catalysis Letters, 2008, 125, 192-196. | 1.4 | 6 |
| 67 | Amine Grafting on Coordinatively Unsaturated Metal Centers of MOFs: Consequences for Catalysis and Metal Encapsulation. Angewandte Chemie - International Edition, 2008, 47, 4144-4148. | 7.2 | 1,111 |
| 68 | Cover Picture: Amine Grafting on Coordinatively Unsaturated Metal Centers of MOFs: Consequences for Catalysis and Metal Encapsulation (Angew. Chem. Int. Ed. 22/2008). Angewandte Chemie - International Edition, 2008, 47, 4029-4029. | 7.2 | 0 |
| 69 | Three-Dimensional Cage Type Mesoporous CN-Based Hybrid Material with Very High Surface Area and Pore Volume. Chemistry of Materials, 2007, 19, 4367-4372. | 3.2 | 127 |
| 70 | Porous Cobalt(II)â€“Organic Frameworks with Corrugated Walls: Structurally Robust Gas-Sorption Materials. Angewandte Chemie - International Edition, 2007, 46, 272-275. | 7.2 | 194 |
| 71 | Synthesis and catalytic properties of MIL-100(Fe), an iron(iii) carboxylate with large pores. Chemical Communications, 2007, , 2820-2822. | 2.2 | 1,218 |
| 72 | Microwave synthesis, characterization and catalytic properties of titanium-incorporated ZSM-5 zeolite. Research on Chemical Intermediates, 2007, 33, 501-512. | 1.3 | 14 |

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|---|---|---|---|
| 73 | An Overview on the Dehydrogenation of Alkylbenzenes with Carbon Dioxide over Supported Vanadiumâ€“Antimony Oxide Catalysts. Catalysis Surveys From Asia, 2007, 11, 59-69. | 1.0 | 27 |
| 74 | Selective formation of styrene via oxidative dehydrogenation of 4-vinylcyclohexene over ZrO2-Supported iron oxide catalysts. Studies in Surface Science and Catalysis, 2004, 153, 347-350. | 1.5 | 5 |
| 75 | Nanoporous Metal-Containing Nickel Phosphates: A Class of Shape-Selective Catalyst. Angewandte Chemie - International Edition, 2004, 43, 2819-2822. | 7.2 | 47 |
| 76 | Template-Free Synthesis of the Nanoporous Nickel Phosphate VSB-5 under Microwave Irradiation. Chemistry of Materials, 2004, 16, 1394-1396. | 3.2 | 43 |
| 77 | Crystal morphology control of AFI type molecular sieves with microwave irradiation. Journal of Materials Chemistry, 2004, 14, 280. | 6.7 | 107 |
| 78 | Oxidative dehydrogenation of ethane with carbon dioxide over supported chromium oxide catalysts. Studies in Surface Science and Catalysis, 2004, 153, 339-342. | 1.5 | 8 |
| 79 | Preparation and application of nanocatalysts via surface functionalization of mesoporous materials. Research on Chemical Intermediates, 2003, 29, 921-938. | 1.3 | 27 |
| 80 | Utilization of carbon dioxide as soft oxidant in the dehydrogenation of ethylbenzene over supported vanadiumâ€“antimony oxide catalysts. Green Chemistry, 2003, 5, 587-590. | 4.6 | 77 |
| 81 | CO2 reforming of methane over modified Ni/ZrO2 catalysts. Applied Organometallic Chemistry, 2001, 15, 109-112. | 1.7 | 40 |
| 82 | CO2 utilization for the formation of styrene from ethylbenzene over zirconia-supported iron oxide catalysts. Applied Organometallic Chemistry, 2000, 14, 815-818. | 1.7 | 29 |
| 83 | Title is missing!. Catalysis Letters, 2000, 69, 93-101. | 1.4 | 14 |
| 84 | Granulation and Shaping of Metal-Organic Frameworks. , 0, , 551-572. | | 5 |
| 85 | Nanoporous 3D Graphene-like Zeolite-Templated Carbon for High-Affinity Separation of Xenon from Krypton. ACS Applied Nano Materials, 0, , . | 2.4 | 6 |