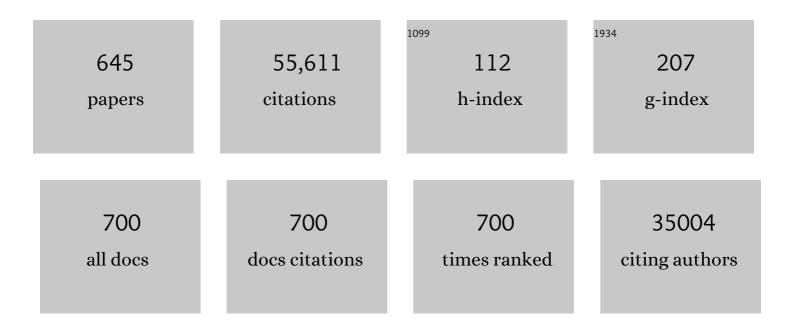
List of Publications by Year in descending order

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| 1 | Evolution of nitrogen functionalities in carbonaceous materials during pyrolysis. Carbon, 1995, 33, 1641-1653. | 10.3 | 1,815 |
| 2 | Metal–organic framework nanosheets in polymer composite materials for gas separation. Nature Materials, 2015, 14, 48-55. | 27.5 | 1,780 |
| 3 | Cobalt Particle Size Effects in the Fischerâ^'Tropsch Reaction Studied with Carbon Nanofiber Supported Catalysts. Journal of the American Chemical Society, 2006, 128, 3956-3964. | 13.7 | 1,318 |
| 4 | Challenges in the Greener Production of Formates/Formic Acid, Methanol, and DME by Heterogeneously Catalyzed CO ₂ Hydrogenation Processes. Chemical Reviews, 2017, 117, 9804-9838. | 47.7 | 1,058 |
| 5 | An Amine-Functionalized MIL-53 Metalâ~Organic Framework with Large Separation Power for CO ₂ and CH ₄ . Journal of the American Chemical Society, 2009, 131, 6326-6327. | 13.7 | 926 |
| 6 | Metal–organic and covalent organic frameworks as single-site catalysts. Chemical Society Reviews, 2017, 46, 3134-3184. | 38.1 | 861 |
| 7 | Metal Organic Framework Catalysis: <i>Quo vadis</i> ?. ACS Catalysis, 2014, 4, 361-378. | 11.2 | 859 |
| 8 | Heterogeneous catalytic decomposition of nitrous oxide. Applied Catalysis B: Environmental, 1996, 9, 25-64. | 20.2 | 834 |
| 9 | Metal–organic framework based mixed matrix membranes: a solution for highly efficient CO ₂ capture?. Chemical Society Reviews, 2015, 44, 2421-2454. | 38.1 | 732 |
| 10 | Catalyst deactivation: is it predictable?. Applied Catalysis A: General, 2001, 212, 3-16. | 4.3 | 668 |
| 11 | Activity and selectivity of pure manganese oxides in the selective catalytic reduction of nitric oxide with ammonia. Applied Catalysis B: Environmental, 1994, 3, 173-189. | 20.2 | 662 |
| 12 | Ethane/Ethene Separation Turned on Its Head: Selective Ethane Adsorption on the Metalâ^'Organic Framework ZIF-7 through a Gate-Opening Mechanism. Journal of the American Chemical Society, 2010, 132, 17704-17706. | 13.7 | 650 |
| 13 | Direct Demonstration of Enhanced Diffusion in Mesoporous ZSM-5 Zeolite Obtained via Controlled Desilication. Journal of the American Chemical Society, 2007, 129, 355-360. | 13.7 | 616 |
| 14 | Amino-based metal-organic frameworks as stable, highly active basic catalysts. Journal of Catalysis, 2009, 261, 75-87. | 6.2 | 600 |
| 15 | Multiphase monolith reactors: Chemical reaction engineering of segmented flow in microchannels. Chemical Engineering Science, 2005, 60, 5895-5916. | 3.8 | 540 |
| 16 | Formation and control of N2O in nitric acid production. Applied Catalysis B: Environmental, 2003, 44, 117-151. | 20.2 | 509 |
| 17 | Synthesis and Characterization of an Amino Functionalized MIL-101(Al): Separation and Catalytic Properties. Chemistry of Materials, 2011, 23, 2565-2572. | 6.7 | 479 |
| 18 | Preparation of monolithic catalysts. Catalysis Reviews - Science and Engineering, 2001, 43, 345-380. | 12.9 | 474 |

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| 19 | Recent developments in zeolite membranes for gas separation. Journal of Membrane Science, 2016, 499, 65-79. | 8.2 | 435 |
| 20 | Metal organic framework based mixed matrix membranes: An increasingly important field of research with a large application potential. Microporous and Mesoporous Materials, 2013, 166, 67-78. | 4.4 | 434 |
| 21 | Metal–organic frameworks as heterogeneous photocatalysts: advantages and challenges. CrystEngComm, 2014, 16, 4919-4926. | 2.6 | 413 |
| 22 | Zeolite based films, membranes and membrane reactors: Progress and prospects. Microporous and Mesoporous Materials, 2006, 90, 198-220. | 4.4 | 410 |
| 23 | Adsorption-Driven Heat Pumps: The Potential of Metal–Organic Frameworks. Chemical Reviews, 2015, 115, 12205-12250. | 47.7 | 410 |
| 24 | Electrochemical Synthesis of Some Archetypical Zn ²⁺ , Cu ²⁺ , and Al ³⁺ Metal Organic Frameworks. Crystal Growth and Design, 2012, 12, 3489-3498. | 3.0 | 406 |
| 25 | Alumina-Supported Manganese Oxide Catalysts. Journal of Catalysis, 1994, 150, 94-104. | 6.2 | 403 |
| 26 | Inertial and interfacial effects on pressure drop of Taylor flow in capillaries. AICHE Journal, 2005, 51, 2428-2440. | 3.6 | 365 |
| 27 | Co@NH ₂ -MIL-125(Ti): cobaloxime-derived metal–organic framework-based composite for light-driven H ₂ production. Energy and Environmental Science, 2015, 8, 364-375. | 30.8 | 362 |
| 28 | The development of nitrogen functionality in model chars during gasification in CO2 and O2. Carbon, 1999, 37, 1143-1150. | 10.3 | 352 |
| 29 | Metal–organic frameworks as scaffolds for the encapsulation of active species: state of the art and future perspectives. Journal of Materials Chemistry, 2012, 22, 10102. | 6.7 | 352 |
| 30 | Electronic Metal–Support Interactions in Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2014, 53, 3418-3421. | 13.8 | 347 |
| 31 | Functionalized flexible MOFs as fillers in mixed matrix membranes for highly selective separation of CO2 from CH4 at elevated pressures. Chemical Communications, 2011, 47, 9522. | 4.1 | 340 |
| 32 | Practical Approach to Zeolitic Membranes and Coatings: State of the Art, Opportunities, Barriers, and Future Perspectives. Chemistry of Materials, 2012, 24, 2829-2844. | 6.7 | 332 |
| 33 | Metal organic framework-mediated synthesis of highly active and stable Fischer-Tropsch catalysts. Nature Communications, 2015, 6, 6451. | 12.8 | 325 |
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| 35 | Building MOF bottles around phosphotungstic acid ships: One-pot synthesis of bi-functional polyoxometalate-MIL-101 catalysts. Journal of Catalysis, 2010, 269, 229-241. | 6.2 | 311 |
| 36 | Water and Metal–Organic Frameworks: From Interaction toward Utilization. Chemical Reviews, 2020, 120, 8303-8377. | 47.7 | 303 |

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| 37 | Permeation characteristics of a metal-supported silicalite-1 zeolite membrane. Journal of Membrane Science, 1996, 117, 57-78. | 8.2 | 299 |
| 38 | Manufacture of dense coatings of Cu3(BTC)2 (HKUST-1) on α-alumina. Microporous and Mesoporous Materials, 2008, 113, 132-138. | 4.4 | 298 |
| 39 | Complexity behind CO ₂ Capture on NH ₂ -MIL-53(Al). Langmuir, 2011, 27, 3970-3976. | 3.5 | 274 |
| 40 | Understanding the Anomalous Alkane Selectivity of ZIFâ€7 in the Separation of Light Alkane/Alkene Mixtures. Chemistry - A European Journal, 2011, 17, 8832-8840. | 3.3 | 274 |
| 41 | Sulfation of metal–organic frameworks: Opportunities for acid catalysis and proton conductivity. Journal of Catalysis, 2011, 281, 177-187. | 6.2 | 269 |
| 42 | Temperature dependence of one-component permeation through a silicalite-1 membrane. AICHE Journal, 1997, 43, 2203-2214. | 3.6 | 267 |
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| 44 | Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. Advanced Materials, 2015, 27, 4775-4780. | 21.0 | 253 |
| 45 | Metalâ€Organic Framework Membranes—High Potential, Bright Future?. Angewandte Chemie - International Edition, 2010, 49, 1530-1532. | 13.8 | 252 |
| 46 | Metal organic frameworks as precursors for the manufacture of advanced catalytic materials. Materials Chemistry Frontiers, 2017, 1, 1709-1745. | 5.9 | 252 |
| 47 | Isoreticular MOFs as Efficient Photocatalysts with Tunable Band Gap: An Operando FTIR Study of the Photoinduced Oxidation of Propylene. ChemSusChem, 2008, 1, 981-983. | 6.8 | 246 |
| 48 | Separation and permeation characteristics of a DD3R zeolite membrane. Journal of Membrane Science, 2008, 316, 35-45. | 8.2 | 244 |
| 49 | Multi-scale crystal engineering of metal organic frameworks. Coordination Chemistry Reviews, 2016, 307, 147-187. | 18.8 | 239 |
| 50 | Kinetic Analysis of the Decomposition of Nitrous Oxide over ZSM-5 Catalysts. Journal of Catalysis, 1997, 167, 256-265. | 6.2 | 237 |
| 51 | Mass transfer characteristics of three-phase monolith reactors. Chemical Engineering Science, 2001, 56, 6015-6023. | 3.8 | 237 |
| 52 | Enhancing optical absorption of metal–organic frameworks for improved visible light photocatalysis. Chemical Communications, 2013, 49, 10575-10577. | 4.1 | 237 |
| 53 | Metal Organic Framework Crystals in Mixedâ€Matrix Membranes: Impact of the Filler Morphology on the Gas Separation Performance. Advanced Functional Materials, 2016, 26, 3154-3163. | 14.9 | 225 |
| 54 | Structure–performance descriptors and the role of Lewis acidity in the methanol-to-propylene process. Nature Chemistry, 2018, 10, 804-812. | 13.6 | 221 |

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| 56 | InÂsitu investigation of the thermal decomposition of Co–Al hydrotalcite in different atmospheres. Journal of Materials Chemistry, 2001, 11, 821-830. | 6.7 | 218 |
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| 58 | The generalized Maxwell–Stefan model for diffusion in zeolites:. Chemical Engineering Science, 2000, 55, 2923-2930. | 3.8 | 216 |
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| 60 | Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. Journal of Catalysis, 2002, 207, 113-126. | 6.2 | 197 |
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| 63 | The six-flow reactor technology A review on fast catalyst screening and kinetic studies. Catalysis Today, 2000, 60, 93-109. | 4.4 | 194 |
| 64 | Hierarchical H-ZSM-5-supported cobalt for the direct synthesis of gasoline-range hydrocarbons from syngas: Advantages, limitations, and mechanistic insight. Journal of Catalysis, 2013, 305, 179-190. | 6.2 | 192 |
| 65 | Modeling permeation of binary mixtures through zeolite membranes. AICHE Journal, 1999, 45, 497-511. | 3.6 | 188 |
| 66 | Kinetic Control of Metal–Organic Framework Crystallization Investigated by Timeâ€Resolved Inâ€Situ Xâ€Ray Scattering. Angewandte Chemie - International Edition, 2011, 50, 9624-9628. | 13.8 | 182 |
| 67 | Synergy of FexCe1â^'xO2 mixed oxides for N2O decomposition. Journal of Catalysis, 2006, 239, 340-346. | 6.2 | 177 |
| 68 | Tuning the catalytic performance of metal–organic frameworks in fine chemistry by active site engineering. Journal of Materials Chemistry, 2012, 22, 10313. | 6.7 | 176 |
| 69 | Elucidating the Nature of Fe Species during Pyrolysis of the Fe-BTC MOF into Highly Active and Stable Fischer–Tropsch Catalysts. ACS Catalysis, 2016, 6, 3236-3247. | 11.2 | 176 |
| 70 | Steam-activated FeMFI zeolites. Evolution of iron species and activity in direct N2O decomposition. Journal of Catalysis, 2003, 214, 33-45. | 6.2 | 167 |
| 71 | New non-traditional multiphase catalytic reactors based on monolithic structures. Catalysis Today, 2001, 66, 133-144. | 4.4 | 166 |
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| 73 | TEOM:Â A Unique Technique for Measuring Adsorption Properties. Light Alkanes in Silicalite-1. Industrial & Engineering Chemistry Research, 1998, 37, 1934-1942. | 3.7 | 164 |
| 74 | Adsorption of Linear and Branched Alkanes in the Zeolite Silicalite-1. Journal of the American Chemical Society, 1998, 120, 5599-5600. | 13.7 | 163 |
| 75 | Zeolitic coatings and their potential use in catalysis. Microporous and Mesoporous Materials, 1998, 21, 213-226. | 4.4 | 162 |
| 76 | Azineâ€Linked Covalent Organic Framework (COF)â€Based Mixedâ€Matrix Membranes for CO ₂ /CH ₄ Separation. Chemistry - A European Journal, 2016, 22, 14467-14470. | 3.3 | 161 |
| 77 | Three-phase hydrogenation of ?-glucose over a carbon supported ruthenium catalyst—mass transfer and kinetics. Applied Catalysis A: General, 2003, 251, 1-17. | 4.3 | 160 |
| 78 | Structured Packings for Multiphase Catalytic Reactors. Industrial & Engineering Chemistry Research, 2008, 47, 3720-3751. | 3.7 | 160 |
| 79 | NO-Assisted N2O Decomposition over Fe-Based Catalysts: Effects of Gas-Phase Composition and Catalyst Constitution. Journal of Catalysis, 2002, 208, 211-223. | 6.2 | 156 |
| 80 | Monolithic catalysts as efficient three-phase reactors. Chemical Engineering Science, 2001, 56, 823-829. | 3.8 | 155 |
| 81 | Effect of Operating Conditions and Membrane Quality on the Separation Performance of Composite Silicalite-1 Membranes. Industrial & Engineering Chemistry Research, 1998, 37, 4071-4083. | 3.7 | 152 |
| 82 | Catalysis engineering of bifunctional solids for the one-step synthesis of liquid fuels from syngas: a review. Catalysis Science and Technology, 2014, 4, 893-907. | 4.1 | 148 |
| 83 | Highly dispersed platinum in metal organic framework NH2-MIL-101(Al) containing phosphotungstic acid – Characterization and catalytic performance. Journal of Catalysis, 2012, 289, 42-52. | 6.2 | 147 |
| 84 | Influence of ZIF-8 particle size in the performance of polybenzimidazole mixed matrix membranes for pre-combustion CO2 capture and its validation through interlaboratory test. Journal of Membrane Science, 2016, 515, 45-53. | 8.2 | 145 |
| 85 | NH ₂ -MIL-53(Al): A High-Contrast Reversible Solid-State Nonlinear Optical Switch. Journal of the American Chemical Society, 2012, 134, 8314-8317. | 13.7 | 144 |
| 86 | Alumina-Supported Manganese Oxide Catalysts. Journal of Catalysis, 1994, 150, 105-116. | 6.2 | 143 |
| 87 | High flux high-silica SSZ-13 membrane for CO ₂ separation. Journal of Materials Chemistry A, 2014, 2, 13083-13092. | 10.3 | 142 |
| 88 | Towards acid MOFs – catalytic performance of sulfonic acid functionalized architectures. Catalysis Science and Technology, 2013, 3, 2311. | 4.1 | 141 |
| 89 | A new surface oxygen complex on carbon: toward a unified mechanism for carbon gasification reactions. Industrial & amp; Engineering Chemistry Research, 1993, 32, 2835-2840. | 3.7 | 137 |
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| 91 | Fischer–Tropsch synthesis with in situ H2O removal – Directions of membrane development. Microporous and Mesoporous Materials, 2008, 115, 123-136. | 4.4 | 133 |
| 92 | Soot oxidation catalyzed by a Cu/K/Mo/Cl catalyst: evaluation of the chemistry and performance of the catalyst. Applied Catalysis B: Environmental, 1995, 6, 339-352. | 20.2 | 131 |
| 93 | Active site structure sensitivity in N2O conversion over FeMFI zeolites. Journal of Catalysis, 2003, 218, 234-238. | 6.2 | 131 |
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| 96 | Manufacture of highly loaded silica-supported cobalt Fischer–Tropsch catalysts from a metal organic framework. Nature Communications, 2017, 8, 1680. | 12.8 | 128 |
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| 99 | The role of the active phase of Raney-type Ni catalysts in the selective hydrogenation of ?-glucose to ?-sorbitol. Applied Catalysis A: General, 2003, 253, 437-452. | 4.3 | 126 |
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| 101 | Mechanism of the potassium catalysed gasification of carbon in CO2. Fuel, 1984, 63, 1043-1047. | 6.4 | 125 |
| 102 | Carbon supported Ru catalysts as promising alternative for Raney-type Ni in the selective hydrogenation of d-glucose. Catalysis Today, 2003, 79-80, 35-41. | 4.4 | 125 |
| 103 | Mixed matrix membranes based on NH2-functionalized MIL-type MOFs: Influence of structural and operational parameters on the CO2/CH4 separation performance. Microporous and Mesoporous Materials, 2014, 192, 35-42. | 4.4 | 123 |
| 104 | Metal–Organic Frameworks in Adsorption-Driven Heat Pumps: The Potential of Alcohols as Working Fluids. Langmuir, 2015, 31, 12783-12796. | 3.5 | 123 |
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| 106 | Methodological and operational aspects of permeation measurements on silicalite-1 membranes. Journal of Membrane Science, 1998, 144, 87-104. | 8.2 | 121 |
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| 111 | Structuring catalyst and reactor – an inviting avenue to process intensification. Catalysis Science and Technology, 2015, 5, 807-817. | 4.1 | 117 |
| 112 | Nanosheets of Nonlayered Aluminum Metal–Organic Frameworks through a Surfactantâ€Assisted Method. Advanced Materials, 2018, 30, e1707234. | 21.0 | 117 |
| 113 | Shape Selectivity in Adsorption on the All-Silica DD3R. Langmuir, 2000, 16, 3322-3329. | 3.5 | 116 |
| 114 | Visualizing the Crystal Structure and Locating the Catalytic Activity of Micro―and Mesoporous ZSMâ€5 Zeolite Crystals by Using In Situ Optical and Fluorescence Microscopy. Chemistry - A European Journal, 2008, 14, 1718-1725. | 3.3 | 116 |
| 115 | Adsorption and Separation of Light Gases on an Aminoâ€Functionalized Metal–Organic Framework: An Adsorption and Inâ€Situ XRD Study. ChemSusChem, 2012, 5, 740-750. | 6.8 | 115 |
| 116 | Breaking the Fischer–Tropsch synthesis selectivity: direct conversion of syngas to gasoline over hierarchical Co/H-ZSM-5 catalysts. Catalysis Science and Technology, 2013, 3, 572-575. | 4.1 | 114 |
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| 118 | Mechanistic Insight into the Synthesis of Higher Alcohols from Syngas: The Role of K Promotion on MoS ₂ Catalysts. ACS Catalysis, 2013, 3, 1634-1637. | 11.2 | 113 |
| 119 | Stability of Oriented Silicalite-1 Films in View of Zeolite Membrane Preparation. Zeolites, 1997, 19, 13-20. | 0.5 | 112 |
| 120 | Weakly bound capping agents on gold nanoparticles in catalysis: Surface poison?. Journal of Catalysis, 2010, 271, 104-114. | 6.2 | 111 |
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| 123 | Utilizing full-exchange capacity of zeolites by alkaline leaching: Preparation of Fe-ZSM5 and application in N2O decomposition. Journal of Catalysis, 2006, 238, 250-259. | 6.2 | 108 |
| 124 | Fischer–Tropsch reaction–diffusion in a cobalt catalyst particle: aspects of activity and selectivity for a variable chain growth probability. Catalysis Science and Technology, 2012, 2, 1221. | 4.1 | 108 |
| 125 | Controlled formation of iron carbides and their performance in Fischer-Tropsch synthesis. Journal of Catalysis, 2018, 362, 106-117. | 6.2 | 108 |
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