

Stefan Wuttke

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

5,978
citations

43
h-index

75
g-index

131
ext. papers

7,454
ext. citations

11.6
avg, IF

6.21
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 113 | Toxicity of metal-organic framework nanoparticles: from essential analyses to potential applications.. <i>Chemical Society Reviews</i> , 2022 , | 58.5 | 17 |
| 112 | MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning.. <i>Angewandte Chemie - International Edition</i> , 2022 , | 16.4 | 7 |
| 111 | Metalloodrugs in cancer nanomedicine.. <i>Chemical Society Reviews</i> , 2022 , | 58.5 | 10 |
| 110 | Nanoscience versus Viruses: The SARS-CoV-2 Case. <i>Advanced Functional Materials</i> , 2022 , 32, 2107826 | 15.6 | 2 |
| 109 | Living Cell Nanoporation and Exosomal RNA Analysis Platform for Real-Time Assessment of Cellular Therapies. <i>Journal of the American Chemical Society</i> , 2022 , 144, 9443-9450 | 16.4 | 1 |
| 108 | Single Crystals Heterogeneity Impacts the Intrinsic and Extrinsic Properties of Metal-Organic Frameworks. <i>Advanced Materials</i> , 2021 , e2104530 | 24 | 2 |
| 107 | Printed Capacitive Sensors Based on Ionic Liquid/Metal-Organic Framework Composites for Volatile Organic Compounds Detection. <i>Advanced Functional Materials</i> , 2021 , 31, 2010703 | 15.6 | 4 |
| 106 | Identification of the Physicochemical Factors Involved in the Dye Separation via Methionine-Functionalized Mesoporous Carbons. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100013 | 5.9 | 1 |
| 105 | Ferromagnetic supramolecular metal-organic frameworks for active capture and magnetic sensing of emerging drug pollutants. <i>Cell Reports Physical Science</i> , 2021 , 2, 100421 | 6.1 | 3 |
| 104 | Ionic Liquids: Printed Capacitive Sensors Based on Ionic Liquid/Metal-Organic Framework Composites for Volatile Organic Compounds Detection (Adv. Funct. Mater. 25/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170182 | 15.6 | |
| 103 | Chitin/Metal-Organic Framework Composites as Wide-Range Adsorbent. <i>ChemSusChem</i> , 2021 , 14, 2892-2901 | 3.9 | 4 |
| 102 | MRI-Active Metal-Organic Frameworks: Concepts for the Translation from Lab to Clinic. <i>Advanced Therapeutics</i> , 2021 , 4, 2100067 | 4.9 | 0 |
| 101 | Der derzeitige Stand von MOF- und COF-Anwendungen. <i>Angewandte Chemie</i> , 2021 , 133, 24174 | 3.6 | 4 |
| 100 | 25 Jahre retikuläre Chemie. <i>Angewandte Chemie</i> , 2021 , 133, 24142 | 3.6 | 0 |
| 99 | Linker Exchange via Migration along the Backbone in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10541-10546 | 16.4 | 4 |
| 98 | Modular Assembly of Red Blood Cell Superstructures from Metal-Organic Framework Nanoparticle-Based Building Blocks. <i>Advanced Functional Materials</i> , 2021 , 31, 2005935 | 15.6 | 12 |
| 97 | Overcoming the paracetamol dose challenge with wrinkled mesoporous carbon spheres. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 673-682 | 9.3 | 7 |

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| 96 | Applications of reticular diversity in metal-organic frameworks: An ever-evolving state of the art. <i>Coordination Chemistry Reviews</i> , 2021 , 430, 213655 | 23.2 | 17 |
| 95 | Artificial Bioaugmentation of Biomacromolecules and Living Organisms for Biomedical Applications. <i>ACS Nano</i> , 2021 , 15, 3900-3926 | 16.7 | 6 |
| 94 | The Current Status of MOF and COF Applications. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23975-24001 | 16.4 | 75 |
| 93 | 25 Years of Reticular Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23946-23974 | 16.4 | 50 |
| 92 | From Molecules to Frameworks to Superframework Crystals. <i>Advanced Materials</i> , 2021 , 33, e2103808 | 24 | 1 |
| 91 | Pore Chemistry of Metal-Organic Frameworks. <i>Advanced Functional Materials</i> , 2020 , 30, 2000238 | 15.6 | 110 |
| 90 | Colloidal nanoparticles as pharmaceutical agents. <i>Frontiers of Nanoscience</i> , 2020 , 16, 89-115 | 0.7 | 1 |
| 89 | Metal-Organic Framework Nanoparticles Induce Pyroptosis in Cells Controlled by the Extracellular pH. <i>Advanced Materials</i> , 2020 , 32, e1907267 | 24 | 50 |
| 88 | Tuning the Morphological Appearance of Iron(III) Fumarate: Impact on Material Characteristics and Biocompatibility. <i>Chemistry of Materials</i> , 2020 , 32, 2253-2263 | 9.6 | 7 |
| 87 | Sol-Gel-Based Advanced Porous Silica Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909539 | 15.6 | 59 |
| 86 | The Chemistry of Reticular Framework Nanoparticles: MOF, ZIF, and COF Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1909062 | 15.6 | 79 |
| 85 | Circumventing Wear and Tear of Adaptive Porous Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1908547 | 15.6 | 10 |
| 84 | Controlling the morphology of metal-organic frameworks and porous carbon materials: metal oxides as primary architecture-directing agents. <i>Chemical Society Reviews</i> , 2020 , 49, 3348-3422 | 58.5 | 104 |
| 83 | Clinically Approved MRI Contrast Agents as Imaging Labels for a Porous Iron-Based MOF Nanocarrier: A Systematic Investigation in a Clinical MRI Setting. <i>Advanced Therapeutics</i> , 2020 , 3, 1900126 | 4.9 | 10 |
| 82 | Digital Reticular Chemistry. <i>Chem</i> , 2020 , 6, 2219-2241 | 16.2 | 31 |
| 81 | Metal-Organic Framework Based PVDF Separators for High Rate Cycling Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11907-11919 | 6.1 | 15 |
| 80 | Mehr als nur ein Netzwerk: Strukturierung retikulärer Materialien im Nano-, Meso- und Volumenbereich. <i>Angewandte Chemie</i> , 2020 , 132, 22534-22556 | 3.6 | 5 |
| 79 | Beyond Frameworks: Structuring Reticular Materials across Nano-, Meso-, and Bulk Regimes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22350-22370 | 16.4 | 27 |

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| 78 | Tuning porosity in macroscopic monolithic metal-organic frameworks for exceptional natural gas storage. <i>Nature Communications</i> , 2019 , 10, 2345 | 17.4 | 100 |
| 77 | Nanoparticle Characterization: What to Measure?. <i>Advanced Materials</i> , 2019 , 31, e1901556 | 24 | 107 |
| 76 | Metal-Organic Framework Nanoparticle-Assisted Cryopreservation of Red Blood Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7789-7796 | 16.4 | 44 |
| 75 | SupraCells: Living Mammalian Cells Protected within Functional Modular Nanoparticle-Based Exoskeletons. <i>Advanced Materials</i> , 2019 , 31, e1900545 | 24 | 56 |
| 74 | Coordinative Binding of Polymers to Metal-Organic Framework Nanoparticles for Control of Interactions at the Biointerface. <i>ACS Nano</i> , 2019 , 13, 3884-3895 | 16.7 | 41 |
| 73 | A Chemiluminescent Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2019 , 25, 6349-6354 | 4.8 | 19 |
| 72 | Nanoparticle Characterization: Nanoparticle Characterization: What to Measure? (Adv. Mater. 32/2019). <i>Advanced Materials</i> , 2019 , 31, 1970226 | 24 | 21 |
| 71 | Core-Shell Functionalized Zirconium-Pemetrexed Coordination Nanoparticles as Carriers with a High Drug Content. <i>Advanced Therapeutics</i> , 2019 , 2, 1900120 | 4.9 | 7 |
| 70 | Chemical diversity in a metal-organic framework revealed by fluorescence lifetime imaging. <i>Nature Communications</i> , 2018 , 9, 1647 | 17.4 | 80 |
| 69 | Metal-organic framework nanoparticles for magnetic resonance imaging. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1760-1779 | 6.8 | 74 |
| 68 | On-Surface Synthesis of Highly Oriented Thin Metal-Organic Framework Films through Vapor-Assisted Conversion. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4812-4819 | 16.4 | 96 |
| 67 | Multifunctional Efficiency: Extending the Concept of Atom Economy to Functional Nanomaterials. <i>ACS Nano</i> , 2018 , 12, 2094-2105 | 16.7 | 165 |
| 66 | Bringing Porous Organic and Carbon-Based Materials toward Thin-Film Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1801545 | 15.6 | 38 |
| 65 | Highly stable and porous porphyrin-based zirconium and hafnium phosphonates - electron crystallography as an important tool for structure elucidation. <i>Chemical Science</i> , 2018 , 9, 5467-5478 | 9.4 | 50 |
| 64 | Mass Measurements Reveal Preferential Sorption of Mixed Solvent Components in Porous Nanoparticles. <i>Small</i> , 2018 , 14, e1800826 | 11 | 14 |
| 63 | Multifunctional Nanoparticles by Coordinative Self-Assembly of His-Tagged Units with Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2359-2368 | 16.4 | 127 |
| 62 | Positioning metal-organic framework nanoparticles within the context of drug delivery - A comparison with mesoporous silica nanoparticles and dendrimers. <i>Biomaterials</i> , 2017 , 123, 172-183 | 15.6 | 176 |
| 61 | Metal-Organic Framework Nanoparticles in Photodynamic Therapy: Current Status and Perspectives. <i>Advanced Functional Materials</i> , 2017 , 27, 1606314 | 15.6 | 340 |

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| 60 | Adsorption and Reactive Desorption on Metal-Organic Frameworks: A Direct Strategy for Lactic Acid Recovery. <i>ChemSusChem</i> , 2017 , 10, 643-650 | 8.3 | 13 |
| 59 | Synthesis, functionalisation and post-synthetic modification of bismuth metal-organic frameworks. <i>Dalton Transactions</i> , 2017 , 46, 8658-8663 | 4.3 | 36 |
| 58 | Expanding the Group of Porous Interpenetrated Zr-Organic Frameworks (PIZOFs) with Linkers of Different Lengths. <i>Inorganic Chemistry</i> , 2017 , 56, 748-761 | 5.1 | 40 |
| 57 | Exosome-Coated Metal-Organic Framework Nanoparticles: An Efficient Drug Delivery Platform. <i>Chemistry of Materials</i> , 2017 , 29, 8042-8046 | 9.6 | 134 |
| 56 | Topology-guided functional multiplicity of iron(III)-based metal-organic frameworks. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1965-1974 | 7.8 | 11 |
| 55 | Impact of plasma protein binding on cargo release by thermosensitive liposomes probed by fluorescence correlation spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 119, 215-223 | 5.7 | 16 |
| 54 | Validating Metal-Organic Framework Nanoparticles for Their Nanosafety in Diverse Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600818 | 10.1 | 107 |
| 53 | The chemistry of metal-organic framework nanoparticles. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017 , 73, C1282-C1283 | 1.7 | |
| 52 | Kinetic Analysis of the Uptake and Release of Fluorescein by Metal-Organic Framework Nanoparticles. <i>Materials</i> , 2017 , 10, | 3.5 | 23 |
| 51 | Liposome-Coated Iron Fumarate Metal-Organic Framework Nanoparticles for Combination Therapy. <i>Nanomaterials</i> , 2017 , 7, | 5.4 | 56 |
| 50 | Exploration of MOF nanoparticle sizes using various physical characterization methods – Is what you measure what you get?. <i>CrystEngComm</i> , 2016 , 18, 4359-4368 | 3.3 | 79 |
| 49 | Sequential Pore Wall Modification in a Covalent Organic Framework for Application in Lactic Acid Adsorption. <i>Chemistry of Materials</i> , 2016 , 28, 626-631 | 9.6 | 141 |
| 48 | Investigation of the Co-Dependence of Morphology and Fluorescence Lifetime in a Metal-Organic Framework. <i>Small</i> , 2016 , 12, 3651-7 | 11 | 17 |
| 47 | Nanoparticles 2016 , 491-521 | | 2 |
| 46 | Nanoscale Synthesis of Two Porphyrin-Based MOFs with Gallium and Indium. <i>Inorganic Chemistry</i> , 2016 , 55, 5312-9 | 5.1 | 24 |
| 45 | Imparting Functionality to MOF Nanoparticles by External Surface Selective Covalent Attachment of Polymers. <i>Chemistry of Materials</i> , 2016 , 28, 3318-3326 | 9.6 | 157 |
| 44 | Functionalized PCN-6 metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2015 , 216, 51-55 | 5.3 | 14 |
| 43 | MOF nanoparticles coated by lipid bilayers and their uptake by cancer cells. <i>Chemical Communications</i> , 2015 , 51, 15752-5 | 5.8 | 152 |

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| 42 | Switch-On Fluorescence of a Perylene-Dye-Functionalized Metal-Organic Framework through Postsynthetic Modification. <i>Chemistry - A European Journal</i> , 2015 , 21, 10714-20 | 4.8 | 23 |
| 41 | Turn-on fluorescence triggered by selective internal dye replacement in MOFs. <i>Chemical Communications</i> , 2014 , 50, 3599-601 | 5.8 | 38 |
| 40 | Solvent-Free and Time Efficient Postsynthetic Modification of Amino-Tagged Metal-Organic Frameworks with Carboxylic Acid Derivatives. <i>Chemistry of Materials</i> , 2014 , 26, 6722-6728 | 9.6 | 61 |
| 39 | Postsynthetic modification of an amino-tagged MOF using peptide coupling reagents: a comparative study. <i>Chemical Communications</i> , 2014 , 50, 11472-5 | 5.8 | 47 |
| 38 | Highly sensitive and selective fluoride detection in water through fluorophore release from a metal-organic framework. <i>Scientific Reports</i> , 2013 , 3, 2562 | 4.9 | 91 |
| 37 | Nitric Oxide Adsorption and Delivery in Flexible MIL-88(Fe) Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2013 , 25, 1592-1599 | 9.6 | 199 |
| 36 | A rare example of a porous Ca-MOF for the controlled release of biologically active NO. <i>Chemical Communications</i> , 2013 , 49, 7773-5 | 5.8 | 120 |
| 35 | Energy-efficient dehumidification over hierarchically porous metal-organic frameworks as advanced water adsorbents. <i>Advanced Materials</i> , 2012 , 24, 806-10 | 24 | 237 |
| 34 | Porous Materials: Energy-Efficient Dehumidification over Hierarchically Porous Metal-Organic Frameworks as Advanced Water Adsorbents (Adv. Mater. 6/2012). <i>Advanced Materials</i> , 2012 , 24, 710-710 ²⁴ | | 7 |
| 33 | Highly oriented surface-growth and covalent dye labeling of mesoporous metal-organic frameworks. <i>Dalton Transactions</i> , 2012 , 41, 3899-901 | 4.3 | 26 |
| 32 | Discovering the active sites for C3 separation in MIL-100(Fe) by using operando IR spectroscopy. <i>Chemistry - A European Journal</i> , 2012 , 18, 11959-67 | 4.8 | 77 |
| 31 | Sn-doped hydroxylated MgFI catalysts for the fast and selective saccharification of cellulose to glucose. <i>ChemSusChem</i> , 2012 , 5, 1708-11 | 8.3 | 21 |
| 30 | How Interpenetration Ensures Rigidity and Permanent Porosity in a Highly Flexible Hybrid Solid. <i>Chemistry of Materials</i> , 2012 , 24, 2486-2492 | 9.6 | 42 |
| 29 | One-Pot Hydroacetylation of Menadione (Vitamin K3) to Menadiol Diacetate (Vitamin K4) by Heterogeneous Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 1301-1306 | 5.6 | 11 |
| 28 | Novel sol-gel prepared zinc fluoride: synthesis, characterisation and acid-base sites analysis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14587 | | 25 |
| 27 | Bifunctional Nanoscopic Catalysts for the One-Pot Synthesis of (R)-Menthol from Citral. <i>Topics in Catalysis</i> , 2012 , 55, 680-687 | 2.3 | 18 |
| 26 | Replacing benzyl chloride with benzyl alcohol in heterogeneous catalytic benzylation of aromatic compounds. <i>Pure and Applied Chemistry</i> , 2012 , 84, 427-437 | 2.1 | 10 |
| 25 | Series of Porous 3-D Coordination Polymers Based on Iron(III) and Porphyrin Derivatives. <i>Chemistry of Materials</i> , 2011 , 23, 4641-4651 | 9.6 | 66 |

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| 24 | Highly selective metal fluoride catalysts for the dehydrohalogenation of 3-chloro-1,1,1,3-tetrafluorobutane. <i>Journal of Catalysis</i> , 2011 , 282, 175-182 | 7.3 | 71 |
| 23 | Hydroxylated magnesium fluorides as environmentally friendly catalysts for glycerol acetylation. <i>Applied Catalysis B: Environmental</i> , 2011 , 107, 260-267 | 21.8 | 46 |
| 22 | How linker's modification controls swelling properties of highly flexible iron(III) dicarboxylates MIL-88. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17839-47 | 16.4 | 307 |
| 21 | Taylor-Made MgF ₂ -Based Catalysts by Sol-Gel Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 4773-4794 | 2.3 | 64 |
| 20 | Friedel-Crafts alkylations on nanoscopic inorganic fluorides. <i>Applied Catalysis A: General</i> , 2011 , 391, 169-174 | 17.4 | 29 |
| 19 | Infrared Investigation of the Acid and Basic Properties of a Sol-Gel Prepared MgF ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5113-5120 | 3.8 | 37 |
| 18 | Synthesis of Vitamin K1 and K1-Chromanol by Friedel-Crafts Alkylation in Heterogeneous Catalysis. <i>ChemCatChem</i> , 2010 , 2, 92-97 | 5.2 | 33 |
| 17 | Stereoselective Synthesis of Alicyclic Amines. <i>Topics in Catalysis</i> , 2010 , 53, 1121-1125 | 2.3 | 7 |
| 16 | Controlled Reducibility of a Metal-Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. <i>Angewandte Chemie</i> , 2010 , 122, 6085-6088 | 3.6 | 53 |
| 15 | Eintopfsynthese von Menthol in Gegenwart eines hoch diastereoselektiven Au/MgF ₂ -Katalysators. <i>Angewandte Chemie</i> , 2010 , 122, 8311-8315 | 3.6 | 10 |
| 14 | Controlled reducibility of a metal-organic framework with coordinatively unsaturated sites for preferential gas sorption. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5949-52 | 16.4 | 430 |
| 13 | One-pot synthesis of menthol catalyzed by a highly diastereoselective Au/MgF ₂ catalyst. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8134-8 | 16.4 | 47 |
| 12 | Inside Cover: Controlled Reducibility of a Metal-Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption (Angew. Chem. Int. Ed. 34/2010). <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5804-5804 | 16.4 | 8 |
| 11 | Sol-gel prepared nanoscopic metal fluorides – a new class of tunable acid-base catalysts. <i>Catalysis Today</i> , 2010 , 152, 2-10 | 5.3 | 43 |
| 10 | Investigation of the fluorolysis of magnesium methoxide. <i>Dalton Transactions</i> , 2009 , 4729-34 | 4.3 | 19 |
| 9 | Cyclisation of citronellal over heterogeneous inorganic fluorides—highly chemo- and diastereoselective catalysts for (+/-)-isopulegol. <i>Chemical Communications</i> , 2009 , 460-2 | 5.8 | 42 |
| 8 | A comparative study of surface acidity in the amorphous, high surface area solids, aluminium fluoride, magnesium fluoride and magnesium fluoride containing iron(III) or aluminium(III) fluorides. <i>Journal of Fluorine Chemistry</i> , 2008 , 129, 366-375 | 2.1 | 21 |
| 7 | Novel sol-gel synthesis of acidic MgF _{2-x} (OH) _x materials. <i>Chemistry - A European Journal</i> , 2008 , 14, 11488-99 | 4.8 | 88 |

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| 6 | Mg ₆ F ₂ (OMe) ₁₀ (MeOH) ₁₄ --an alkoxide fluoride of an alkaline earth metal. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 190-2 | 16.4 | 18 |
| 5 | Catalytic Performance of Nanoscopic, Aluminium Trifluoride-Based Catalysts in the Synthesis of (all-rac)- β -Tocopherol. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 2517-2524 | 5.6 | 43 |
| 4 | Mg ₆ F ₂ (OMe) ₁₀ (MeOH) ₁₄ in Alkoxidfluorid eines Erdalkalimetalls. <i>Angewandte Chemie</i> , 2008 , 120, 196-198 | 3.6 | 3 |
| 3 | Variation of sol-gel synthesis parameters and their consequence for the surface area and structure of magnesium fluoride. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4980 | | 43 |
| 2 | MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning. <i>Angewandte Chemie</i> , | 3.6 | 1 |
| 1 | Multivariate Functionalization of UiO-66 for Photocatalytic Water Remediation. <i>Advanced Sustainable Systems</i> , 2200024 | 5.9 | 0 |