

# Stefan Wuttke

## List of Publications by Citations

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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	Controlled reducibility of a metal-organic framework with coordinatively unsaturated sites for preferential gas sorption. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5949-52	16.4	430
112	Metal-Organic Framework Nanoparticles in Photodynamic Therapy: Current Status and Perspectives. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606314	15.6	340
111	How linker's modification controls swelling properties of highly flexible iron(III) dicarboxylates MIL-88. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17839-47	16.4	307
110	Energy-efficient dehumidification over hierarchically porous metal-organic frameworks as advanced water adsorbents. <i>Advanced Materials</i> , <b>2012</b> , 24, 806-10	24	237
109	Nitric Oxide Adsorption and Delivery in Flexible MIL-88(Fe) Metal-Organic Frameworks. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1592-1599	9.6	199
108	Positioning metal-organic framework nanoparticles within the context of drug delivery - A comparison with mesoporous silica nanoparticles and dendrimers. <i>Biomaterials</i> , <b>2017</b> , 123, 172-183	15.6	176
107	Multifunctional Efficiency: Extending the Concept of Atom Economy to Functional Nanomaterials. <i>ACS Nano</i> , <b>2018</b> , 12, 2094-2105	16.7	165
106	Imparting Functionality to MOF Nanoparticles by External Surface Selective Covalent Attachment of Polymers. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3318-3326	9.6	157
105	MOF nanoparticles coated by lipid bilayers and their uptake by cancer cells. <i>Chemical Communications</i> , <b>2015</b> , 51, 15752-5	5.8	152
104	Sequential Pore Wall Modification in a Covalent Organic Framework for Application in Lactic Acid Adsorption. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 626-631	9.6	141
103	Exosome-Coated Metal-Organic Framework Nanoparticles: An Efficient Drug Delivery Platform. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8042-8046	9.6	134
102	Multifunctional Nanoparticles by Coordinative Self-Assembly of His-Tagged Units with Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 2359-2368	16.4	127
101	A rare example of a porous Ca-MOF for the controlled release of biologically active NO. <i>Chemical Communications</i> , <b>2013</b> , 49, 7773-5	5.8	120
100	Pore Chemistry of Metal-Organic Frameworks. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000238	15.6	110
99	Nanoparticle Characterization: What to Measure?. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901556	24	107
98	Validating Metal-Organic Framework Nanoparticles for Their Nanosafety in Diverse Biomedical Applications. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1600818	10.1	107
97	Controlling the morphology of metal-organic frameworks and porous carbon materials: metal oxides as primary architecture-directing agents. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 3348-3422	58.5	104

96	Tuning porosity in macroscopic monolithic metal-organic frameworks for exceptional natural gas storage. <i>Nature Communications</i> , <b>2019</b> , 10, 2345	17.4	100
95	On-Surface Synthesis of Highly Oriented Thin Metal-Organic Framework Films through Vapor-Assisted Conversion. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4812-4819	16.4	96
94	Highly sensitive and selective fluoride detection in water through fluorophore release from a metal-organic framework. <i>Scientific Reports</i> , <b>2013</b> , 3, 2562	4.9	91
93	Novel sol-gel synthesis of acidic MgF(2-x)(OH)(x) materials. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 11488-99	4.8	88
92	Chemical diversity in a metal-organic framework revealed by fluorescence lifetime imaging. <i>Nature Communications</i> , <b>2018</b> , 9, 1647	17.4	80
91	The Chemistry of Reticular Framework Nanoparticles: MOF, ZIF, and COF Materials. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909062	15.6	79
90	Exploration of MOF nanoparticle sizes using various physical characterization methods [Is what you measure what you get?]. <i>CrystEngComm</i> , <b>2016</b> , 18, 4359-4368	3.3	79
89	Discovering the active sites for C3 separation in MIL-100(Fe) by using operando IR spectroscopy. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 11959-67	4.8	77
88	The Current Status of MOF and COF Applications. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23975-24001	16.4	75
87	Metal-organic framework nanoparticles for magnetic resonance imaging. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1760-1779	6.8	74
86	Highly selective metal fluoride catalysts for the dehydrohalogenation of 3-chloro-1,1,1,3-tetrafluorobutane. <i>Journal of Catalysis</i> , <b>2011</b> , 282, 175-182	7.3	71
85	Series of Porous 3-D Coordination Polymers Based on Iron(III) and Porphyrin Derivatives. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4641-4651	9.6	66
84	Tailor-Made MgF <sub>2</sub> -Based Catalysts by Sol-Gel Synthesis. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 4773-4794	2.3	64
83	Solvent-Free and Time Efficient Postsynthetic Modification of Amino-Tagged Metal-Organic Frameworks with Carboxylic Acid Derivatives. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6722-6728	9.6	61
82	Sol-Gel-Based Advanced Porous Silica Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909539	15.6	59
81	SupraCells: Living Mammalian Cells Protected within Functional Modular Nanoparticle-Based Exoskeletons. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900545	24	56
80	Liposome-Coated Iron Fumarate Metal-Organic Framework Nanoparticles for Combination Therapy. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	56
79	Controlled Reducibility of a Metal-Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 6085-6088	3.6	53

78	Metal-Organic Framework Nanoparticles Induce Pyroptosis in Cells Controlled by the Extracellular pH. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907267	24	50
77	Highly stable and porous porphyrin-based zirconium and hafnium phosphonates - electron crystallography as an important tool for structure elucidation. <i>Chemical Science</i> , <b>2018</b> , 9, 5467-5478	9.4	50
76	25 Years of Reticular Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23946-23974	16.4	50
75	Postsynthetic modification of an amino-tagged MOF using peptide coupling reagents: a comparative study. <i>Chemical Communications</i> , <b>2014</b> , 50, 11472-5	5.8	47
74	One-pot synthesis of menthol catalyzed by a highly diastereoselective Au/MgF <sub>2</sub> catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8134-8	16.4	47
73	Hydroxylated magnesium fluorides as environmentally friendly catalysts for glycerol acetylation. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 107, 260-267	21.8	46
72	Metal-Organic Framework Nanoparticle-Assisted Cryopreservation of Red Blood Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7789-7796	16.4	44
71	Sol-gel prepared nanoscopic metal fluorides – a new class of tunable acid-base catalysts. <i>Catalysis Today</i> , <b>2010</b> , 152, 2-10	5.3	43
70	Catalytic Performance of Nanoscopic, Aluminium Trifluoride-Based Catalysts in the Synthesis of (all-rac)- $\alpha$ -Tocopherol. <i>Advanced Synthesis and Catalysis</i> , <b>2008</b> , 350, 2517-2524	5.6	43
69	Variation of sol-gel synthesis parameters and their consequence for the surface area and structure of magnesium fluoride. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 4980		43
68	How Interpenetration Ensures Rigidity and Permanent Porosity in a Highly Flexible Hybrid Solid. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2486-2492	9.6	42
67	Cyclisation of citronellal over heterogeneous inorganic fluorides – highly chemo- and diastereoselective catalysts for (+/-)-isopulegol. <i>Chemical Communications</i> , <b>2009</b> , 460-2	5.8	42
66	Coordinative Binding of Polymers to Metal-Organic Framework Nanoparticles for Control of Interactions at the Biointerface. <i>ACS Nano</i> , <b>2019</b> , 13, 3884-3895	16.7	41
65	Expanding the Group of Porous Interpenetrated Zr-Organic Frameworks (PIZOFs) with Linkers of Different Lengths. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 748-761	5.1	40
64	Turn-on fluorescence triggered by selective internal dye replacement in MOFs. <i>Chemical Communications</i> , <b>2014</b> , 50, 3599-601	5.8	38
63	Bringing Porous Organic and Carbon-Based Materials toward Thin-Film Applications. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801545	15.6	38
62	Infrared Investigation of the Acid and Basic Properties of a Sol-gel Prepared MgF <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 5113-5120	3.8	37
61	Synthesis, functionalisation and post-synthetic modification of bismuth metal-organic frameworks. <i>Dalton Transactions</i> , <b>2017</b> , 46, 8658-8663	4.3	36

60	Synthesis of Vitamin K1 and K1-Chromanol by Friedel-Crafts Alkylation in Heterogeneous Catalysis. <i>ChemCatChem</i> , <b>2010</b> , 2, 92-97	5.2	33
59	Digital Reticular Chemistry. <i>Chem</i> , <b>2020</b> , 6, 2219-2241	16.2	31
58	Friedel-Crafts alkylations on nanoscopic inorganic fluorides. <i>Applied Catalysis A: General</i> , <b>2011</b> , 391, 169-174	17.4	29
57	Beyond Frameworks: Structuring Reticular Materials across Nano-, Meso-, and Bulk Regimes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22350-22370	16.4	27
56	Highly oriented surface-growth and covalent dye labeling of mesoporous metal-organic frameworks. <i>Dalton Transactions</i> , <b>2012</b> , 41, 3899-901	4.3	26
55	Novel sol-gel prepared zinc fluoride: synthesis, characterisation and acid-base sites analysis. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14587		25
54	Nanoscale Synthesis of Two Porphyrin-Based MOFs with Gallium and Indium. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 5312-9	5.1	24
53	Kinetic Analysis of the Uptake and Release of Fluorescein by Metal-Organic Framework Nanoparticles. <i>Materials</i> , <b>2017</b> , 10,	3.5	23
52	Switch-On Fluorescence of a Perylene-Dye-Functionalized Metal-Organic Framework through Postsynthetic Modification. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 10714-20	4.8	23
51	Nanoparticle Characterization: Nanoparticle Characterization: What to Measure? (Adv. Mater. 32/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970226	24	21
50	Sn-doped hydroxylated MgF <sub>2</sub> catalysts for the fast and selective saccharification of cellulose to glucose. <i>ChemSusChem</i> , <b>2012</b> , 5, 1708-11	8.3	21
49	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> , <b>2008</b> , 129, 366-375	2.1	21
48	A Chemiluminescent Metal-Organic Framework. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 6349-6354	4.8	19
47	Investigation of the fluorolysis of magnesium methoxide. <i>Dalton Transactions</i> , <b>2009</b> , 4729-34	4.3	19
46	Bifunctional Nanoscopic Catalysts for the One-Pot Synthesis of (R)-Menthol from Citral. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 680-687	2.3	18
45	Mg <sub>6</sub> F <sub>2</sub> (OMe) <sub>10</sub> (MeOH) <sub>14</sub> --an alkoxide fluoride of an alkaline earth metal. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 190-2	16.4	18
44	Toxicity of metal-organic framework nanoparticles: from essential analyses to potential applications.. <i>Chemical Society Reviews</i> , <b>2022</b> ,	58.5	17
43	Investigation of the Co-Dependence of Morphology and Fluorescence Lifetime in a Metal-Organic Framework. <i>Small</i> , <b>2016</b> , 12, 3651-7	11	17

42	Applications of reticular diversity in metal-organic frameworks: An ever-evolving state of the art. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 430, 213655	23.2	17
41	Impact of plasma protein binding on cargo release by thermosensitive liposomes probed by fluorescence correlation spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 119, 215-223	5.7	16
40	Metal-Organic Framework Based PVDF Separators for High Rate Cycling Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11907-11919	6.1	15
39	Functionalized PCN-6 metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 216, 51-55	5.3	14
38	Mass Measurements Reveal Preferential Sorption of Mixed Solvent Components in Porous Nanoparticles. <i>Small</i> , <b>2018</b> , 14, e1800826	11	14
37	Adsorption and Reactive Desorption on Metal-Organic Frameworks: A Direct Strategy for Lactic Acid Recovery. <i>ChemSusChem</i> , <b>2017</b> , 10, 643-650	8.3	13
36	Modular Assembly of Red Blood Cell Superstructures from Metal-Organic Framework Nanoparticle-Based Building Blocks. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005935	15.6	12
35	Topology-guided functional multiplicity of iron(III)-based metal-organic frameworks. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1965-1974	7.8	11
34	One-Pot Hydroacetylation of Menadione (Vitamin K3) to Menadiol Diacetate (Vitamin K4) by Heterogeneous Catalysis. <i>Advanced Synthesis and Catalysis</i> , <b>2012</b> , 354, 1301-1306	5.6	11
33	Circumventing Wear and Tear of Adaptive Porous Materials. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908547	15.6	10
32	Replacing benzyl chloride with benzyl alcohol in heterogeneous catalytic benzylation of aromatic compounds. <i>Pure and Applied Chemistry</i> , <b>2012</b> , 84, 427-437	2.1	10
31	Eintopfsynthese von Menthol in Gegenwart eines hoch diastereoselektiven Au/MgF <sub>2</sub> -Katalysators. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8311-8315	3.6	10
30	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> , <b>2020</b> , 3, 1900126	4.9	10
29	Metallo-drugs in cancer nanomedicine.. <i>Chemical Society Reviews</i> , <b>2022</b> ,	58.5	10
28	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> , <b>2010</b> , 49, 5804-5804	16.4	8
27	Tuning the Morphological Appearance of Iron(III) Fumarate: Impact on Material Characteristics and Biocompatibility. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2253-2263	9.6	7
26	Core-Shell Functionalized Zirconium-Pemetrexed Coordination Nanoparticles as Carriers with a High Drug Content. <i>Advanced Therapeutics</i> , <b>2019</b> , 2, 1900120	4.9	7
25	Porous Materials: Energy-Efficient Dehumidification over Hierarchically Porous Metal-Organic Frameworks as Advanced Water Adsorbents (Adv. Mater. 6/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 710-710	24	7

24	Stereoselective Synthesis of Alicyclic Amines. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 1121-1125	2.3	7
23	MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	7
22	Overcoming the paracetamol dose challenge with wrinkled mesoporous carbon spheres. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 586, 673-682	9.3	7
21	Artificial Bioaugmentation of Biomacromolecules and Living Organisms for Biomedical Applications. <i>ACS Nano</i> , <b>2021</b> , 15, 3900-3926	16.7	6
20	Mehr als nur ein Netzwerk: Strukturierung retikulärer Materialien im Nano-, Meso- und Volumenbereich. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22534-22556	3.6	5
19	Printed Capacitive Sensors Based on Ionic Liquid/Metal-Organic Framework Composites for Volatile Organic Compounds Detection. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010703	15.6	4
18	Chitin/Metal-Organic Framework Composites as Wide-Range Adsorbent. <i>ChemSusChem</i> , <b>2021</b> , 14, 2892-2901	3.9	4
17	Der derzeitige Stand von MOF- und COF-Anwendungen. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 24174	3.6	4
16	Linker Exchange via Migration along the Backbone in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10541-10546	16.4	4
15	Mg <sub>6</sub> F <sub>2</sub> (OMe) <sub>10</sub> (MeOH) <sub>14</sub> Ein Alkoxidfluorid eines Erdalkalimetalls. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 196-198	3.6	3
14	Ferromagnetic supramolecular metal-organic frameworks for active capture and magnetic sensing of emerging drug pollutants. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100421	6.1	3
13	Single Crystals Heterogeneity Impacts the Intrinsic and Extrinsic Properties of Metal-Organic Frameworks. <i>Advanced Materials</i> , <b>2021</b> , e2104530	24	2
12	Nanoparticles <b>2016</b> , 491-521		2
11	Nanoscience versus Viruses: The SARS-CoV-2 Case. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2107826	15.6	2
10	Colloidal nanoparticles as pharmaceutical agents. <i>Frontiers of Nanoscience</i> , <b>2020</b> , 16, 89-115	0.7	1
9	MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning. <i>Angewandte Chemie</i> ,	3.6	1
8	Identification of the Physicochemical Factors Involved in the Dye Separation via Methionine-Functionalized Mesoporous Carbons. <i>Advanced Sustainable Systems</i> , <b>2021</b> , 5, 2100013	5.9	1
7	From Molecules to Frameworks to Superframework Crystals. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103808	24	1

6	Living Cell Nanoporation and Exosomal RNA Analysis Platform for Real-Time Assessment of Cellular Therapies. <i>Journal of the American Chemical Society</i> , <b>2022</b> , 144, 9443-9450	16.4	1
5	MRI-Active Metal-Organic Frameworks: Concepts for the Translation from Lab to Clinic. <i>Advanced Therapeutics</i> , <b>2021</b> , 4, 2100067	4.9	0
4	25 Jahre retikuläre Chemie. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 24142	3.6	0
3	Multivariate Functionalization of UiO-66 for Photocatalytic Water Remediation. <i>Advanced Sustainable Systems</i> , 2200024	5.9	0
2	The chemistry of metal-organic framework nanoparticles. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2017</b> , 73, C1282-C1283	1.7	
1	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> , <b>2021</b> , 31, 2170182	15.6	