Roland A Fischer

List of Publications by Year
in descending order

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679 papers	51,314 citations	1883 102 h-index	2675 193 g-index
744 all docs	744 docs citations	744 times ranked	32849 citing authors

#	Article	IF	Citations
1	Synthesis of Metal-Organic Frameworks (MOFs): Routes to Various MOF Topologies, Morphologies, and Composites. Chemical Reviews, 2012, 112, 933-969.	23.0	3,923
2	Flexible metalâ€“organic frameworks. Chemical Society Reviews, 2014, 43, 6062-6096.	18.7	1,741
3	MOF thin films: existing and future applications. Chemical Society Reviews, 2011, 40, 1081.	18.7	1,197
4	Metalâ€“Organic Framework Thin Films: From Fundamentals to Applications.. Chemical Reviews, 2012, 112, 1055-1083.	23.0	1,034
5	Co@Co₃O₄ Encapsulated in Carbon Nanotubeâ€Grafted Nitrogenâ€Doped Carbon Polyhedra as an Advanced Bifunctional Oxygen Electrode. Angewandte Chemie - International Edition, 2016, 55, 4087-4091.	7.2	1,027
6	Defectâ€Engineered Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2015, 54, 7234-7254.	7.2	923
7	Thin films of metalâ€“organic frameworks. Chemical Society Reviews, 2009, 38, 1418.	18.7	829
8	Step-by-Step Route for the Synthesis of Metalâ^'Organic Frameworks. Journal of the American Chemical Society, 2007, 129, 15118-15119.	6.6	811
9	Metal@MOF: Loading of Highly Porous Coordination Polymers Host Lattices by Metal Organic Chemical Vapor Deposition. Angewandte Chemie - International Edition, 2005, 44, 6237-6241.	7.2	662
10	Selective Nucleation and Growth of Metalâ^'Organic Open Framework Thin Films on Patterned COOH/CF3-Terminated Self-Assembled Monolayers on Au(111). Journal of the American Chemical Society, 2005, 127, 13744-13745.	6.6	535
11	Controlling interpenetration in metalâ€“organic frameworks by liquid-phase epitaxy. Nature Materials, 2009, 8, 481-484.	13.3	500
12	Nonlinear optical properties, upconversion and lasing in metalâ€“organic frameworks. Chemical Society Reviews, 2017, 46, 4976-5004.	18.7	493
13	Effective Mercury Sorption by Thiol-Laced Metalâ€“Organic Frameworks: in Strong Acid and the Vapor Phase. Journal of the American Chemical Society, 2013, 135, 7795-7798.	6.6	492
14	High-Throughput Assisted Rationalization of the Formation of Metal Organic Frameworks in the Iron(III) Aminoterephthalate Solvothermal System. Inorganic Chemistry, 2008, 47, 7568-7576.	1.9	480
15	Metals@MOFs â€“ Loading MOFs with Metal Nanoparticles for Hybrid Functions. European Journal of Inorganic Chemistry, 2010, 2010, 3701-3714.	1.0	467
16	Defective Metalâ€Organic Frameworks. Advanced Materials, 2018, 30, e1704501.	11.1	427
17	Directing the Breathing Behavior of Pillared-Layered Metalâ€“Organic Frameworks via a Systematic Library of Functionalized Linkers Bearing Flexible Substituents. Journal of the American Chemical Society, 2012, 134, 9464-9474.	6.6	415
18	How Linkerâ€™s Modification Controls Swelling Properties of Highly Flexible Iron(III) Dicarboxylates MIL-88. Journal of the American Chemical Society, 2011, 133, 17839-17847.	6.6	383

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19	Cerium-based metal organic frameworks with UiO-66 architecture: synthesis, properties and redox catalytic activity. Chemical Communications, 2015, 51, 12578-12581.	2.2	377
20	Biomimetic Superhydrophobic/Superoleophilic Highly Fluorinated Graphene Oxide and ZIFâ€8 Composites for Oilâ€“Water Separation. Angewandte Chemie - International Edition, 2016, 55, 1178-1182.	7.2	370
21	Growth Mechanism of Metalâ€“Organic Frameworks: Insights into the Nucleation by Employing a Stepâ€byâ€Step Route. Angewandte Chemie - International Edition, 2009, 48, 5038-5041.	7.2	359
22	Ruthenium Nanoparticles inside Porous [Zn₄O(bdc)₃] by Hydrogenolysis of Adsorbed [Ru(cod)(cot)]: A Solid-State Reference System for Surfactant-Stabilized Ruthenium Colloids. Journal of the American Chemical Society, 2008, 130, 6119-6130.	6.6	348
23	Ultrathin Hierarchical Porous Carbon Nanosheets for Highâ€Performance Supercapacitors and Redox Electrolyte Energy Storage. Advanced Materials, 2018, 30, e1705789.	11.1	309
24	Structures, Sorption Characteristics, and Nonlinear Optical Properties of a New Series of Highly Stable Aluminum MOFs. Chemistry of Materials, 2013, 25, 17-26.	3.2	307
25	Surface Chemistry of Metalâ€“Organic Frameworks at the Liquidâ€“Solid Interface. Angewandte Chemie - International Edition, 2011, 50, 176-199.	7.2	292
26	Trapping Metal-Organic Framework Nanocrystals:Â Anin-SituTime-Resolved Light Scattering Study on the Crystal Growth of MOF-5 in Solution. Journal of the American Chemical Society, 2007, 129, 5324-5325.	6.6	273
27	Direct covalent post-synthetic chemical modification of Cr-MIL-101 using nitrating acid. Chemical Communications, 2011, 47, 2838.	2.2	265
28	Au@ZIFs: Stabilization and Encapsulation of Cavity-Size Matching Gold Clusters inside Functionalized Zeolite Imidazolate Frameworks, ZIFs. Chemistry of Materials, 2010, 22, 6393-6401.	3.2	261
29	Loading of MOF-5 with Cu and ZnO Nanoparticles by Gas-Phase Infiltration with Organometallic Precursors: Properties of Cu/ZnO@MOF-5 as Catalyst for Methanol Synthesis. Chemistry of Materials, 2008, 20, 4576-4587.	3.2	260
30	New Functionalized Flexible Al-MIL-53-X (X = -Cl, -Br, -CH₃, -NO₂,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T Chemistry, 2011, 50, 9518-9526.	1.9	254
31	Luminescence properties of nanocrystalline Y[sub 2]O[sub 3]:Eu[sup 3+] in different host materials. Journal of Applied Physics, 2001, 89, 1679.	1.1	252
32	Structural Complexity in Metalâ€“Organic Frameworks: Simultaneous Modification of Open Metal Sites and Hierarchical Porosity by Systematic Doping with Defective Linkers. Journal of the American Chemical Society, 2014, 136, 9627-9636.	6.6	240
33	Multifunctional, Defectâ€Engineered Metalâ€“Organic Frameworks with Ruthenium Centers: Sorption and Catalytic Properties. Angewandte Chemie - International Edition, 2014, 53, 7058-7062.	7.2	237
34	Metalâ€“organic framework thin films: electrochemical fabrication techniques and corresponding applications & perspectives. Journal of Materials Chemistry A, 2016, 4, 12356-12369.	5.2	210
35	Deposition of microcrystalline [Cu3(btc)2] and [Zn2(bdc)2(dabco)] at alumina and silica surfaces modified with patterned self assembled organic monolayers: evidence of surface selective and oriented growth. Journal of Materials Chemistry, 2007, 17, 2785.	6.7	209
36	Metalâ€“organic frameworks as hosts for nanoparticles. CrystEngComm, 2015, 17, 199-217.	1.3	209

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37	High-Throughput Fabrication of Uniform and Homogenous MOF Coatings. Advanced Functional Materials, 2011, 21, 4228-4231.	7.8	208
38	Loading of porous metalâ€“organic open frameworks with organometallic CVD precursors: inclusion compounds of the type [LnM]a@MOF-5. Journal of Materials Chemistry, 2006, 16, 2464-2472.	6.7	204
39	Investigation of Porous Ni-Based Metalâ€“Organic Frameworks Containing Paddle-Wheel Type Inorganic Building Units via High-Throughput Methods. Inorganic Chemistry, 2011, 50, 5085-5097.	1.9	200
40	Iron-Based Metalâ€“Organic Frameworks MIL-88B and NH₂-MIL-88B: High Quality Microwave Synthesis and Solvent-Induced Lattice â€œBreathingâ€• Crystal Growth and Design, 2013, 13, 2286-2291.	1.4	199
41	Nanoporous Nitrogenâ€Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metalâ€Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. Advanced Functional Materials, 2017, 27, 1700451.	7.8	198
42	Transition Metal Chemistry of Low Valent Group 13 Organyls. European Journal of Inorganic Chemistry, 2004, 2004, 4161-4176.	1.0	190
43	Enantiopure Metalâ€“Organic Framework Thin Films: Oriented SURMOF Growth and Enantioselective Adsorption. Angewandte Chemie - International Edition, 2012, 51, 807-810.	7.2	189
44	Massive Anisotropic Thermal Expansion and Thermoâ€Responsive Breathing in Metalâ€“Organic Frameworks Modulated by Linker Functionalization. Advanced Functional Materials, 2013, 23, 5990-5996.	7.8	187
45	A Cryogenically Flexible Covalent Organic Framework for Efficient Hydrogen Isotope Separation by Quantum Sieving. Angewandte Chemie - International Edition, 2013, 52, 13219-13222.	7.2	183
46	Direct growth of Cu3(BTC)2(H2O)3Â·xH2O thin films on modified QCM-gold electrodes â€“ Water sorption isotherms. Microporous and Mesoporous Materials, 2008, 114, 380-386.	2.2	181
47	Coordination Chemistry of Aluminum, Gallium, and Indium at Transition Metals. Angewandte Chemie - International Edition, 1999, 38, 2830-2850.	7.2	176
48	Selective Growth and MOCVD Loading of Small Single Crystals of MOF-5 at Alumina and Silica Surfaces Modified with Organic Self-Assembled Monolayersâ€. Chemistry of Materials, 2007, 19, 2168-2173.	3.2	174
49	Synthesis, Structure and Properties of Related MicroporousN,Nâ€˜-Piperazinebismethylenephosphonates of Aluminum and Titanium. Chemistry of Materials, 2006, 18, 1451-1457.	3.2	173
50	F-Doped Co₃O₄ Photocatalysts for Sustainable H₂ Generation from Water/Ethanol. Journal of the American Chemical Society, 2011, 133, 19362-19365.	6.6	171
51	Integration of Porous Coordination Polymers and Gold Nanorods into Coreâ€“Shell Mesoscopic Composites toward Light-Induced Molecular Release. Journal of the American Chemical Society, 2013, 135, 10998-11005.	6.6	171
52	The first porous MOF with photoswitchable linker molecules. Dalton Transactions, 2011, 40, 4217.	1.6	170
53	1D ZnO nano-assemblies by Plasma-CVD as chemical sensors for flammable and toxic gases. Sensors and Actuators B: Chemical, 2010, 149, 1-7.	4.0	169
54	High-Throughput Synthesis of Phosphonate-Based Inorganicâ€“Organic Hybrid Compounds under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2004, 43, 749-752.	7.2	168

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55	Water adsorption behaviour of CAU-10-H: a thorough investigation of its structureâ€“property relationships. Journal of Materials Chemistry A, 2016, 4, 11859-11869.	5.2	166
56	Liquidâ€Phase Epitaxy of Multicomponent Layerâ€Based Porous Coordination Polymer Thin Films of [M(L)(P)0.5] Type: Importance of Deposition Sequence on the Oriented Growth. Chemistry - A European Journal, 2011, 17, 1448-1455.	1.7	155
57	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metalâ€Organic Nanofibrous Gel Composites for Oil Adsorption. Advanced Materials, 2017, 29, 1605307.	11.1	155
58	Gated Channels in a Honeycomb-like Zinc^'Dicarboxylate^'Bipyridine Framework with Flexible Alkyl Ether Side Chains. Journal of the American Chemical Society, 2011, 133, 2064-2067.	6.6	153
59	Automated Diffraction Tomography for the Structure Elucidation of Twinned, Subâ€micrometer Crystals of a Highly Porous, Catalytically Active Bismuth Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 10373-10376.	7.2	151
60	High-throughput investigations employing solvothermal syntheses. Microporous and Mesoporous Materials, 2010, 129, 287-295.	2.2	146
61	MOF-on-MOF heteroepitaxy: perfectly oriented [Zn2(ndc)2(dabco)]n grown on [Cu2(ndc)2(dabco)]n thin films. Dalton Transactions, 2011, 40, 4954.	1.6	146
62	Direct Imaging of Loaded Metal^'Organic Framework Materials (Metal@MOF-5). Chemistry of Materials, 2008, 20, 5622-5627.	3.2	145
63	A metalâ€“organic framework for efficient water-based ultra-low-temperature-driven cooling. Nature Communications, 2019, 10, 3025.	5.8	145
64	Fabrication of Gold/Titania Photocatalyst for CO₂ Reduction Based on Pyrolytic Conversion of the Metalâ€“Organic Framework NH₂-MIL-125(Ti) Loaded with Gold Nanoparticles. Chemistry of Materials, 2015, 27, 7248-7257.	3.2	143
65	Co₃O₄/ZnO Nanocomposites: From Plasma Synthesis to Gas Sensing Applications. ACS Applied Materials & Interfaces, 2012, 4, 928-934.	4.0	141
66	Metalâ€“Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Liâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2019, 29, 1900532.	7.8	141
67	Engineering Zeoliticâ€Imidazolate Framework (ZIF) Thin Film Devices for Selective Detection of Volatile Organic Compounds. Advanced Functional Materials, 2015, 25, 4470-4479.	7.8	140
68	High-Throughput Aided Synthesis of the Porous Metal^'Organic Framework-Type Aluminum Pyromellitate, MIL-121, with Extra Carboxylic Acid Functionalization. Inorganic Chemistry, 2010, 49, 9852-9862.	1.9	139
69	Metal@COFs: Covalent Organic Frameworks as Templates for Pd Nanoparticles and Hydrogen Storage Properties of Pd@COFâ€102 Hybrid Material. Chemistry - A European Journal, 2012, 18, 10848-10856.	1.7	138
70	Introducing a photo-switchable azo-functionality inside Cr-MIL-101-NH2 by covalent post-synthetic modification. Dalton Transactions, 2012, 41, 8690.	1.6	138
71	Hydrophobic Metalâ€“Organic Frameworks. Advanced Materials, 2019, 31, e1900820.	11.1	138
72	Confinement of CdSe Nanoparticles Inside MCM-41. Advanced Materials, 2000, 12, 1050-1055.	11.1	134

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73	Iron Metalâ€“Organic Frameworks MILâ€88B and NH₂â€MILâ€88B for the Loading and Delivery of the Gasotransmitter Carbon Monoxide. Chemistry - A European Journal, 2013, 19, 6785-6790.	1.7	134
74	Selfâ€Directed Localization of ZIFâ€8 Thin Film Formation by Conversion of ZnO Nanolayers. Advanced Functional Materials, 2014, 24, 4804-4811.	7.8	134
75	Synthesis and Characterization of New Ce(IV)-MOFs Exhibiting Various Framework Topologies. Crystal Growth and Design, 2017, 17, 1125-1131.	1.4	133
76	Cyclopentadiene Based Low-Valent Group 13 Metal Compounds: Ligands in Coordination Chemistry and Link between Metal Rich Molecules and Intermetallic Materials. Chemical Reviews, 2012, 112, 3136-3170.	23.0	131
77	[(Î·5-C5Me5)Alï£¿Fe(CO)4]â€”Synthesis, Structure, and Bonding. Angewandte Chemie International Edition in English, 1997, 36, 70-72.	4.4	129
78	Flexibility and Sorption Selectivity in Rigid Metalâ€“Organic Frameworks: The Impact of Etherâ€Functionalised Linkers. Chemistry - A European Journal, 2010, 16, 14296-14306.	1.7	128
79	Layer-by-Layer Growth of Oriented Metal Organic Polymers on a Functionalized Organic Surface. Langmuir, 2007, 23, 7440-7442.	1.6	127
80	Bonding and Orientation in Self-Assembled Monolayers of Oligophenyldithiols on Au Substrates. Langmuir, 2002, 18, 7766-7769.	1.6	126
81	Surface-mounted metal-organic frameworks for applications in sensing and separation. Microporous and Mesoporous Materials, 2015, 216, 200-215.	2.2	126
82	Binary Janus Porous Coordination Polymer Coatings for Sensor Devices with Tunable Analyte Affinity. Angewandte Chemie - International Edition, 2013, 52, 341-345.	7.2	125
83	Unprecedented High Oxygen Evolution Activity of Electrocatalysts Derived from Surface-Mounted Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 5926-5933.	6.6	125
84	Chemistry of SURMOFs: Layer-Selective Installation of Functional Groups and Post-synthetic Covalent Modification Probed by Fluorescence Microscopy. Journal of the American Chemical Society, 2011, 133, 1734-1737.	6.6	122
85	Metalâ€“organic frameworks as potential shock absorbers: the case of the highly flexible MIL-53(Al). Chemical Communications, 2014, 50, 9462-9464.	2.2	122
86	Covalent Grapheneâ€MOF Hybrids for Highâ€Performance Asymmetric Supercapacitors. Advanced Materials, 2021, 33, e2004560.	11.1	121
87	New Synthetic Routes to More Active Cu/ZnO Catalysts Used for Methanol Synthesis. Catalysis Letters, 2004, 92, 49-52.	1.4	120
88	Pd@MOF-5: limitations of gas-phase infiltration and solution impregnation of [Zn4O(bdc)3] (MOF-5) with metalâ€“organic palladium precursors for loading with Pd nanoparticles. Journal of Materials Chemistry, 2009, 19, 1314.	6.7	120
89	AlCp* as a Directing Ligand: Cï£¿H and Sïï£¿H Bond Activation at the Reactive Intermediate[Ni(AlCp*)3]. Angewandte Chemie - International Edition, 2004, 43, 2299-2302.	7.2	119
90	GaN@ZIF-8: Selective Formation of Gallium Nitride Quantum Dots inside a Zinc Methylimidazolate Framework. Journal of the American Chemical Society, 2011, 133, 16370-16373.	6.6	119

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91	Solvothermal growth of a ruthenium metalâ€“organic framework featuring HKUST-1 structure type as thin films on oxide surfaces. Chemical Communications, 2011, 47, 8509.	2.2	118
92	Shapeâ€Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithiumâ€Ion Battery Electrodes. Advanced Functional Materials, 2019, 29, 1902539.	7.8	118
93	A Facile â€œGreenâ€•Route for Scalable Batch Production and Continuous Synthesis of Zirconium MOFs. European Journal of Inorganic Chemistry, 2016, 2016, 4490-4498.	1.0	117
94	Intercalation in Layered Metalâ€“Organic Frameworks: Reversible Inclusion of an Extended Ï€-System. Journal of the American Chemical Society, 2011, 133, 8158-8161.	6.6	116
95	Transition Metal Coordinated Al(X)L2and Ga(X)L2Fragmentsâ€. Journal of the American Chemical Society, 1998, 120, 1237-1248.	6.6	114
96	MOF Processing by Electrospinning for Functional Textiles. Advanced Engineering Materials, 2011, 13, 356-360.	1.6	112
97	Direct X-ray and electron-beam lithography of halogenated zeolitic imidazolate frameworks. Nature Materials, 2021, 20, 93-99.	13.3	112
98	Synthesis of CdSe nanoparticles using various organometallic cadmium precursors. Journal of Materials Chemistry, 2001, 11, 3197-3201.	6.7	108
99	A non-aqueous organometallic route to highly monodispersed copper nanoparticles using [Cu(OCH(Me)CH2NMe2)2]. Chemical Communications, 2002, , 68-69.	2.2	108
100	Transmission electron microscopy on metalâ€“organic frameworks â€“ a review. Journal of Materials Chemistry A, 2017, 5, 14969-14989.	5.2	108
101	Nanocrystals of [Cu3(btc)2] (HKUST-1): a combined time-resolved light scattering and scanning electron microscopy study. Chemical Communications, 2009, , 1031.	2.2	106
102	Au@MOFâ€5 and Au/MO_x@MOFâ€5 (M = Zn, Ti; x = 1, 2): Preparation and Microstructural Characterisation. European Journal of Inorganic Chemistry, 2011, 2011, 1876-1887.	1.0	105
103	Local transformation of ZIF-8 powders and coatings into ZnO nanorods for photocatalytic application. Nanoscale, 2014, 6, 2056.	2.8	105
104	Porphyrinic MOF Film for Multifaceted Electrochemical Sensing. Angewandte Chemie - International Edition, 2021, 60, 20551-20557.	7.2	105
105	Hafnium oxide thin film grown by ALD: An XPS study. Surface Science Spectra, 2007, 14, 34-40.	0.3	102
106	Hollow Zn/Co Zeolitic Imidazolate Framework (ZIF) and Yolkâ€“Shell Metal@Zn/Co ZIF Nanostructures. Chemistry - A European Journal, 2016, 22, 3304-3311.	1.7	102
107	Reversible Optical Writing and Data Storage in an Anthraceneâ€Loaded Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2019, 58, 2423-2427.	7.2	102
108	ZnO@ZIF-8: stabilization of quantum confined ZnO nanoparticles by a zinc methylimidazolate framework and their surface structural characterization probed by CO2 adsorption. Journal of Materials Chemistry, 2011, 21, 5907.	6.7	101

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109	The Clusters [Ma(ECp*)b] (M=Pd, Pt; E=Al, Ga, In): Structures, Fluxionality, and Ligand Exchange Reactions. Chemistry - A European Journal, 2005, 11, 1636-1646.	1.7	100
110	Optimizing the Size of Platinum Nanoparticles for Enhanced Mass Activity in the Electrochemical Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 9596-9600.	7.2	100
111	MOFs for Electrocatalysis: From Serendipity to Design Strategies. Small Methods, 2019, 3, 1800415.	4.6	100
112	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surfaceâ€Mounted Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 5837-5843.	7.2	99
113	Liquid exfoliation of alkyl-ether functionalised layered metalâ€“organic frameworks to nanosheets. Chemical Communications, 2016, 52, 10474-10477.	2.2	98
114	A Method for the Preparation of Highly Porous, Nanosized Crystals of Isoreticular Metalâ^'Organic Frameworks. Crystal Growth and Design, 2011, 11, 185-189.	1.4	97
115	Turning MIL-53(Al) Redox-Active by Functionalization of the Bridging OH-Group with 1,1â€²-Ferrocenediyl-Dimethylsilane. Journal of the American Chemical Society, 2009, 131, 9644-9645.	6.6	96
116	Quantum-Confined Gallium Nitride in MCM-41. Advanced Materials, 1999, 11, 1444-1448.	11.1	95
117	Multiple bonds between transition metals and main-group elements. 72. Organorhenium imido complexes: syntheses, structure, and reactivity. Organometallics, 1990, 9, 489-496.	1.1	94
118	Characterization of interfacial water in MOF-5 (Zn4(O)(BDC)3)â€”a combined spectroscopic and theoretical study. Physical Chemistry Chemical Physics, 2008, 10, 4732.	1.3	94
119	Reductive elimination: a pathway to low-valent aluminium species. Chemical Communications, 2013, 49, 2858.	2.2	94
120	Tandem MOF-Based Photonic Crystals for Enhanced Analyte-Specific Optical Detection. Chemistry of Materials, 2015, 27, 1961-1970.	3.2	94
121	Fabrication of a CO2-selective membrane by stepwise liquid-phase deposition of an alkylether functionalized pillared-layered metal-organic framework [Cu2L2P]n on a macroporous support. Microporous and Mesoporous Materials, 2012, 150, 76-82.	2.2	93
122	Control of structural flexibility of layered-pillared metal-organic frameworks anchored at surfaces. Nature Communications, 2019, 10, 346.	5.8	93
123	Knoevenagel condensation reaction catalysed by Al-MOFs with CAU-1 and CAU-10-type structures. CrystEngComm, 2017, 19, 4187-4193.	1.3	92
124	Ultrathin 2D Cobalt Zeoliteâ€Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution. Advanced Science, 2018, 5, 1801029.	5.6	92
125	A New Class of Lasing Materials: Intrinsic Stimulated Emission from Nonlinear Optically Active Metalâ€“Organic Frameworks. Advanced Materials, 2017, 29, 1605637.	11.1	91
126	Oxygen Evolution Electrocatalysis of a Single MOFâ€Derived Composite Nanoparticle on the Tip of a Nanoelectrode. Angewandte Chemie - International Edition, 2019, 58, 8927-8931.	7.2	91

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127	Metalâ€“organic frameworks in Germany: From synthesis to function. Coordination Chemistry Reviews, 2019, 380, 378-418.	9.5	91
128	Urchin-like ZnO nanorod arrays for gas sensing applications. CrystEngComm, 2010, 12, 3419.	1.3	90
129	Functionalized Coordination Space in Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2008, 47, 8164-8168.	7.2	89
130	Gas-phase loading of [Zn4O(btb)2] (MOF-177) with organometallic CVD-precursors: inclusion compounds of the type [LnM]a@MOF-177 and the formation of Cu and Pd nanoparticles inside MOF-177. Journal of Materials Chemistry, 2008, 18, 5274.	6.7	89
131	Highly Oriented ZnO Nanorod Arrays by a Novel Plasma Chemical Vapor Deposition Process. Crystal Growth and Design, 2010, 10, 2011-2018.	1.4	89
132	Metalâ€“Organic Framework Thin Films: Crystallite Orientation Dependent Adsorption. Angewandte Chemie - International Edition, 2013, 52, 3402-3405.	7.2	89
133	Unravelling the Redoxâ€catalytic Behavior of Ce⁴⁺ Metalâ€“Organic Frameworks by Xâ€ray Absorption Spectroscopy. ChemPhysChem, 2018, 19, 373-378.	1.0	89
134	Porous ZnO/Carbon nanocomposites derived from metal organic frameworks for highly efficient photocatalytic applications: A correlational study. Carbon, 2019, 146, 348-363.	5.4	89
135	Nanometer-sized titania hosted inside MOF-5. Chemical Communications, 2009, , 119-121.	2.2	87
136	Enhancing the Water Stability of Alâ€MILâ€101â€NH₂ via Postsynthetic Modification. Chemistry - A European Journal, 2015, 21, 314-323.	1.7	87
137	Triazidogallium and Derivatives: New Precursors to Thin Films and Nanoparticles of GaN. Chemistry - A European Journal, 1996, 2, 1353-1358.	1.7	86
138	Homochiral metalâ€“organic frameworks for enantioseparation. Chemical Society Reviews, 2021, 50, 5706-5745.	18.7	86
139	Detonations of Gallium Azides:Â A Simple Route to Hexagonal GaN Nanocrystals. Journal of the American Chemical Society, 1998, 120, 3512-3513.	6.6	85
140	Twelve Oneâ€Electron Ligands Coordinating One Metal Center: Structure and Bonding of [Mo(ZnCH₃)₉(ZnCp*)₃]. Angewandte Chemie - International Edition, 2008, 47, 9150-9154.	7.2	85
141	Bifunktionale Sauerstoffelektroden durch Einbettung von Co@Co₃O₄â€Nanopartikeln in CNTâ€gekoppelte Stickstoffâ€dotierte Kohlenstoffpolyeder. Angewandte Chemie, 2016, 128, 4155-4160.	1.6	85
142	[(Î·⁵â€Cp*)Alï£¿Fe(CO)₄] â€“ Synthese, Struktur, BindungsverhÃltnisse. Angewandte Chemie, 1997, 109, 95-97.	1.6	84
143	Highâ€Throughput and Timeâ€Resolved Energyâ€Dispersive Xâ€Ray Diffraction (EDXRD) Study of the Formation of CAUâ€1â€(OH)₂: Microwave and Conventional Heating. Chemistry - A European Journal, 2011, 17, 6462-6468.	1.7	84
144	Lowâ€Temperature Atomic Layer Deposition of Copper Metal Thin Films: Selfâ€Limiting Surface Reaction of Copper Dimethylaminoâ€2â€propoxide with Diethylzinc. Angewandte Chemie - International Edition, 2009, 48, 4536-4539.	7.2	83

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145	Synthesis of Cu, Zn and Cu/Zn brass alloy nanoparticles from metal amidinate precursors in ionic liquids or propylene carbonate with relevance to methanol synthesis. Nanoscale, 2014, 6, 3116.	2.8	82
146	Tuning the Mechanical Response of Metalâ€“Organic Frameworks by Defect Engineering. Journal of the American Chemical Society, 2018, 140, 11581-11584.	6.6	82
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