

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	Open Framework Material Based Thin Films: Electrochemical Catalysis and State-of-the-Art Technologies. <i>Advanced Energy Materials</i> , 2022, 12, 2003499.	10.2	25
2	Metal-organic framework derived multi-functionalized and co-doped TiO ₂ /C nanocomposites for excellent visible-light photocatalysis. <i>Journal of Materials Science and Technology</i> , 2022, 101, 49-59.	5.6	29
3	Vectorial Catalysis in Surface-Anchored Nanometer-Sized Metal-Organic Frameworks-Based Microfluidic Devices. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	5
4	Hierarchical porous metal-organic framework materials for efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2751-2785.	5.2	48
5	Enhanced catalytic performance of palladium nanoparticles in MOFs by channel engineering. <i>Cell Reports Physical Science</i> , 2022, 3, 100757.	2.8	6
6	Avoiding Pyrolysis and Calcination: Advances in the Benign Routes Leading to MOF-Derived Electrocatalysts. <i>ChemElectroChem</i> , 2022, 9, .	1.7	12
7	Frontispiz: Vektorielle Katalyse mit oberflächenverankerten nano-metallorganischen Gerüsten in mikrofluidischen Reaktoren. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
8	Frontispiece: Vectorial Catalysis in Surface-Anchored Nanometer-Sized Metal-Organic Frameworks-Based Microfluidic Devices. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	1
9	A combinatorial coordination-modulated approach to all-hydrocarbon-ligated intermetallic clusters. <i>Chemical Communications</i> , 2022, 58, 4332-4335.	2.2	9
10	Dual In Situ Laser Techniques Underpin the Role of Cations in Impacting Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	16
11	Cover Feature: Avoiding Pyrolysis and Calcination: Advances in the Benign Routes Leading to MOF-Derived Electrocatalysts (<i>ChemElectroChem</i> 7/2022). <i>ChemElectroChem</i> , 2022, 9, .	1.7	0
12	A Peryleneimide-Based Zinc-Coordination Polymer for Photosensitized Singlet-Oxygen Generation. <i>Energies</i> , 2022, 15, 2437.	1.6	1
13	Dual In Situ Laser Techniques Underpin the Role of Cations in Impacting Electrocatalysts. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	7
14	Recent advances of multiphoton absorption in metal-organic frameworks. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6912-6934.	2.7	12
15	Operando Study of Structure Degradation in Solid-State Dye-Sensitized Solar Cells with a TiO ₂ Photoanode Having Ordered Mesopore Arrays. <i>Solar Rrl</i> , 2022, 6, .	3.1	4
16	Cyclodextrin metal-organic frameworks and derivatives: recent developments and applications. <i>Chemical Society Reviews</i> , 2022, 51, 5175-5213.	18.7	44
17	Porphyritic MOF derived Single-atom electrocatalyst enables methanol oxidation. <i>Chemical Engineering Journal</i> , 2022, 449, 137888.	6.6	13
18	Configurational Entropy Driven High-Pressure Behaviour of a Flexible Metal-Organic Framework (MOF). <i>Angewandte Chemie</i> , 2021, 133, 800-806.	1.6	9

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19	Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2021, 33, e2004560.	11.1	121
20	Exploitation of Intrinsic Confinement Effects of MOFs in Catalysis. <i>ChemCatChem</i> , 2021, 13, 1683-1691.	1.8	43
21	A nitrophenyl-carbazole based push-pull linker as a building block for non-linear optical active coordination polymers: A structural and photophysical study. <i>Dyes and Pigments</i> , 2021, 186, 109012.	2.0	8
22	Surface functionalized N-C-TiO ₂ /C nanocomposites derived from metal-organic framework in water vapour for enhanced photocatalytic H ₂ generation. <i>Journal of Energy Chemistry</i> , 2021, 57, 485-495.	7.1	38
23	Direct X-ray and electron-beam lithography of halogenated zeolitic imidazolate frameworks. <i>Nature Materials</i> , 2021, 20, 93-99.	13.3	112
24	Steric and Electronic Effects of Phosphane Additives on the Catalytic Performance of Colloidal Palladium Nanoparticles in the Semi-Hydrogenation of Alkynes. <i>ChemCatChem</i> , 2021, 13, 227-234.	1.8	11
25	Configurational Entropy Driven High-Pressure Behaviour of a Flexible Metal-Organic Framework (MOF). <i>Angewandte Chemie - International Edition</i> , 2021, 60, 787-793.	7.2	30
26	Homochiral metal-organic frameworks for enantioseparation. <i>Chemical Society Reviews</i> , 2021, 50, 5706-5745.	18.7	86
27	Entrapped Molecular Photocatalyst and Photosensitizer in Metal-Organic Framework Nanoreactors for Enhanced Solar CO ₂ Reduction. <i>ACS Catalysis</i> , 2021, 11, 871-882.	5.5	65
28	Intermetallic phases meet intermetalloid clusters. <i>Chemical Society Reviews</i> , 2021, 50, 8496-8510.	18.7	16
29	Scrutinizing ligand exchange reactions in the formation of the precious group metal-organic framework Ru ^{II} -HKUST-1: the impact of diruthenium tetracarboxylate precursor and modulator choice. <i>Dalton Transactions</i> , 2021, 50, 5226-5235.	1.6	2
30	Bimetal-organic framework derived multi-heterostructured TiO ₂ /Cu _x O/C nanocomposites with superior photocatalytic H ₂ generation performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4103-4116.	5.2	37
31	Enabling LIFDI-MS measurements of highly air sensitive organometallic compounds: a combined MS/glovebox technique. <i>Dalton Transactions</i> , 2021, 50, 9031-9036.	1.6	27
32	Understanding entrapped molecular photosystem and metal-organic framework synergy for improved solar fuel production. <i>Faraday Discussions</i> , 2021, 231, 281-297.	1.6	18
33	Nanometallurgy in solution: organometallic synthesis of intermetallic Pd-Ga colloids and their activity in semi-hydrogenation catalysis. <i>Nanoscale</i> , 2021, 13, 15038-15047.	2.8	1
34	Asymmetric Supercapacitors: Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors (<i>Adv. Mater.</i> 4/2021). <i>Advanced Materials</i> , 2021, 33, 2170028.	11.1	8
35	In Situ Tracking of Wetting-Front Transient Heat Release on a Surface-Mounted Metal-Organic Framework. <i>Advanced Materials</i> , 2021, 33, 2006980.	11.1	7
36	Two-Coordinate, Nonlinear Vanadium(II) and Chromium(II) Complexes of the Silylamide Ligand-N(SiMePh ₂) ₂ : Characterization and Confirmation of Orbitally Quenched Magnetic Moments in Complexes with Sub-d ⁵ Electron Configurations. <i>Inorganic Chemistry</i> , 2021, 60, 4108-4115.	1.9	8

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37	An Investigation into the Intrinsic Peroxidase-Like Activity of Fe-MOFs and Fe-MOFs/Polymer Composites. <i>Advanced Materials Technologies</i> , 2021, 6, 2001048.	3.0	27
38	Charge-Transfer-Induced Electrical Conductivity in a Tetrathiafulvalene-Based Metal-Organic Framework. <i>Chemistry of Materials</i> , 2021, 33, 2532-2542.	3.2	19
39	Enhanced Hydrogenation Catalytic Activity of Ruthenium Nanoparticles by Solid-Solution Alloying with Molybdenum. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1186-1189.	1.0	3
40	Molecular Oxygen Activation by Redox-Switchable Anthraquinone-Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2021, 60, 4676-4682.	1.9	5
41	Tuning the Properties of MOF-808 via Defect Engineering and Metal Nanoparticle Encapsulation. <i>Chemistry - A European Journal</i> , 2021, 27, 6804-6814.	1.7	46
42	An in situ investigation of the thermal decomposition of metal-organic framework NH ₂ -MIL-125 (Ti). <i>Microporous and Mesoporous Materials</i> , 2021, 316, 110957.	2.2	43
43	Metal-Organic Frameworks: In Situ Tracking of Wetting-Front Transient Heat Release on a Surface-Mounted Metal-Organic Framework (Adv. Mater. 14/2021). <i>Advanced Materials</i> , 2021, 33, 2170109.	11.1	0
44	Ultrafine TiO ₂ Nanoparticle Supported Nitrogen-Rich Graphitic Porous Carbon as an Efficient Anode Material for Potassium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100042.	2.8	8
45	High-Quality Thin Films of UiO-66-NH ₂ by Coordination Modulated Layer-by-Layer Liquid Phase Epitaxy. <i>Chemistry - A European Journal</i> , 2021, 27, 8509-8516.	1.7	12
46	Surface-Mounted Metal-Organic Frameworks: Past, Present, and Future Perspectives. <i>Langmuir</i> , 2021, 37, 6847-6863.	1.6	32
47	Wirt-Gast-Wechselwirkungen in einer Serie isoretikulärer Metallorganischer Gerüststrukturen für molekulare photokatalytische CO ₂ -Reduktion. <i>Angewandte Chemie</i> , 2021, 133, 17998-18004.	1.6	13
48	Host-Guest Interactions in a Metal-Organic Framework Isoreticular Series for Molecular Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17854-17860.	7.2	69
49	Structural studies of ligand stabilized Ni/Ga clusters by means of vibrational spectroscopy and theoretical calculations. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2317-2337.	1.2	4
50	Porphyrischer MOF-Film für vielfältige elektrochemische Sensorik. <i>Angewandte Chemie</i> , 2021, 133, 20714-20721.	1.6	5
51	Porphyric MOF Film for Multifaceted Electrochemical Sensing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20551-20557.	7.2	105
52	Frontispiz: Wirt-Gast-Wechselwirkungen in einer Serie isoretikulärer Metallorganischer Gerüststrukturen für molekulare photokatalytische CO ₂ -Reduktion. <i>Angewandte Chemie</i> , 2021, 133, .	1.6	0
53	Frontispiece: Host-Guest Interactions in a Metal-Organic Framework Isoreticular Series for Molecular Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	1
54	Metamorphosis of Heterostructured Surface-Mounted Metal-Organic Frameworks Yielding Record Oxygen Evolution Mass Activities. <i>Advanced Materials</i> , 2021, 33, e2103218.	11.1	43

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55	Hydrophobicity: a key factor en route to applications of metal-organic frameworks. Trends in Chemistry, 2021, 3, 911-925.	4.4	14
56	A multifunctional covalently linked graphene-MOF hybrid as an effective chemiresistive gas sensor. Journal of Materials Chemistry A, 2021, 9, 17434-17441.	5.2	26
57	Exploring Cu/Al cluster growth and reactivity: from embryonic building blocks to intermetalloid, open-shell superatoms. Chemical Science, 2021, 12, 6588-6599.	3.7	18
58	From phosphine-stabilised towards naked Au ₈ clusters through ZIF-8 encapsulation. Molecular Systems Design and Engineering, 2021, 6, 876-882.	1.7	6
59	Two-dimensional MOF-based liquid marbles: surface energy calculations and efficient oil-water separation using a ZIF-9-III@PVDF membrane. Journal of Materials Chemistry A, 2021, 9, 23651-23659.	5.2	20
60	Defect engineering: an effective tool for enhancing the catalytic performance of copper-MOFs for the click reaction and the A ₃ coupling. Catalysis Science and Technology, 2021, 11, 2396-2402.	2.1	20
61	Innen-Äcktitelbild: Configurational Entropy Driven High-Pressure Behaviour of a Flexible Metal-Organic Framework (MOF) (Angew. Chem. 2/2021). Angewandte Chemie, 2021, 133, 1047-1047.	1.6	2
62	Defect-Engineered Metal-Organic Frameworks: A Thorough Characterization of Active Sites Using CO as a Probe Molecule. Journal of Physical Chemistry C, 2021, 125, 593-601.	1.5	15
63	A superhydrophilic metal-organic framework thin film for enhancing capillary-driven boiling heat transfer. Journal of Materials Chemistry A, 2021, 9, 25480-25487.	5.2	15
64	Emerging MXene@Metal-Organic Framework Hybrids: Design Strategies toward Versatile Applications. ACS Nano, 2021, 15, 18742-18776.	7.3	81
65	Introducing Benzene-1,3,5-tri(dithiocarboxylate) as a Multidentate Linker in Coordination Chemistry. Inorganic Chemistry, 2021, 60, 19242-19252.	1.9	2
66	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surface-Mounted Metal-Organic Frameworks. Angewandte Chemie, 2020, 132, 5886-5892.	1.6	16
67	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surface-Mounted Metal-Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 5837-5843.	7.2	99
68	Combined Experimental and Theoretical Study on Hampered Phosphine Dissociation in Heteroleptic Ni/Zn Complexes. Inorganic Chemistry, 2020, 59, 514-522.	1.9	6
69	Defect Creation in Surface-Mounted Metal-Organic Framework Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 2655-2661.	4.0	18
70	Scrutinizing the Pore Chemistry and the Importance of Cu(I) Defects in TCNQ-Loaded Cu ₃ (BTC) ₂ by a Multitechnique Spectroscopic Approach. ACS Applied Materials & Interfaces, 2020, 12, 1024-1035.	4.0	17
71	The chemistry of Ce-based metal-organic frameworks. Dalton Transactions, 2020, 49, 16551-16586.	1.6	76
72	Thermal defect engineering of precious group metal-organic frameworks: impact on the catalytic cyclopropanation reaction. Catalysis Science and Technology, 2020, 10, 8077-8085.	2.1	4

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73	Hierarchical Porous Graphene-iron Carbide Hybrid Derived From Functionalized Graphene-Based Metal-Organic Gel as Efficient Electrochemical Dopamine Sensor. <i>Frontiers in Chemistry</i> , 2020, 8, 544.	1.8	6
74	Coordinated Water as New Binding Sites for the Separation of Light Hydrocarbons in Metal-Organic Frameworks with Open Metal Sites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9448-9456.	4.0	11
75	Porphyrin based metal-organic framework films: nucleation and growth. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25941-25950.	5.2	24
76	MHP@MOF Hybrids: Metal Halide Perovskite@Metal-Organic Framework Hybrids: Synthesis, Design, Properties, and Applications (Small 47/2020). <i>Small</i> , 2020, 16, 2070258.	5.2	1
77	Selective Positioning of Nanosized Metal-Organic Framework Particles at Patterned Substrate Surfaces. <i>Chemistry of Materials</i> , 2020, 32, 9954-9963.	3.2	10
78	Dual-Function HKUST-1: Templating and Catalyzing Formation of Graphitic Carbon Nitride Quantum Dots Under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21499-21504.	7.2	22
79	Dual-Function HKUST-1: Templating and Catalyzing Formation of Graphitic Carbon Nitride Quantum Dots Under Mild Conditions. <i>Angewandte Chemie</i> , 2020, 132, 21683-21688.	1.6	6
80	Defect Engineering of Copper Paddlewheel-Based Metal-Organic Frameworks of Type NOTT-100: Implementing Truncated Linkers and Its Effect on Catalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37993-38002.	4.0	30
81	Thermal Defect Engineering of Precious Group Metal-Organic Frameworks: A Case Study on Ru/Rh-HKUST-1 Analogues. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40635-40647.	4.0	24
82	Metal Halide Perovskite@Metal-Organic Framework Hybrids: Synthesis, Design, Properties, and Applications. <i>Small</i> , 2020, 16, e2004891.	5.2	46
83	Influence of Thermal and Mechanical Stimuli on the Behavior of Al-CAU-13 Metal-Organic Framework. <i>Nanomaterials</i> , 2020, 10, 1698.	1.9	3
84	Contrasting Structure and Bonding of a Copper-Rich and a Zinc-Rich Intermetallic Cu/Zn Cluster. <i>Inorganic Chemistry</i> , 2020, 59, 9077-9085.	1.9	7
85	The synergistic effect of heterostructured dissimilar metal-organic framework thin films on adsorption properties. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12990-12995.	5.2	15
86	Postsynthetic Framework Contraction Enhances the Two-Photon Absorption Properties of Pillar-Layered Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 5682-5690.	3.2	15
87	Formation of a Propeller-Shaped Ni ₄ Ga ₃ Cluster Supported by Transmetalation of Cp* from Ga to Ni. <i>Inorganic Chemistry</i> , 2020, 59, 5086-5092.	1.9	9
88	Charting the Metal-Dependent High-Pressure Stability of Bimetallic UiO-66 Materials. , 2020, 2, 438-445.		21
89	Synthesis of plasmonic Fe/Al nanoparticles in ionic liquids. <i>RSC Advances</i> , 2020, 10, 12891-12899.	1.7	14
90	Inter-conversion between zeolitic imidazolate frameworks: a dissolution-recrystallization process. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13710-13717.	5.2	10

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91	Substantial Turnover Frequency Enhancement of MOF Catalysts by Crystallite Downsizing Combined with Surface Anchoring. <i>ACS Catalysis</i> , 2020, 10, 3203-3211.	5.5	41
92	Defect-Engineered Ruthenium MOFs as Versatile Heterogeneous Hydrogenation Catalysts. <i>ChemCatChem</i> , 2020, 12, 1720-1725.	1.8	29
93	Bimetallic hexanuclear clusters in Ce/Zr-Uio-66 MOFs: <i>in situ</i> FTIR spectroscopy and modelling insights. <i>Dalton Transactions</i> , 2020, 49, 5794-5797.	1.6	14
94	Recent Approaches to Design Electrocatalysts Based on Metal-Organic Frameworks and Their Derivatives. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3474-3501.	1.7	34
95	Generation and Stabilization of Small Platinum Clusters Pt ₁₂ Inside a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 13962-13969.	6.6	47
96	Metal-Organic Frameworks: Hydrophobic Metal-Organic Frameworks (<i>Adv. Mater.</i> 32/2019). <i>Advanced Materials</i> , 2019, 31, 1970230.	11.1	40
97	Increasing Alkyl Chain Length in a Series of Layered Metal-Organic Frameworks Aids Ultrasonic Exfoliation to Form Nanosheets. <i>Inorganic Chemistry</i> , 2019, 58, 10837-10845.	1.9	23
98	A metal-organic framework for efficient water-based ultra-low-temperature-driven cooling. <i>Nature Communications</i> , 2019, 10, 3025.	5.8	145
99	Shape-Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithium-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , 2019, 29, 1902539.	7.8	118
100	All-zinc coordinated nickel-complexes as molecular mimics for NiZn catalyst surfaces, a density functional theory study. <i>Dalton Transactions</i> , 2019, 48, 11743-11748.	1.6	11
101	Synthesis of nickel/gallium nanoalloys using a dual-source approach in 1-alkyl-3-methylimidazole ionic liquids. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1754-1767.	1.5	2
102	Control of structural flexibility of layered-pillared metal-organic frameworks anchored at surfaces. <i>Nature Communications</i> , 2019, 10, 346.	5.8	93
103	Discovery of Polyoxo-Noble-Metalate-Based Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 3385-3389.	6.6	43
104	Porous ZnO/Carbon nanocomposites derived from metal organic frameworks for highly efficient photocatalytic applications: A correlational study. <i>Carbon</i> , 2019, 146, 348-363.	5.4	89
105	Mixed precious-group metal-organic frameworks: a case study of the HKUST-1 analogue [Ru _x Rh _{3-x} (BTC) ₂]. <i>Dalton Transactions</i> , 2019, 48, 12031-12039.	1.6	31
106	Regulating the size and spatial distribution of Pd nanoparticles supported by the defect engineered metal-organic framework HKUST-1 and applied in the aerobic oxidation of cinnamyl alcohol. <i>Catalysis Science and Technology</i> , 2019, 9, 3703-3710.	2.1	21
107	Controlling Multiphoton Absorption Efficiency by Chromophore Packing in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 11594-11602.	6.6	56
108	Tuning the Negative Thermal Expansion Behavior of the Metal-Organic Framework Cu ₃ BTC ₂ by Retrofitting. <i>Journal of the American Chemical Society</i> , 2019, 141, 10504-10509.	6.6	57

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109	Hydrophobic Metal-Organic Frameworks. <i>Advanced Materials</i> , 2019, 31, e1900820.	11.1	138
110	Sauerstoffevolutionselektrokatalyse eines einzelnen MOF-basierten Kompositnanopartikels an der Spitze einer Nanoelektrode. <i>Angewandte Chemie</i> , 2019, 131, 9021-9026.	1.6	17
111	Optimierung der Größe von Platin-Nanopartikeln für eine erhöhte Massenaktivität der elektrochemischen Sauerstoffreduktion. <i>Angewandte Chemie</i> , 2019, 131, 9697-9702.	1.6	9
112	Optimizing the Size of Platinum Nanoparticles for Enhanced Mass Activity in the Electrochemical Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9596-9600.	7.2	100
113	Oxygen Evolution Electrocatalysis of a Single MOF-Derived Composite Nanoparticle on the Tip of a Nanoelectrode. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8927-8931.	7.2	91
114	Unprecedented High Oxygen Evolution Activity of Electrocatalysts Derived from Surface-Mounted Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 5926-5933.	6.6	125
115	Metal-Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Li-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1900532.	7.8	141
116	Flexibility control in alkyl ether-functionalized pillared-layered MOFs by a Cu/Zn mixed metal approach. <i>Dalton Transactions</i> , 2019, 48, 6564-6570.	1.6	22
117	Bridging the Green Gap: Metal-Organic Framework Heteromultilayers Assembled from Porphyrinic Linkers Identified by Using Computational Screening. <i>Chemistry - A European Journal</i> , 2019, 25, 7847-7851.	1.7	23
118	Network topology and cavity confinement-controlled diastereoselectivity in cyclopropanation reactions catalyzed by porphyrin-based MOFs. <i>Catalysis Science and Technology</i> , 2019, 9, 6452-6459.	2.1	22
119	A porous and redox active ferrocenedicarboxylic acid based aluminium MOF with a MIL-53 architecture. <i>Dalton Transactions</i> , 2019, 48, 16737-16743.	1.6	12
120	Micro-spectroscopy of HKUST-1 metal-organic framework crystals loaded with tetracyanoquinodimethane: effects of water on host-guest chemistry and electrical conductivity. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25678-25689.	1.3	15
121	Bimetallic Co/Al nanoparticles in an ionic liquid: synthesis and application in alkyne hydrogenation. <i>New Journal of Chemistry</i> , 2019, 43, 16583-16594.	1.4	15
122	Metal-organic frameworks in Germany: From synthesis to function. <i>Coordination Chemistry Reviews</i> , 2019, 380, 378-418.	9.5	91
123	Probing Local Structural Changes at Cu ²⁺ in a Flexible Mixed-Metal Metal-Organic Framework by <i>In Situ</i> Electron Paramagnetic Resonance during CO ₂ Ad- and Desorption. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2940-2952.	1.5	24
124	Reversible Optical Writing and Data Storage in an Anthracene-Loaded Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2423-2427.	7.2	102
125	Highly Porous Nanocrystalline UiO-66 Thin Films via Coordination Modulation Controlled Step-by-Step Liquid-Phase Growth. <i>Crystal Growth and Design</i> , 2019, 19, 1738-1747.	1.4	18
126	MOFs for Electrocatalysis: From Serendipity to Design Strategies. <i>Small Methods</i> , 2019, 3, 1800415.	4.6	100

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127	Ultrathin Hierarchical Porous Carbon Nanosheets for High-Performance Supercapacitors and Redox Electrolyte Energy Storage. <i>Advanced Materials</i> , 2018, 30, e1705789.	11.1	309
128	Unveiling BiVO ₄ nanorods as a novel anode material for high performance lithium ion capacitors: beyond intercalation strategies. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6096-6106.	5.2	78
129	Optimisation of synthesis conditions for UiO-66-CO ₂ H towards scale-up and its vapour sorption properties. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 365-370.	1.9	16
130	Different Breathing Mechanisms in Flexible Pillared-Layered Metal-Organic Frameworks: Impact of the Metal Center. <i>Chemistry of Materials</i> , 2018, 30, 1667-1676.	3.2	76
131	Chemistry of Hume-Rothery inspired organometallics: Selective functionalization of [M(ZnCp*) ₄ (ZnCH ₃) ₄] (M = Ni, Pd, Pt) with terminal alkynes to yield [M(ZnCp*) ₄ (ZnCCSiPr) ₄]. <i>Journal of Organometallic Chemistry</i> , 2018, 860, 78-84.	0.8	10
132	Defective Metal-Organic Frameworks. <i>Advanced Materials</i> , 2018, 30, e1704501.	11.1	427
133	Metal-Organic Frameworks as Catalyst Supports: Influence of Lattice Disorder on Metal Nanoparticle Formation. <i>Chemistry - A European Journal</i> , 2018, 24, 7498-7506.	1.7	29
134	Unravelling the Redox-catalytic Behavior of Ce ⁴⁺ Metal-Organic Frameworks by X-ray Absorption Spectroscopy. <i>ChemPhysChem</i> , 2018, 19, 373-378.	1.0	89
135	Green synthesis of a new layered aluminium citraconate: crystal structures, intercalation behaviour towards H ₂ O and <i>in situ</i> PXRD studies of its crystallisation. <i>Dalton Transactions</i> , 2018, 47, 215-223.	1.6	12
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