Roland A Fischer

List of Publications by Year in Descending Order

684 papers	41,969 citations	93 h-index	176 g-index
744 ext. papers	46,459 ext. citations	8.1 avg, IF	7.85 L-index

#	Paper	IF	Citations
684	Hierarchical porous metal–organic framework materials for efficient oil–water separation. *Journal of Materials Chemistry A*, **2022**, 10, 2751-2785	13	3
683	Enhanced catalytic performance of palladium nanoparticles in MOFs by channel engineering. *Cell Reports Physical Science*, **2022**, 3, 100757	6.1	0
682	Metal-organic framework derived multi-functionalized and co-doped TiO2/C nanocomposites for excellent visible-light photocatalysis. *Journal of Materials Science and Technology*, **2022**, 101, 49-59	9.1	3
681	Dual In-situ Laser Techniques Underpin the Role of Cations in Impacting Electrocatalysts.. *Angewandte Chemie - International Edition*, **2022**,	16.4	5
680	A Perylenediimide-Based Zinc-Coordination Polymer for Photosensitized Singlet-Oxygen Generation. *Energies*, **2022**, 15, 2437	3.1	
679	Emerging MXene@Metal-Organic Framework Hybrids: Design Strategies toward Versatile Applications. *ACS Nano*, **2021**,	16.7	10
678	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	3.8	5
677	An Investigation into the Intrinsic Peroxidase-Like Activity of Fe-MOFs and Fe-MOFs/Polymer Composites. *Advanced Materials Technologies*, **2021**, 6, 2001048	6.8	12
676	Charge-Transfer-Induced Electrical Conductivity in a Tetrathiafulvalene-Based Metal–Organic Framework. *Chemistry of Materials*, **2021**, 33, 2532-2542	9.6	8
675	Enhanced Hydrogenation Catalytic Activity of Ruthenium Nanoparticles by Solid-Solution Alloying with Molybdenum. *European Journal of Inorganic Chemistry*, **2021**, 2021, 1186-1189	2.3	0
674	Molecular Oxygen Activation by Redox-Switchable Anthraquinone-Based Metal-Organic Frameworks. *Inorganic Chemistry*, **2021**, 60, 4676-4682	5.1	0
673	Tuning the Properties of MOF-808 via Defect Engineering and Metal Nanoparticle Encapsulation. *Chemistry - A European Journal*, **2021**, 27, 6804-6814	4.8	13
672	An in situ investigation of the thermal decomposition of metal-organic framework NH2-MIL-125 (Ti). *Microporous and Mesoporous Materials*, **2021**, 316, 110957	5.3	12
671	Metal-Organic Frameworks: In Situ Tracking of Wetting-Front Transient Heat Release on a Surface-Mounted Metal–Organic Framework (Adv. Mater. 14/2021). *Advanced Materials*, **2021**, 33, 2170109	24	
670	Ultrafine TiO2 Nanoparticle Supported Nitrogen-Rich Graphitic Porous Carbon as an Efficient Anode Material for Potassium-Ion Batteries. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100042	1.6	2
669	High-Quality Thin Films of UiO-66-NH by Coordination Modulated Layer-by-Layer Liquid Phase Epitaxy. *Chemistry - A European Journal*, **2021**, 27, 8509-8516	4.8	4
668	Surface-Mounted Metal-Organic Frameworks: Past, Present, and Future Perspectives. *Langmuir*, **2021**, 37, 6847-6863	4	8

667	Wirt-Gast-Wechselwirkungen in einer Serie isoretikulärer Metall-organischer Gerüststrukturen für molekulare photokatalytische CO2-Reduktion. *Angewandte Chemie*, **2021**, 133, 17998-18004	3.6	2
666	Host-Guest Interactions in a Metal-Organic Framework Isoreticular Series for Molecular Photocatalytic CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 17854-17860	16.4	16
665	Configurational Entropy Driven High-Pressure Behaviour of a Flexible Metal–Organic Framework (MOF). *Angewandte Chemie*, **2021**, 133, 800-806	3.6	3
664	Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors. *Advanced Materials*, **2021**, 33, e2004560	24	51
663	Exploitation of Intrinsic Confinement Effects of MOFs in Catalysis. *ChemCatChem*, **2021**, 13, 1683-1691	5.2	13
662	A nitrophenyl-carbazole based push-pull linker as a building block for non-linear optical active coordination polymers: A structural and photophysical study. *Dyes and Pigments*, **2021**, 186, 109012	4.6	3
661	Surface functionalized N-C-TiO2/C nanocomposites derived from metal-organic framework in water vapour for enhanced photocatalytic H2 generation. *Journal of Energy Chemistry*, **2021**, 57, 485-495	12	19
660	Direct X-ray and electron-beam lithography of halogenated zeolitic imidazolate frameworks. *Nature Materials*, **2021**, 20, 93-99	27	46
659	Steric and Electronic Effects of Phosphane Additives on the Catalytic Performance of Colloidal Palladium Nanoparticles in the Semi-Hydrogenation of Alkynes. *ChemCatChem*, **2021**, 13, 227-234	5.2	3
658	Configurational Entropy Driven High-Pressure Behaviour of a Flexible Metal-Organic Framework (MOF). *Angewandte Chemie - International Edition*, **2021**, 60, 787-793	16.4	11
657	Homochiral metal-organic frameworks for enantioseparation. *Chemical Society Reviews*, **2021**, 50, 5706-5745	58.5	33
656	Entrapped Molecular Photocatalyst and Photosensitizer in Metal–Organic Framework Nanoreactors for Enhanced Solar CO2 Reduction. *ACS Catalysis*, **2021**, 11, 871-882	13.1	26
655	Intermetallic phases meet intermetalloid clusters. *Chemical Society Reviews*, **2021**, 50, 8496-8510	58.5	1
654	Scrutinizing ligand exchange reactions in the formation of the precious group metal-organic framework Ru-HKUST-1: the impact of diruthenium tetracarboxylate precursor and modulator choice. *Dalton Transactions*, **2021**, 50, 5226-5235	4.3	0
653	Bimetal–organic framework derived multi-heterostructured TiO2/CuxO/C nanocomposites with superior photocatalytic H2 generation performance. *Journal of Materials Chemistry A*, **2021**, 9, 4103-4116	13	13
652	Enabling LIFDI-MS measurements of highly air sensitive organometallic compounds: a combined MS/glovebox technique. *Dalton Transactions*, **2021**, 50, 9031-9036	4.3	6
651	Understanding entrapped molecular photosystem and metal-organic framework synergy for improved solar fuel production. *Faraday Discussions*, **2021**, 231, 281-297	3.6	5
650	Nanometallurgy in solution: organometallic synthesis of intermetallic Pd-Ga colloids and their activity in semi-hydrogenation catalysis. *Nanoscale*, **2021**, 13, 15038-15047	7.7	

649	Asymmetric Supercapacitors: Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors (Adv. Mater. 4/2021). *Advanced Materials*, **2021**, 33, 2170028	24	4
648	In Situ Tracking of Wetting-Front Transient Heat Release on a Surface-Mounted Metal-Organic Framework. *Advanced Materials*, **2021**, 33, e2006980	24	3
647	Two-Coordinate, Nonlinear Vanadium(II) and Chromium(II) Complexes of the Silylamide Ligand-N(SiMePh): Characterization and Confirmation of Orbitally Quenched Magnetic Moments in Complexes with Sub-d Electron Configurations. *Inorganic Chemistry*, **2021**, 60, 4108-4115	5.1	5
646	Porphyrinischer MOF-Film f□ vielf□ltige elektrochemische Sensorik. *Angewandte Chemie*, **2021**, 133, 20714-20721	3.6	2
645	Porphyrinic MOF Film for Multifaceted Electrochemical Sensing. *Angewandte Chemie - International Edition*, **2021**, 60, 20551-20557	16.4	15
644	Frontispiece: Host□Guest Interactions in a Metal□Organic Framework Isoreticular Series for Molecular Photocatalytic CO2 Reduction. *Angewandte Chemie - International Edition*, **2021**, 60,	16.4	1
643	Metamorphosis of Heterostructured Surface-Mounted Metal-Organic Frameworks Yielding Record Oxygen Evolution Mass Activities. *Advanced Materials*, **2021**, 33, e2103218	24	11
642	Hydrophobicity: a key factor en route to applications of metal□organic frameworks. *Trends in Chemistry*, **2021**,	14.8	4
641	A multifunctional covalently linked graphene□MOF hybrid as an effective chemiresistive gas sensor. *Journal of Materials Chemistry A*, **2021**, 9, 17434-17441	13	5
640	Exploring Cu/Al cluster growth and reactivity: from embryonic building blocks to intermetalloid, open-shell superatoms. *Chemical Science*, **2021**, 12, 6588-6599	9.4	4
639	Defect engineering: an effective tool for enhancing the catalytic performance of copper-MOFs for the click reaction and the A3 coupling. *Catalysis Science and Technology*, **2021**, 11, 2396-2402	5.5	3
638	Innenr□cktitelbild: Configurational Entropy Driven High-Pressure Behaviour of a Flexible Metal□Organic Framework (MOF) (Angew. Chem. 2/2021). *Angewandte Chemie*, **2021**, 133, 1047-1047	3.6	1
637	Contrasting Structure and Bonding of a Copper-Rich and a Zinc-Rich Intermetalloid Cu/Zn Cluster. *Inorganic Chemistry*, **2020**, 59, 9077-9085	5.1	4
636	The synergistic effect of heterostructured dissimilar metal□organic framework thin films on adsorption properties. *Journal of Materials Chemistry A*, **2020**, 8, 12990-12995	13	8
635	Postsynthetic Framework Contraction Enhances the Two-Photon Absorption Properties of Pillar-Layered Metal□Organic Frameworks. *Chemistry of Materials*, **2020**, 32, 5682-5690	9.6	7
634	Formation of a Propeller-Shaped NiGa Cluster Supported by Transmetalation of Cp* from Ga to Ni. *Inorganic Chemistry*, **2020**, 59, 5086-5092	5.1	1
633	Charting the Metal-Dependent High-Pressure Stability of Bimetallic UiO-66 Materials **2020**, 2, 438-445		9
632	Synthesis of plasmonic Fe/Al nanoparticles in ionic liquids.. *RSC Advances*, **2020**, 10, 12891-12899	3.7	9

631	Inter-conversion between zeolitic imidazolate frameworks: a dissolution–recrystallization process. *Journal of Materials Chemistry A*, **2020**, 8, 13710-13717	13	4
630	Substantial Turnover Frequency Enhancement of MOF Catalysts by Crystallite Downsizing Combined with Surface Anchoring. *ACS Catalysis*, **2020**, 10, 3203-3211	13.1	22
629	Defect-Engineered Ruthenium MOFs as Versatile Heterogeneous Hydrogenation Catalysts. *ChemCatChem*, **2020**, 12, 1720-1725	5.2	20
628	Bimetallic hexanuclear clusters in Ce/Zr-UiO-66 MOFs: in situ FTIR spectroscopy and modelling insights. *Dalton Transactions*, **2020**, 49, 5794-5797	4.3	7
627	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surface-Mounted Metal–Organic Frameworks. *Angewandte Chemie*, **2020**, 132, 5886-5892	3.6	9
626	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surface-Mounted Metal-Organic Frameworks. *Angewandte Chemie - International Edition*, **2020**, 59, 5837-5843	16.4	56
625	Combined Experimental and Theoretical Study on Hampered Phosphine Dissociation in Heteroleptic Ni/Zn Complexes. *Inorganic Chemistry*, **2020**, 59, 514-522	5.1	3
624	Defect Creation in Surface-Mounted Metal-Organic Framework Thin Films. *ACS Applied Materials & Interfaces*, **2020**, 12, 2655-2661	9.5	8
623	Scrutinizing the Pore Chemistry and the Importance of Cu(I) Defects in TCNQ-Loaded Cu(BTC) by a Multitechnique Spectroscopic Approach. *ACS Applied Materials & Interfaces*, **2020**, 12, 1024-1035	9.5	14
622	The chemistry of Ce-based metal-organic frameworks. *Dalton Transactions*, **2020**, 49, 16551-16586	4.3	30
621	Thermal defect engineering of precious group metal–organic frameworks: impact on the catalytic cyclopropanation reaction. *Catalysis Science and Technology*, **2020**, 10, 8077-8085	5.5	1
620	Hierarchical Porous Graphene-Iron Carbide Hybrid Derived From Functionalized Graphene-Based Metal-Organic Gel as Efficient Electrochemical Dopamine Sensor. *Frontiers in Chemistry*, **2020**, 8, 544	5	5
619	Coordinated Water as New Binding Sites for the Separation of Light Hydrocarbons in Metal-Organic Frameworks with Open Metal Sites. *ACS Applied Materials & Interfaces*, **2020**, 12, 9448-9456	9.5	7
618	Porphyrin based metal–organic framework films: nucleation and growth. *Journal of Materials Chemistry A*, **2020**, 8, 25941-25950	13	13
617	MHP@MOF Hybrids: Metal Halide Perovskite@Metal-Organic Framework Hybrids: Synthesis, Design, Properties, and Applications (Small 47/2020). *Small*, **2020**, 16, 2070258	11	
616	Selective Positioning of Nanosized Metal–Organic Framework Particles at Patterned Substrate Surfaces. *Chemistry of Materials*, **2020**, 32, 9954-9963	9.6	4
615	Dual-Function HKUST-1: Templating and Catalyzing Formation of Graphitic Carbon Nitride Quantum Dots Under Mild Conditions. *Angewandte Chemie - International Edition*, **2020**, 59, 21499-21504	16.4	10
614	Dual-Function HKUST-1: Templating and Catalyzing Formation of Graphitic Carbon Nitride Quantum Dots Under Mild Conditions. *Angewandte Chemie*, **2020**, 132, 21683-21688	3.6	4

613	Defect Engineering of Copper Paddlewheel-Based Metal-Organic Frameworks of Type NOTT-100: Implementing Truncated Linkers and Its Effect on Catalytic Properties. *ACS Applied Materials & Interfaces*, **2020**, 12, 37993-38002	9.5	14
612	Thermal Defect Engineering of Precious Group Metal-Organic Frameworks: A Case Study on Ru/Rh-HKUST-1 Analogues. *ACS Applied Materials & Interfaces*, **2020**, 12, 40635-40647	9.5	10
611	Metal Halide Perovskite@Metal-Organic Framework Hybrids: Synthesis, Design, Properties, and Applications. *Small*, **2020**, 16, e2004891	11	16
610	Influence of Thermal and Mechanical Stimuli on the Behavior of Al-CAU-13 Metal-Organic Framework. *Nanomaterials*, **2020**, 10,	5.4	1
609	Synthesis of nickel/gallium nanoalloys using a dual-source approach in 1-alkyl-3-methylimidazole ionic liquids. *Beilstein Journal of Nanotechnology*, **2019**, 10, 1754-1767	3	1
608	Control of structural flexibility of layered-pillared metal-organic frameworks anchored at surfaces. *Nature Communications*, **2019**, 10, 346	17.4	60
607	Discovery of Polyoxo-Noble-Metalate-Based Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 3385-3389	16.4	35
606	Porous ZnO/Carbon nanocomposites derived from metal organic frameworks for highly efficient photocatalytic applications: A correlational study. *Carbon*, **2019**, 146, 348-363	10.4	49
605	Mixed precious-group metal-organic frameworks: a case study of the HKUST-1 analogue [RuRh(BTC)]. *Dalton Transactions*, **2019**, 48, 12031-12039	4.3	20
604	Regulating the size and spatial distribution of Pd nanoparticles supported by the defect engineered metal□rganic framework HKUST-1 and applied in the aerobic oxidation of cinnamyl alcohol. *Catalysis Science and Technology*, **2019**, 9, 3703-3710	5.5	13
603	Controlling Multiphoton Absorption Efficiency by Chromophore Packing in Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 11594-11602	16.4	30
602	Tuning the Negative Thermal Expansion Behavior of the Metal-Organic Framework CuBTC by Retrofitting. *Journal of the American Chemical Society*, **2019**, 141, 10504-10509	16.4	32
601	Hydrophobic Metal-Organic Frameworks. *Advanced Materials*, **2019**, 31, e1900820	24	76
600	Sauerstoffevolutionselektrokatalyse eines einzelnen MOF-basierten Kompositnanopartikels an der Spitze einer Nanoelektrode. *Angewandte Chemie*, **2019**, 131, 9021-9026	3.6	12
599	Optimierung der Gr□ von Platin-Nanopartikeln f□ eine erh□te Massenaktivit□ der elektrochemischen Sauerstoffreduktion. *Angewandte Chemie*, **2019**, 131, 9697-9702	3.6	8
598	Optimizing the Size of Platinum Nanoparticles for Enhanced Mass Activity in the Electrochemical Oxygen Reduction Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 9596-9600	16.4	63
597	Oxygen Evolution Electrocatalysis of a Single MOF-Derived Composite Nanoparticle on the Tip of a Nanoelectrode. *Angewandte Chemie - International Edition*, **2019**, 58, 8927-8931	16.4	56
596	Unprecedented High Oxygen Evolution Activity of Electrocatalysts Derived from Surface-Mounted Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 5926-5933	16.4	87

595	Metal□Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Li-Ion Hybrid Capacitors. *Advanced Functional Materials*, **2019**, 29, 1900532	15.6	98
594	Flexibility control in alkyl ether-functionalized pillared-layered MOFs by a Cu/Zn mixed metal approach. *Dalton Transactions*, **2019**, 48, 6564-6570	4.3	13
593	Bridging the Green Gap: Metal-Organic Framework Heteromultilayers Assembled from Porphyrinic Linkers Identified by Using Computational Screening. *Chemistry - A European Journal*, **2019**, 25, 7847-7851	4.8	18
592	Recent Approaches to Design Electrocatalysts Based on Metal-Organic Frameworks and Their Derivatives. *Chemistry - an Asian Journal*, **2019**, 14, 3474-3501	4.5	25
591	Generation and Stabilization of Small Platinum Clusters Pt Inside a Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 13962-13969	16.4	26
590	Metal□Organic Frameworks: Hydrophobic Metal□Organic Frameworks (Adv. Mater. 32/2019). *Advanced Materials*, **2019**, 31, 1970230	24	25
589	Increasing Alkyl Chain Length in a Series of Layered Metal-Organic Frameworks Aids Ultrasonic Exfoliation to Form Nanosheets. *Inorganic Chemistry*, **2019**, 58, 10837-10845	5.1	14
588	A metal-organic framework for efficient water-based ultra-low-temperature-driven cooling. *Nature Communications*, **2019**, 10, 3025	17.4	72
587	Shape-Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithium-Ion Battery Electrodes. *Advanced Functional Materials*, **2019**, 29, 1902539	15.6	71
586	All-zinc coordinated nickel-complexes as molecular mimics for NiZn catalyst surfaces, a density functional theory study. *Dalton Transactions*, **2019**, 48, 11743-11748	4.3	4
585	Network topology and cavity confinement-controlled diastereoselectivity in cyclopropanation reactions catalyzed by porphyrin-based MOFs. *Catalysis Science and Technology*, **2019**, 9, 6452-6459	5.5	9
584	A porous and redox active ferrocenedicarboxylic acid based aluminium MOF with a MIL-53 architecture. *Dalton Transactions*, **2019**, 48, 16737-16743	4.3	7
583	Micro-spectroscopy of HKUST-1 metal-organic framework crystals loaded with tetracyanoquinodimethane: effects of water on host-guest chemistry and electrical conductivity. *Physical Chemistry Chemical Physics*, **2019**, 21, 25678-25689	3.6	8
582	Bimetallic Co/Al nanoparticles in an ionic liquid: synthesis and application in alkyne hydrogenation. *New Journal of Chemistry*, **2019**, 43, 16583-16594	3.6	10
581	Metal□organic frameworks in Germany: From synthesis to function. *Coordination Chemistry Reviews*, **2019**, 380, 378-418	23.2	65
580	Probing Local Structural Changes at Cu2+ in a Flexible Mixed-Metal Metal-Organic Framework by in Situ Electron Paramagnetic Resonance during CO2 Ad- and Desorption. *Journal of Physical Chemistry C*, **2019**, 123, 2940-2952	3.8	12
579	Reversible Optical Writing and Data Storage in an Anthracene-Loaded Metal-Organic Framework. *Angewandte Chemie - International Edition*, **2019**, 58, 2423-2427	16.4	61
578	Highly Porous Nanocrystalline UiO-66 Thin Films via Coordination Modulation Controlled Step-by-Step Liquid-Phase Growth. *Crystal Growth and Design*, **2019**, 19, 1738-1747	3.5	13

577	MOFs for Electrocatalysis: From Serendipity to Design Strategies. *Small Methods*, **2019**, 3, 1800415	12.8	65
576	Ultrathin Hierarchical Porous Carbon Nanosheets for High-Performance Supercapacitors and Redox Electrolyte Energy Storage. *Advanced Materials*, **2018**, 30, e1705789	24	231
575	Unveiling BiVO4 nanorods as a novel anode material for high performance lithium ion capacitors: beyond intercalation strategies. *Journal of Materials Chemistry A*, **2018**, 6, 6096-6106	13	58
574	Optimisation of synthesis conditions for UiO-66-CO2H towards scale-up and its vapour sorption properties. *Reaction Chemistry and Engineering*, **2018**, 3, 365-370	4.9	12
573	Different Breathing Mechanisms in Flexible Pillared-Layered Metal□Organic Frameworks: Impact of the Metal Center. *Chemistry of Materials*, **2018**, 30, 1667-1676	9.6	60
572	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 (ZnCCSi i Pr) 4]. *Journal of Organometallic Chemistry*, **2018**, 860, 78-84	2.3	8
571	Defective Metal-Organic Frameworks. *Advanced Materials*, **2018**, 30, e1704501	24	282
570	Metal-Organic Frameworks as Catalyst Supports: Influence of Lattice Disorder on Metal Nanoparticle Formation. *Chemistry - A European Journal*, **2018**, 24, 7498-7506	4.8	20
569	Unravelling the Redox-catalytic Behavior of Ce Metal-Organic Frameworks by X-ray Absorption Spectroscopy. *ChemPhysChem*, **2018**, 19, 373-378	3.2	69
568	Single-Site, Organometallic Aluminum Catalysts for the Precise Group Transfer Polymerization of Michael-Type Monomers. *Chemistry - A European Journal*, **2018**, 24, 14950-14957	4.8	6
567	Der Mackay-Cluster [Cu43Al12](Cp*)12: Ein offenschaliges 67-Elektronen-Superatom mit metall□hnlicher elektronischer Struktur. *Angewandte Chemie*, **2018**, 130, 14840-14844	3.6	7
566	The Mackay-Type Cluster [Cu Al](Cp*) : Open-Shell 67-Electron Superatom with Emerging Metal-Like Electronic Structure. *Angewandte Chemie - International Edition*, **2018**, 57, 14630-14634	16.4	25
565	Intermetalloid Clusters: Molecules and Solids in a Dialogue. *Angewandte Chemie - International Edition*, **2018**, 57, 14372-14393	16.4	33
564	CuPd Mixed-Metal HKUST-1 as a Catalyst for Aerobic Alcohol Oxidation. *Journal of Physical Chemistry C*, **2018**, 122, 21433-21440	3.8	28
563	Intermetalloide Cluster: Molek□le und Festk□per im Dialog. *Angewandte Chemie*, **2018**, 130, 14570-14593	3.6	6
562	High electrical conductivity and high porosity in a Guest@MOF material: evidence of TCNQ ordering within CuBTC micropores. *Chemical Science*, **2018**, 9, 7405-7412	9.4	55
561	MOF Derived Porous ZnO/C Nanocomposites for Efficient Dye Photodegradation. *ACS Applied Energy Materials*, **2018**, 1, 4695-4707	6.1	41
560	Synthesis of rare-earth metal and rare-earth metal-fluoride nanoparticles in ionic liquids and propylene carbonate. *Beilstein Journal of Nanotechnology*, **2018**, 9, 1881-1894	3	14

559	Dual Site Lewis-Acid Metal-Organic Framework Catalysts for CO2 Fixation: Counteracting Effects of Node Connectivity, Defects and Linker Metalation. *ChemCatChem*, **2018**, 10, 3506-3512	5.2	38
558	Probing the Evolution of Palladium Species in Pd@MOF Catalysts during the Heck Coupling Reaction: An Operando X-ray Absorption Spectroscopy Study. *Journal of the American Chemical Society*, **2018**, 140, 8206-8217	16.4	50
557	Green synthesis of a new layered aluminium citraconate: crystal structures, intercalation behaviour towards HO and in situ PXRD studies of its crystallisation. *Dalton Transactions*, **2018**, 47, 215-223	4.3	11
556	Green Synthesis of a New Al-MOF Based on the Aliphatic Linker Mesaconic Acid: Structure, Properties and In Situ Crystallisation Studies of Al-MIL-68-Mes. *Chemistry - A European Journal*, **2018**, 24, 2173-2181	4.8	24
555	Titelbild: Der Mackay-Cluster [Cu43Al12](Cp*)12: Ein offenschaliges 67-Elektronen-Superatom mit metallähnlicher elektronischer Struktur (Angew. Chem. 44/2018). *Angewandte Chemie*, **2018**, 130, 14489-14489	3.6	
554	Water as a modulator in the synthesis of surface-mounted metal-organic framework films of type HKUST-1. *Dalton Transactions*, **2018**, 47, 16474-16479	4.3	10
553	Embryonic brass: pseudo two electron Cu/Zn clusters. *Chemical Science*, **2018**, 9, 8906-8913	9.4	15
552	Hierarchical Porous Fluorinated Graphene Oxide@Metal-Organic Gel Composite: Label-Free Electrochemical Aptasensor for Selective Detection of Thrombin. *ACS Applied Materials & Interfaces*, **2018**, 10, 41089-41097	9.5	31
551	2D Metall□rganic Frameworks: Ultrathin 2D Cobalt Zeolite-Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution (Adv. Sci. 11/2018). *Advanced Science*, **2018**, 5, 1870072	13.6	1
550	Reversible Optical Writing and Data Storage in an Anthracene-Loaded Metall□rganic Framework. *Angewandte Chemie*, **2018**, 131, 2445	3.6	5
549	A Porous Cobalt Tetraphosphonate Metal-Organic Framework: Accurate Structure and Guest Molecule Location Determined by Continuous-Rotation Electron Diffraction. *Chemistry - A European Journal*, **2018**, 24, 17429-17433	4.8	54
548	Suppressed Phosphine Dissociation by Polarization Effects on the Donor-Acceptor Bonds in [Ni(PEt)(ECp*)] (E = Al, Ga). *Inorganic Chemistry*, **2018**, 57, 12657-12664	5.1	8
547	Surface Morphology and Electrical Properties of CuBTC Thin Films Before and After Reaction with TCNQ. *ACS Applied Materials & Interfaces*, **2018**, 10, 39400-39410	9.5	25
546	Single-Site, Organometallic Aluminum Catalysts for the Precise Group Transfer Polymerization of Michael-Type Monomers. *Chemistry - A European Journal*, **2018**, 24, 14853-14853	4.8	
545	Ultrathin 2D Cobalt Zeolite-Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution. *Advanced Science*, **2018**, 5, 1801029	13.6	65
544	Control of Water Content for Enhancing the Quality of Copper Paddle-Wheel-Based Metall□rganic Framework Thin Films Grown by Layer-by-Layer Liquid-Phase Epitaxy. *Crystal Growth and Design*, **2018**, 18, 7451-7459	3.5	10
543	SYNTHETIC ROUTES TO PHOSPHIDO AND ARSENIDO DERIVATIVES OF THE GROUP 13 METALS ALUMINUM, GALLIUM, AND INDIUM, TRIS(TERT-BUTYL)GALLIUM AND ITS REACTIONS WITH AMMONIA, AND THE ALUMINUM(I) SPECIES PENTAMETHYLCYCLOPENTADIENYL ALUMINUM TETRAMER. *Inorganic Syntheses*, **2018**, 135-153		0
542	Metall□rganic Frameworks: Defective Metal-Organic Frameworks (Adv. Mater. 37/2018). *Advanced Materials*, **2018**, 30, 1870280	24	7

541	Directing the hetero-growth of lattice-mismatched surface-mounted metal–organic frameworks by functionalizing the interface. *Journal of Materials Chemistry A*, **2018**, 6, 21295-21303	13	19
540	Tuning the Mechanical Response of Metal-Organic Frameworks by Defect Engineering. *Journal of the American Chemical Society*, **2018**, 140, 11581-11584	16.4	54
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