

Roland A Fischer

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

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	Synthesis of metal-organic frameworks (MOFs): routes to various MOF topologies, morphologies, and composites. <i>Chemical Reviews</i> , 2012 , 112, 933-69	68.1	3128
683	Flexible metal-organic frameworks. <i>Chemical Society Reviews</i> , 2014 , 43, 6062-96	58.5	1372
682	MOF thin films: existing and future applications. <i>Chemical Society Reviews</i> , 2011 , 40, 1081-106	58.5	1048
681	Metal-organic framework thin films: from fundamentals to applications. <i>Chemical Reviews</i> , 2012 , 112, 1055-83	68.1	928
680	Co@Co3O4 Encapsulated in Carbon Nanotube-Grafted Nitrogen-Doped Carbon Polyhedra as an Advanced Bifunctional Oxygen Electrode. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4087-91	16.4	869
679	Thin films of metal-organic frameworks. <i>Chemical Society Reviews</i> , 2009 , 38, 1418-29	58.5	756
678	Step-by-step route for the synthesis of metal-organic frameworks. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15118-9	16.4	707
677	Defect-Engineered Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7234-54	16.4	703
676	Metal@MOF: loading of highly porous coordination polymers host lattices by metal organic chemical vapor deposition. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6237-41	16.4	598
675	Selective nucleation and growth of metal-organic open framework thin films on patterned COOH/CF3-terminated self-assembled monolayers on Au(111). <i>Journal of the American Chemical Society</i> , 2005 , 127, 13744-5	16.4	490
674	Controlling interpenetration in metal-organic frameworks by liquid-phase epitaxy. <i>Nature Materials</i> , 2009 , 8, 481-4	27	460
673	Metals@MOFs [Loading MOFs with Metal Nanoparticles for Hybrid Functions. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3701-3714	2.3	422
672	High-throughput assisted rationalization of the formation of metal organic frameworks in the Iron(III) aminoterephthalate solvothermal system. <i>Inorganic Chemistry</i> , 2008 , 47, 7568-76	5.1	392
671	Effective mercury sorption by thiol-laced metal-organic frameworks: in strong acid and the vapor phase. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7795-8	16.4	387
670	Directing the breathing behavior of pillared-layered metal-organic frameworks via a systematic library of functionalized linkers bearing flexible substituents. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9464-74	16.4	362
669	Nonlinear optical properties, upconversion and lasing in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2017 , 46, 4976-5004	58.5	348
668	Ruthenium nanoparticles inside porous [Zn4O(bdc)3] by hydrogenolysis of adsorbed [Ru(cod)(cot)]: a solid-state reference system for surfactant-stabilized ruthenium colloids. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6119-30	16.4	319

667	Growth mechanism of metal-organic frameworks: insights into the nucleation by employing a step-by-step route. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5038-41	16.4	318
666	How linker's modification controls swelling properties of highly flexible iron(III) dicarboxylates MIL-88. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17839-47	16.4	307
665	Biomimetic Superhydrophobic/Superoleophilic Highly Fluorinated Graphene Oxide and ZIF-8 Composites for Oil-Water Separation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1178-82	16.4	295
664	Defective Metal-Organic Frameworks. <i>Advanced Materials</i> , 2018 , 30, e1704501	24	282
663	Surface chemistry of metal-organic frameworks at the liquid-solid interface. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 176-99	16.4	276
662	Cerium-based metal organic frameworks with UiO-66 architecture: synthesis, properties and redox catalytic activity. <i>Chemical Communications</i> , 2015 , 51, 12578-81	5.8	249
661	Trapping metal-organic framework nanocrystals: an in-situ time-resolved light scattering study on the crystal growth of MOF-5 in solution. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5324-5	16.4	248
660	Loading of MOF-5 with Cu and ZnO Nanoparticles by Gas-Phase Infiltration with Organometallic Precursors: Properties of Cu/ as Catalyst for Methanol Synthesis. <i>Chemistry of Materials</i> , 2008 , 20, 4576-4587	9.6	240
659	Direct covalent post-synthetic chemical modification of Cr-MIL-101 using nitrating acid. <i>Chemical Communications</i> , 2011 , 47, 2838-40	5.8	238
658	Luminescence properties of nanocrystalline Y ₂ O ₃ :Eu ³⁺ in different host materials. <i>Journal of Applied Physics</i> , 2001 , 89, 1679	2.5	236
657	Au@ZIFs: Stabilization and Encapsulation of Cavity-Size Matching Gold Clusters inside Functionalized Zeolite Imidazolate Frameworks, ZIFs. <i>Chemistry of Materials</i> , 2010 , 22, 6393-6401	9.6	232
656	Ultrathin Hierarchical Porous Carbon Nanosheets for High-Performance Supercapacitors and Redox Electrolyte Energy Storage. <i>Advanced Materials</i> , 2018 , 30, e1705789	24	231
655	Structures, Sorption Characteristics, and Nonlinear Optical Properties of a New Series of Highly Stable Aluminum MOFs. <i>Chemistry of Materials</i> , 2013 , 25, 17-26	9.6	227
654	New functionalized flexible Al-MIL-53-X (X = -Cl, -Br, -CH ₃ , -NO ₂ , -(OH) ₂) solids: syntheses, characterization, sorption, and breathing behavior. <i>Inorganic Chemistry</i> , 2011 , 50, 9518-26	5.1	224
653	Multifunctional, defect-engineered metal-organic frameworks with ruthenium centers: sorption and catalytic properties. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7058-62	16.4	203
652	Deposition of microcrystalline [Cu ₃ (btc) ₂] and [Zn ₂ (bdc) ₂ (dabco)] at alumina and silica surfaces modified with patterned self assembled organic monolayers: evidence of surface selective and oriented growth. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2785		198
651	Structural complexity in metal-organic frameworks: simultaneous modification of open metal sites and hierarchical porosity by systematic doping with defective linkers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9627-36	16.4	195
650	Loading of porous metal-organic open frameworks with organometallic CVD precursors: inclusion compounds of the type [LnM] _a @MOF-5. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2464-2472		182

649	High-Throughput Fabrication of Uniform and Homogenous MOF Coatings. <i>Advanced Functional Materials</i> , 2011 , 21, 4228-4231	15.6	179
648	Transition Metal Chemistry of Low Valent Group 13 Organyls. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 4161-4176	2.3	179
647	Metal-Organic frameworks as hosts for nanoparticles. <i>CrystEngComm</i> , 2015 , 17, 199-217	3.3	177
646	Investigation of porous Ni-based metal-organic frameworks containing paddle-wheel type inorganic building units via high-throughput methods. <i>Inorganic Chemistry</i> , 2011 , 50, 5085-97	5.1	172
645	Enantiopure metal-organic framework thin films: oriented SURMOF growth and enantioselective adsorption. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 807-10	16.4	169
644	Direct growth of Cu ₃ (BTC) ₂ (H ₂ O) ₃ · xH ₂ O thin films on modified QCM-gold electrodes □ Water sorption isotherms. <i>Microporous and Mesoporous Materials</i> , 2008 , 114, 380-386	5.3	166
643	Selective Growth and MOCVD Loading of Small Single Crystals of MOF-5 at Alumina and Silica Surfaces Modified with Organic Self-Assembled Monolayers □ <i>Chemistry of Materials</i> , 2007 , 19, 2168-2173	9.6	164
642	Metal-Organic framework thin films: electrochemical fabrication techniques and corresponding applications & perspectives. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12356-12369	13	158
641	High-throughput synthesis of phosphonate-based inorganic-organic hybrid compounds under hydrothermal conditions. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 749-52	16.4	155
640	Synthesis, Structure and Properties of Related Microporous N,N'-Piperazinebismethylenephosphonates of Aluminum and Titanium. <i>Chemistry of Materials</i> , 2006 , 18, 1451-1457	9.6	154
639	Integration of porous coordination polymers and gold nanorods into core-shell mesoscopic composites toward light-induced molecular release. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10998-1005	16.4	151
638	1D ZnO nano-assemblies by Plasma-CVD as chemical sensors for flammable and toxic gases. <i>Sensors and Actuators B: Chemical</i> , 2010 , 149, 1-7	8.5	150
637	F-Doped Co ₃ O ₄ photocatalysts for sustainable H ₂ generation from water/ethanol. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19362-5	16.4	149
636	The first porous MOF with photoswitchable linker molecules. <i>Dalton Transactions</i> , 2011 , 40, 4217-22	4.3	149
635	Gated channels in a honeycomb-like zinc-dicarboxylate-bipyridine framework with flexible alkyl ether side chains. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2064-7	16.4	147
634	Iron-Based Metal-Organic Frameworks MIL-88B and NH ₂ -MIL-88B: High Quality Microwave Synthesis and Solvent-Induced Lattice Breathing □ <i>Crystal Growth and Design</i> , 2013 , 13, 2286-2291	3.5	145
633	Massive Anisotropic Thermal Expansion and Thermo-Responsive Breathing in Metal-Organic Frameworks Modulated by Linker Functionalization. <i>Advanced Functional Materials</i> , 2013 , 23, 5990-5996	15.6	144
632	A cryogenically flexible covalent organic framework for efficient hydrogen isotope separation by quantum sieving. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13219-22	16.4	143

631	Coordination Chemistry of Aluminum, Gallium, and Indium at Transition Metals. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2830-2850	16.4	143
630	Liquid-phase epitaxy of multicomponent layer-based porous coordination polymer thin films of [M(L)(P)0.5] type: importance of deposition sequence on the oriented growth. <i>Chemistry - A European Journal</i> , 2011 , 17, 1448-55	4.8	141
629	MOF-on-MOF heteroepitaxy: perfectly oriented [Zn ₂ (ndc) ₂ (dabco)] _n grown on [Cu ₂ (ndc) ₂ (dabco)] _n thin films. <i>Dalton Transactions</i> , 2011 , 40, 4954-8	4.3	134
628	Nanoporous Nitrogen-Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metal-Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2017 , 27, 1700451	15.6	133
627	Direct Imaging of Loaded Metal-Organic Framework Materials (Metal@MOF-5). <i>Chemistry of Materials</i> , 2008 , 20, 5622-5627	9.6	131
626	Co ₃ O ₄ /ZnO nanocomposites: from plasma synthesis to gas sensing applications. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 928-34	9.5	125
625	High-throughput investigations employing solvothermal syntheses. <i>Microporous and Mesoporous Materials</i> , 2010 , 129, 287-295	5.3	125
624	Bonding and Orientation in Self-Assembled Monolayers of Oligophenyldithiols on Au Substrates. <i>Langmuir</i> , 2002 , 18, 7766-7769	4	123
623	Automated diffraction tomography for the structure elucidation of twinned, sub-micrometer crystals of a highly porous, catalytically active bismuth metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10373-6	16.4	122
622	Confinement of CdSe Nanoparticles Inside MCM-41. <i>Advanced Materials</i> , 2000 , 12, 1050-1055	24	121
621	Fabrication of Gold/Titania Photocatalyst for CO ₂ Reduction Based on Pyrolytic Conversion of the Metal-Organic Framework NH ₂ -MIL-125(Ti) Loaded with Gold Nanoparticles. <i>Chemistry of Materials</i> , 2015 , 27, 7248-7257	9.6	119
620	Introducing a photo-switchable azo-functionality inside Cr-MIL-101-NH ₂ by covalent post-synthetic modification. <i>Dalton Transactions</i> , 2012 , 41, 8690-6	4.3	119
619	Binary Janus porous coordination polymer coatings for sensor devices with tunable analyte affinity. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 341-5	16.4	116
618	Metal@COFs: covalent organic frameworks as templates for Pd nanoparticles and hydrogen storage properties of Pd@COF-102 hybrid material. <i>Chemistry - A European Journal</i> , 2012 , 18, 10848-56	4.8	116
617	High-throughput aided synthesis of the porous metal-organic framework-type aluminum pyromellitate, MIL-121, with extra carboxylic acid functionalization. <i>Inorganic Chemistry</i> , 2010 , 49, 9852-62	5.1	116
616	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metal-Organic Nanofibrous Gel Composites for Oil Adsorption. <i>Advanced Materials</i> , 2017 , 29, 1605307	24	115
615	Chemistry of SURMOFs: layer-selective installation of functional groups and post-synthetic covalent modification probed by fluorescence microscopy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1734-7	16.4	115
614	Cyclopentadiene based low-valent group 13 metal compounds: ligands in coordination chemistry and link between metal rich molecules and intermetallic materials. <i>Chemical Reviews</i> , 2012 , 112, 3136-70	68.1	114

- 613 Flexibility and sorption selectivity in rigid metal-organic frameworks: the impact of ether-functionalised linkers. *Chemistry - A European Journal*, **2010**, 16, 14296-306 4.8 113
- 612 [(μ -C5Me5)Al⁺Fe(CO)₄]⁻Synthesis, Structure, and Bonding. *Angewandte Chemie International Edition in English*, **1997**, 36, 70-72 113
- 611 Water adsorption behaviour of CAU-10-H: a thorough investigation of its structure-property relationships. *Journal of Materials Chemistry A*, **2016**, 4, 11859-11869 13 112
- 610 Pd@MOF-5: limitations of gas-phase infiltration and solution impregnation of [Zn₄O(bdc)₃] (MOF-5) with metal-organic palladium precursors for loading with Pd nanoparticles. *Journal of Materials Chemistry*, **2009**, 19, 1314 110
- 609 Self-Directed Localization of ZIF-8 Thin Film Formation by Conversion of ZnO Nanolayers. *Advanced Functional Materials*, **2014**, 24, 4804-4811 15.6 108
- 608 GaN@ZIF-8: selective formation of gallium nitride quantum dots inside a zinc methylimidazolate framework. *Journal of the American Chemical Society*, **2011**, 133, 16370-3 16.4 108
- 607 Layer-by-layer growth of oriented metal organic polymers on a functionalized organic surface. *Langmuir*, **2007**, 23, 7440-2 4 108
- 606 Engineering Zeolitic-Imidazolate Framework (ZIF) Thin Film Devices for Selective Detection of Volatile Organic Compounds. *Advanced Functional Materials*, **2015**, 25, 4470-4479 15.6 107
- 605 Iron metal-organic frameworks MIL-88B and NH₂-MIL-88B for the loading and delivery of the gas transmitter carbon monoxide. *Chemistry - A European Journal*, **2013**, 19, 6785-90 4.8 106
- 604 Surface-mounted metal-organic frameworks for applications in sensing and separation. *Microporous and Mesoporous Materials*, **2015**, 216, 200-215 5.3 105
- 603 AlCp* as a directing ligand: C-H and Si-H bond activation at the reactive intermediate [Ni(AlCp*)(3)]. *Angewandte Chemie - International Edition*, **2004**, 43, 2299-302 16.4 105
- 602 Transition Metal Coordinated Al(X)L₂ and Ga(X)L₂ Fragments. *Journal of the American Chemical Society*, **1998**, 120, 1237-1248 16.4 103
- 601 Intercalation in layered metal-organic frameworks: reversible inclusion of an extended π -system. *Journal of the American Chemical Society*, **2011**, 133, 8158-61 16.4 102
- 600 New Synthetic Routes to More Active Cu/ZnO Catalysts Used for Methanol Synthesis. *Catalysis Letters*, **2004**, 92, 49-52 2.8 102
- 599 A non-aqueous organometallic route to highly monodispersed copper nanoparticles using [Cu(OCH(Me)CH₂NMe₂)₂]. *Chemical Communications*, **2002**, 68-9 5.8 102
- 598 Nanocrystals of [Cu₃(btc)₂] (HKUST-1): a combined time-resolved light scattering and scanning electron microscopy study. *Chemical Communications*, **2009**, 1031-3 5.8 101
- 597 Metall@MOF: Beladung hoch poröser Koordinationspolymergitter durch Metallorganische Chemische Dampfabsecheidung. *Angewandte Chemie*, **2005**, 117, 6394-6397 3.6 101
- 596 Solvothermal growth of a ruthenium metal-organic framework featuring HKUST-1 structure type as thin films on oxide surfaces. *Chemical Communications*, **2011**, 47, 8509-11 5.8 99

595	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	15.6	98
594	MOF Processing by Electrospinning for Functional Textiles. <i>Advanced Engineering Materials</i> , 2011 , 13, 356-360	3.5	96
593	ZnO@ZIF-8: stabilization of quantum confined ZnO nanoparticles by a zinc methylimidazolate framework and their surface structural characterization probed by CO ₂ adsorption. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5907		95
592	Synthesis of CdSe nanoparticles using various organometallic cadmium precursors. <i>Journal of Materials Chemistry</i> , 2001 , 11, 3197-3201		95
591	Au@MOF-5 and Au/MO _x @MOF-5 (M = Zn, Ti; x = 1, 2): Preparation and Microstructural Characterisation. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 1876-1887	2.3	92
590	Metal-organic frameworks as potential shock absorbers: the case of the highly flexible MIL-53(Al). <i>Chemical Communications</i> , 2014 , 50, 9462-4	5.8	89
589	Turning MIL-53(Al) redox-active by functionalization of the bridging OH-group with 1,1'-ferrocenediyl-dimethylsilane. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9644-5	16.4	89
588	The clusters [M _a (EC _p *) _b] (M=Pd, Pt; E=Al, Ga, In): structures, fluxionality, and ligand exchange reactions. <i>Chemistry - A European Journal</i> , 2005 , 11, 1636-46	4.8	89
587	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	16.4	87
586	Synthesis and Characterization of New Ce(IV)-MOFs Exhibiting Various Framework Topologies. <i>Crystal Growth and Design</i> , 2017 , 17, 1125-1131	3.5	87
585	Fabrication of a CO ₂ -selective membrane by stepwise liquid-phase deposition of an alkylether functionalized pillared-layered metal-organic framework [Cu ₂ L ₂ P] _n on a macroporous support. <i>Microporous and Mesoporous Materials</i> , 2012 , 150, 76-82	5.3	85
584	Defektmanipulierte Metall-organische Gerüste. <i>Angewandte Chemie</i> , 2015 , 127, 7340-7362	3.6	85
583	Highly Oriented ZnO Nanorod Arrays by a Novel Plasma Chemical Vapor Deposition Process. <i>Crystal Growth and Design</i> , 2010 , 10, 2011-2018	3.5	85
582	Gas-phase loading of [Zn ₄ O(bt _b) 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. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5274		85
581	A Facile Green Route for Scalable Batch Production and Continuous Synthesis of Zirconium MOFs. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4490-4498	2.3	85
580	Transmission electron microscopy on metal-organic frameworks – a review. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14969-14989	13	84
579	A Method for the Preparation of Highly Porous, Nanosized Crystals of Isorecticular Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2011 , 11, 185-189	3.5	84
578	Quantum-Confined Gallium Nitride in MCM-41. <i>Advanced Materials</i> , 1999 , 11, 1444-1448	24	84

577	Local transformation of ZIF-8 powders and coatings into ZnO nanorods for photocatalytic application. <i>Nanoscale</i> , 2014 , 6, 2056-60	7.7	83
576	Functionalized coordination space in metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8164-8	16.4	83
575	Urchin-like ZnO nanorod arrays for gas sensing applications. <i>CrystEngComm</i> , 2010 , 12, 3419	3.3	82
574	Nanometer-sized titania hosted inside MOF-5. <i>Chemical Communications</i> , 2009 , 119-21	5.8	82
573	Characterization of interfacial water in MOF-5 (Zn ₄ (O)(BDC) ₃)—a combined spectroscopic and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4732-9	3.6	82
572	Metal-organic framework thin films: crystallite orientation dependent adsorption. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3402-5	16.4	81
571	Hollow Zn/Co Zeolitic Imidazolate Framework (ZIF) and Yolk-Shell Metal@Zn/Co ZIF Nanostructures. <i>Chemistry - A European Journal</i> , 2016 , 22, 3304-3311	4.8	81
570	Bifunktionale Sauerstoffelektroden durch Einbettung von Co@Co ₃ O ₄ -Nanopartikeln in CNT-gekoppelte Stickstoff-dotierte Kohlenstoffpolyeder. <i>Angewandte Chemie</i> , 2016 , 128, 4155-4160	3.6	80
569	Liquid exfoliation of alkyl-ether functionalised layered metal-organic frameworks to nanosheets. <i>Chemical Communications</i> , 2016 , 52, 10474-7	5.8	78
568	Twelve one-electron ligands coordinating one metal center: structure and bonding of [Mo(ZnCH ₃) ₉ (ZnCp*) ₃]. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9150-4	16.4	78
567	Reductive elimination: a pathway to low-valent aluminium species. <i>Chemical Communications</i> , 2013 , 49, 2858-60	5.8	77
566	High-throughput and time-resolved energy-dispersive X-ray diffraction (EDXRD) study of the formation of CAU-1-(OH) ₂ : microwave and conventional heating. <i>Chemistry - A European Journal</i> , 2011 , 17, 6462-8	4.8	77
565	Hydrophobic Metal-Organic Frameworks. <i>Advanced Materials</i> , 2019 , 31, e1900820	24	76
564	[(η^5 -Cp*)Al η^5 -Fe(CO) ₄] η^5 Synthese, Struktur, Bindungsverhältnisse. <i>Angewandte Chemie</i> , 1997 , 109, 95-97	3.6	76
563	Triazidogallium and Derivatives: New Precursors to Thin Films and Nanoparticles of GaN. <i>Chemistry - A European Journal</i> , 1996 , 2, 1353-1358	4.8	76
562	Multiple bonds between transition metals and main-group elements. 72. Organorhenium imido complexes: syntheses, structure, and reactivity. <i>Organometallics</i> , 1990 , 9, 489-496	3.8	76
561	Tandem MOF-Based Photonic Crystals for Enhanced Analyte-Specific Optical Detection. <i>Chemistry of Materials</i> , 2015 , 27, 1961-1970	9.6	75
560	Low-temperature atomic layer deposition of copper metal thin films: self-limiting surface reaction of copper dimethylamino-2-propoxide with diethylzinc. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4536-9	16.4	75

559	A New Class of Lasing Materials: Intrinsic Stimulated Emission from Nonlinear Optically Active Metal-Organic Frameworks. <i>Advanced Materials</i> , 2017 , 29, 1605637	24	74
558	Synthesis and characterization of the open-framework barium bisphosphonate [Ba ₃ (O ₃ PCH ₂ NH ₂ CH ₂ PO ₃) ₂ (H ₂ O) ₄].3H ₂ O. <i>Inorganic Chemistry</i> , 2005 , 44, 9464-70	5.1	74
557	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. <i>Nanoscale</i> , 2014 , 6, 3116-26	7.7	73
556	A metal-organic framework for efficient water-based ultra-low-temperature-driven cooling. <i>Nature Communications</i> , 2019 , 10, 3025	17.4	72
555	Shape-Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithium-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , 2019 , 29, 1902539	15.6	71
554	Plasma-assisted synthesis of Ag/ZnO nanocomposites: First example of photo-induced H ₂ production and sensing. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 15527-15537	6.7	71
553	Detonations of Gallium Azides: A Simple Route to Hexagonal GaN Nanocrystals. <i>Journal of the American Chemical Society</i> , 1998 , 120, 3512-3513	16.4	71
552	Unravelling the Redox-catalytic Behavior of Ce Metal-Organic Frameworks by X-ray Absorption Spectroscopy. <i>ChemPhysChem</i> , 2018 , 19, 373-378	3.2	69
551	[Sn ₁₇ {GaCl(ddp)} ₄]: a high-nuclearity metalloid tin cluster trapped by electrophilic gallium ligands. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7234-7	16.4	69
550	A short Bi=Bi bond supported by a metalloid group 13 ligand. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5526-9	16.4	68
549	Implementation of a temperature-gradient reactor system for high-throughput investigation of phosphonate-based inorganic-organic hybrid compounds. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6857-60	16.4	68
548	Hafnium oxide thin film grown by ALD: An XPS study. <i>Surface Science Spectra</i> , 2007 , 14, 34-40	1.2	68
547	Enhancing the water stability of Al-MIL-101-NH ₂ via postsynthetic modification. <i>Chemistry - A European Journal</i> , 2015 , 21, 314-23	4.8	67
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