Dirk Volkmer

List of Publications by Year
in descending order

149 papers	7,706 citations	44069 48 h-index	54911 84 g-index
156 all docs	156 docs citations	156 times ranked	7867 citing authors

#	Article	IF	Citations
1	Defibrillation of soft porous metal-organic frameworks with electric fields. Science, 2017, 358, 347-351.	12.6	352
2	Properties of 3D-printed fiber-reinforced Portland cement paste. Cement and Concrete Composites, 2017, 79, 62-70.	10.7	310
3	A Thin-Film Electrochromic Device Based on a Polyoxometalate Cluster. Advanced Materials, 2002, 14, 225-228.	21.0	244
4	Toward Nanodevices:Â Synthesis and Characterization of the Nanoporous Surfactant-Encapsulated Keplerate (DODA)40(NH4)2[(H2O)nâŠ‚Mo132O372(CH3COO)30(H2O)72]. Journal of the American Chemical Society, 2000, 122, 1995-1998.	13.7	241
5	Surfactant-Encapsulated Clusters (SECs): (DODA)20(NH4)[H3Mo57V6(NO)6O183(H2O)18], a Case Study. Chemistry - A European Journal, 2000, 6, 385-393.	3.3	237
6	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	2.8	236
7	The Structure of Self-Assembled Multilayers with Polyoxometalate Nanoclusters. Journal of the American Chemical Society, 2002, 124, 12279-12287.	13.7	231
8	Elucidating Gating Effects for Hydrogen Sorption in MFUâ€4â€Type Triazolateâ€Based Metalâ€“Organic Frameworks Featuring Different Pore Sizes. Chemistry - A European Journal, 2011, 17, 1837-1848.	3.3	222
9	Coordination Arrays: Tetranuclear Cobalt(II) Complexes with[2Ã— 2]-Grid Structure. Angewandte Chemie International Edition in English, 1997, 36, 1842-1844.	4.4	200
10	Heterogeneous Catalytic Oxidation by MFUâ€1: A Cobalt(II)â€Containing Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2009, 48, 7546-7550.	13.8	190
11	Ultrathin Molybdenum Polyoxometalateâ˜Polyelectrolyte Multilayer Films. Langmuir, 1998, 14, 3462-3465.	3.5	162
12	MFUâ€4 â€“ A Metalâ€Organic Framework for Highly Effective H₂/D₂ Separation. Advanced Materials, 2013, 25, 635-639.	21.0	150
13	Polyoxometalate-Based Electro- and Photochromic Dual-Mode Devices. Langmuir, 2006, 22, 1949-1951.	3.5	147
14	Biologically inspired polyoxometalateâ€“surfactant composite materials. Investigations on the structures of discrete, surfactant-encapsulated clusters, monolayers, and Langmuirâ€“Blodgett films of (DODA)40(NH4)2[(H2O)nâ€…âŠ‚â€…Mo132O372(CH3CO2)30(H2O)72]â€ŠâŠ‚â€. Dalton Transactions RSC, 2000, , 3989-3998.	2.3	145
15	Pyrazolateâ€Based Cobalt(II)â€Containing Metalâ€“Organic Frameworks in Heterogeneous Catalytic Oxidation Reactions: Elucidating the Role of Entatic States for Biomimetic Oxidation Processes. Chemistry - A European Journal, 2011, 17, 8671-8695.	3.3	138
16	Dinuclear Nickel(II) Complexes as Models for the Active Site of Urease. Inorganic Chemistry, 1996, 35, 3792-3803.	4.0	131
17	Intramolecular Antiferromagnetic Coupling in Supramolecular Grid Structures withCo2+Metal Centers. Physical Review Letters, 1997, 78, 3390-3393.	7.8	131
18	Ultrathin Composite Films Incorporating the Nanoporous Isopolyoxomolybdate â€œKeplerateâ€• (NH4)42[Mo132O372(CH3COO)30(H2O)72]. Chemistry of Materials, 2000, 12, 2829-2831.	6.7	124

#	Article	IF	Citations
19	Synthesis, structure, and properties of oligo-tridentate ligands; covalently assembled precursors of coordination arrays. Canadian Journal of Chemistry, 1997, 75, 169-182.	1.1	120
20	Structure and Properties of the Dendron-Encapsulated Polyoxometalate (C52H60NO12)12[(Mn(H2O))3(SbW9O33)2], a First Generation Dendrizyme. Journal of the American Chemical Society, 2002, 124, 10489-10496.	13.7	120
21	A cubic coordination framework constructed from benzobistriazolate ligands and zinc ions having selective gas sorption properties. Dalton Transactions, 2009, , 6487.	3.3	120
22	Scorpionateâ€Type Coordination in MFUâ€4l Metalâ€“Organic Frameworks: Smallâ€Molecule Binding and Activation upon the Thermally Activated Formation of Open Metal Sites. Angewandte Chemie - International Edition, 2014, 53, 5832-5836.	13.8	120
23	Reversible gas-phase redox processes catalyzed by Co-exchanged MFU-4l(arge). Chemical Communications, 2012, 48, 1236-1238.	4.1	108
24	Morphosynthesis of Nacre-Type Laminated CaCO3 Thin Films and Coatings. Angewandte Chemie - International Edition, 2005, 44, 639-644.	13.8	102
25	Portland cement paste with aligned carbon fibers exhibiting exceptionally high flexural strength (>) Tj ETQq1 1 0.784314 rgBT /Ove	11.0	100
26	Capture of heavy hydrogen isotopes in a metal-organic framework with active Cu(I) sites. Nature Communications, 2017, 8, 14496.	12.8	98
27	Polymer Brushes as Ionotropic Matrices for the Directed Fabrication of Microstructured Calcite Thin Films. Angewandte Chemie - International Edition, 2006, 45, 7458-7461.	13.8	97
28	Dielectric Relaxation Processes, Electronic Structure, and Band Gap Engineering of MFUâ€4â€type Metalâ€Organic Frameworks: Towards a Rational Design of Semiconducting Microporous Materials. Advanced Functional Materials, 2014, 24, 3885-3896.	14.9	95
29	Metalâ€“organic frameworks in Germany: From synthesis to function. Coordination Chemistry Reviews, 2019, 380, 378-418.	18.8	91
30	Interfacial electrostatics guiding the crystallization of CaCO3 underneath monolayers of calixarenes and resorcarenesElectronic supplementary information (ESI) available: representative optical and scanning electron micrographs of CaCO3 crystals grown underneath a monolayer of 1 at low surface pressure; additional crystallographic data including numbering schemes, tables and refinement details. See http://www.rsc.org/suppdata/jm/b4/b403132f/. Journal of Materials Chemistry, 2004, 14, 2249.	6.7	89
31	Synthesis of Poly(methacrylic acid) Brushes via Surface-Initiated Atom Transfer Radical Polymerization of Sodium Methacrylate and Their Use as Substrates for the Mineralization of Calcium Carbonate. Macromolecules, 2007, 40, 168-177.	4.8	81
32	Carbon fibre reinforced cement-based composites as smart floor heating materials. Composites Part B: Engineering, 2016, 90, 465-470.	12.0	80
33	Functional Polyoxometalate Thin Films via Electrostatic Layer-by-Layer Self-Assembly. Journal of Cluster Science, 2003, 14, 405-419.	3.3	75
34	Noble gases and microporous frameworks; from interaction to application. Microporous and Mesoporous Materials, 2012, 162, 64-68.	4.4	74
35	Formation of Single-Crystalline Aragonite Tablets/Films via an Amorphous Precursor. Langmuir, 2007, 23, 1988-1994.	3.5	70
36	Postsynthetic Metal and Ligand Exchange in MFUâ€4l: A Screening Approach toward Functional Metalâ€“Organic Frameworks Comprising Singleâ€Site Active Centers. Chemistry - A European Journal, 2015, 21, 8188-8199.	3.3	70

#	Article	IF	Citations
37	Magnetism of self-assembled mono- and tetranuclear supramolecularNi2+complexes. Physical Review B, 1998, 58, 3277-3285.	3.2	69
38	New V^{IV}-Based Metalâ€“Organic Framework Having Framework Flexibility and High CO₂ Adsorption Capacity. Inorganic Chemistry, 2013, 52, 113-120.	4.0	68
39	Partially fluorinated MIL-47 and Al-MIL-53 frameworks: influence of functionalization on sorption and breathing properties. Physical Chemistry Chemical Physics, 2013, 15, 3552.	2.8	63
40	[Ni2(ppepO)(C6H5COO)2(CH3COOH)]ClO4Â·C4H10O:Â Synthesis and Characterization of an Asymmetric Dinuclear Nickel(II) Complex Showing Unusual Coordination Behavior with Relevance to the Active Site of Urease. Inorganic Chemistry, 1996, 35, 1132-1135.	4.0	61
41	Smart Polyoxometalate-Based Nitrogen Monoxide Sensors. Analytical Chemistry, 2004, 76, 4579-4582.	6.5	60
42	A self-assembling metallosupramolecular cage based on cavitandâ€“terpyridine subunits. Tetrahedron Letters, 2008, 49, 5939-5942.	1.4	60
43	Nanosized Ball Joints Constructed from C₆₀ and Tribenzotriquinacene Sockets: Synthesis, Component Selfâ€Assembly and Structural Investigations. Chemistry - A European Journal, 2007, 13, 9931-9938.	3.3	59
44	From Micro to Nano: A Toolbox for Tuning Crystal Size and Morphology of Benzotriazolate-Based Metalâ€“Organic Frameworks. Crystal Growth and Design, 2016, 16, 3190-3197.	3.0	58
45	Acidic peptides acting as growth modifiers of calcite crystalsElectronic Supplementary Information (ESI) available: full analytical characterization of 1 and 2 as well as experimental details on CaCO3 crystal growth and crystallographic analysis of the calcite crystal morphology. See http://www.rsc.org/suppdata/cc/b4/b405613b/. Chemical Communications, 2004, , 1872.	4.1	56
46	CFA-1: the first chiral metalâ€“organic framework containing Kuratowski-type secondary building units. Dalton Transactions, 2013, 42, 10786.	3.3	55
47	Vaterite Polymorph Switching Controlled by Surface Charge Density of an Amphiphilic Dendron-calix[4]arene. Crystal Growth and Design, 2006, 6, 1120-1123.	3.0	54
48	Fast Surface Acoustic Wave-Based Sensors to Investigate the Kinetics of Gas Uptake in Ultra-Microporous Frameworks. ACS Sensors, 2017, 2, 740-747.	7.8	54
49	Vanadium Analogues of Nonfunctionalized and Aminoâ€Functionalized MOFs with MILâ€101 Topology â€“ Synthesis, Characterization, and Gas Sorption Properties. European Journal of Inorganic Chemistry, 2012, 2012, 2481-2486.	2.0	48
50	Synthesis, Structural Characterization, and Catalytic Performance of a Vanadium-Based Metal-Organic Framework (COMOC-3). European Journal of Inorganic Chemistry, 2012, 2012, 2819-2827.	2.0	47
51	Achieving Large Volumetric Gas Storage Capacity in Metalâ€“Organic Frameworks by Kinetic Trapping: A Case Study of Xenon Loading in MFU-4. Journal of the American Chemical Society, 2018, 140, 10191-10197.	13.7	46
52	Syntheses and Magnetostructural Investigations on Kuratowski-Type Homo- and Heteropentanuclear Coordination Compounds [MZn₄Cl₄(L)₆] (M^{II}= Zn, Fe,) Tj ETQq0 0 0 rgBT /Overloc NonplanarK_{3,3}Graph. Inorganic Chemistry, 2010, 49, 7424-7434.	4.0	43
53	Crystallization of (012) oriented calcite single crystals underneath monolayers of tetra(carboxymethoxy)calix[4]arenes. Dalton Transactions RSC, 2002, , 4547.	2.3	42
54	Synthesis and Characterization of Homo- and Heterodinuclear Complexes Containing the N3M(Î¼2-SR)3MN3Core (M = Fe, Co, Ni). Inorganic Chemistry, 1999, 38, 3871-3882.	4.0	41

#	Article	IF	Citations
55	Oriented crystallization of calcite single crystals grown underneath monolayers of tetracarboxyresorc[4]arenes. CrystEngComm, 2002, 4, 288-295.	2.6	40
56	Anisotropic Water-Mediated Proton Conductivity in Large Iron(II) Metalâ€“Organic Framework Single Crystals for Proton-Exchange Membrane Fuel Cells. ACS Applied Nano Materials, 2019, 2, 291-298.	5.0	39
57	Morphosynthesis of Star-Shaped Titaniaâ€“Silica Shells. Angewandte Chemie - International Edition, 2003, 42, 58-61.	13.8	36
58	Sorption and breathing properties of difluorinated MIL-47 and Al-MIL-53 frameworks. Microporous and Mesoporous Materials, 2013, 181, 175-181.	4.4	36
59	Homoâ€•and Heteropentanuclear Coordination Compounds with T_d Symmetry â€“ the Solid State Structures of [MZn₄(L)₄(Lâ€²)₆] (M = Co^{II} or) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (Chemie, 2008, 634, 2532-2538.	1.2	32
60	CFA-2 and CFA-3 (Coordination Framework Augsburg University-2 and -3); novel MOFs assembled from trinuclear Cu(i)/Ag(i) secondary building units and 3,3â€²,5,5â€²-tetraphenyl-bipyrazolate ligands. Dalton Transactions, 2013, 42, 6909.	3.3	32
61	Metal-Organic Frameworks (MOFs) Composed of (Triptycenedicarboxylato)zinc. European Journal of Inorganic Chemistry, 2008, 2008, 2601-2609.	2.0	31
62	High Volumetric Hydrogen Storage Capacity using Interpenetrated Metalâ€“Organic Frameworks. Energy Technology, 2018, 6, 510-512.	3.8	31
63	Elucidating the role of charge density on the growth of CaCO3 crystals underneath Calix[4]arene monolayers. Materials Science and Engineering C, 2005, 25, 161-167.	7.3	30
64	Tribenzotriquinacene Receptors for C₆₀â€…Fullerene Rotors: Towards C₃ Symmetrical Chiral Stators for Unidirectionally Operating Nanoratchets. Chemistry - A European Journal, 2014, 20, 9100-9110.	3.3	30
65	Metalâ€“organic framework nanoparticles for arsenic trioxide drug delivery. Journal of Materials Chemistry B, 2018, 6, 6481-6489.	5.8	30
66	Zeolitic Imidazolate Frameworkâ€8 as pHâ€Sensitive Nanocarrier for â€œArsenic Trioxideâ€•Drug Delivery. Chemistry - A European Journal, 2019, 25, 13189-13196.	3.3	30
67	Comparative solvolytic stabilities of copper(II) nanoballs and dinuclear Cu(II) paddle wheel units. Inorganica Chimica Acta, 2010, 363, 4220-4229.	2.4	29
68	Photophysical properties of Kuratowski-type coordination compounds [MIIZn4Cl4(Me2bta)6] (MII = Zn) Tj ETQq0 0 0 rgBT /Overlock 10	3.3	29
69	Organometallic MFU-4l(arge) Metalâ€“Organic Frameworks. Organometallics, 2019, 38, 3444-3452.	2.3	27
70	Hierarchical <scp>dl</scp>-Glutamic Acid Microspheres from Polymer-Induced Liquid Precursors. Crystal Growth and Design, 2011, 11, 3243-3249.	3.0	26
71	A structurally flexible triazolate-based metalâ€“organic framework featuring coordinatively unsaturated copper(<scp>i</scp>) sites. Dalton Transactions, 2016, 45, 13853-13862.	3.3	26
72	A Zr-Based Metalâ€“Organic Framework with a DUT-52 Structure Containing a Trifluoroacetamido-Functionalized Linker for Aqueous Phase Fluorescence Sensing of the Cyanide Ion and Aerobic Oxidation of Cyclohexane. Inorganic Chemistry, 2021, 60, 4539-4550.	4.0	26

#	Article	IF	Citations
73	Conventional and microwave assisted hydrothermal syntheses of 11 Ã... tobermorite. Journal of Materials Chemistry A, 2013, 1, 10318.	10.3	25
74	Nonanuclear Coordination Compounds Featuring {M₉L₁₂}⁶⁺ Cores (M = Ni^{II}, Co^{II}, or Zn^{II}; L = 1,2,3â€Benzotriazolate). European Journal of Inorganic Chemistry, 2009, 2009, 3094-3101.	2.0	24
75	Glycerol confined in zeolitic imidazolate frameworks: The temperature-dependent cooperativity length scale of glassy freezing. Journal of Chemical Physics, 2019, 150, 024504.	3.0	24
76	Molecular Dynamics Simulations of Dendrimer-Encapsulated Î±-Keggin Ions in Trichloromethane Solution. Journal of Physical Chemistry B, 2008, 112, 5153-5162.	2.6	23
77	Cooperative Large-Hysteresis Spin-Crossover Transition in the Iron(II) Triazolate [Fe(ta)₂] Metalâ€“Organic Framework. Inorganic Chemistry, 2020, 59, 10501-10511.	4.0	23
78	Unveiling the mechanism of selective gate-driven diffusion of CO2 over N2 in MFU-4 metalâ€“organic framework. Dalton Transactions, 2014, 43, 9612-9619.	3.3	22
79	CuN6 Jahnâ€“Teller centers in coordination frameworks comprising fully condensed Kuratowski-type secondary building units: phase transitions and magneto-structural correlations. Dalton Transactions, 2012, 41, 4239.	3.3	21
80	The existence region and composition of a polymer-induced liquid precursor phase for dl-glutamic acid crystals. Physical Chemistry Chemical Physics, 2012, 14, 914-919.	2.8	21
81	Almost Enclosed Buckyball Joints: Synthesis, Complex Formation, and Computational Simulations of Pentypticeneâ€Extended Tribenzotriquinacene. ChemPhysChem, 2014, 15, 3855-3863.	2.1	21
82	Elucidating Lewis acidity of metal sites in MFU-4l metal-organic frameworks: N2O and CO2 adsorption in MFU-4l, CuI-MFU-4l and Li-MFU-4l. Microporous and Mesoporous Materials, 2015, 216, 146-150.	4.4	21
83	Preparation of Hierarchical Mesocrystalline DLâ€LysineÂ·HClâ€“Poly(acrylic acid) Hybrid Thin Films. Advanced Materials, 2011, 23, 3548-3552.	21.0	20
84	Microdomain Transformations in Mosaic Mesocrystal Thin Films. Advanced Functional Materials, 2013, 23, 1547-1555.	14.9	19
85	CFA-7: an interpenetrated metalâ€“organic framework of the MFU-4 family. Dalton Transactions, 2015, 44, 13060-13070.	3.3	19
86	Formation of a quasi-solid structure by intercalated noble gas atoms in pores of Cu^I-MFU-4l metalâ€“organic framework. Chemical Communications, 2015, 51, 714-717.	4.1	18
87	Single-Crystal to Single-Crystal Transformation of a Nonporous Fe(II) Metalâ€“Organic Framework into a Porous Metalâ€“Organic Framework via a Solid-State Reaction. Inorganic Chemistry, 2017, 56, 12337-12347.	4.0	18
88	[Cu4OCl6(DABCO)2]Â·0.5DABCOÂ·4CH3OH (â€œMFU-5â€): Modular synthesis of a zeolite-like metal-organic framework constructed from tetrahedral {Cu4OCl6} secondary building units and linear organic linkers. Journal of Solid State Chemistry, 2010, 183, 208-217.	2.9	17
89	Production of CaCO3/hyperbranched polyglycidol hybrid films using spray-coating technique. Journal of Colloid and Interface Science, 2012, 374, 61-69.	9.4	17
90	Gas sorption and transition-metal cation separation with a thienothiophene based zirconium metalâ€“organic framework. Journal of Solid State Chemistry, 2015, 232, 221-227.	2.9	17

#	Article	IF	Citations
91	CFA-4 â€“ a fluorinated metalâ€“organic framework with exchangeable interchannel cations. Dalton Transactions, 2017, 46, 6745-6755.	3.3	17
92	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. Physical Review B, 2020, 101, .	3.2	17
93	Thermal spin-crossover in the [M3Zn6Cl6L12] (M = Zn, FeII; L = 5,6-dimethoxy-1,2,3-benzotriazolate) system: structural, electrochemical, MÃ¶ssbauer, and UV-Vis spectroscopic studies. Dalton Transactions, 2010, 39, 9851.	3.3	16
94	A Metallosupramolecular Octahedron Assembled from Twelve Copper(I) Metal Ions and Six 4,4â€²â€²(1,2â€Phenylene)bis(3,5â€dimethylpyrazolâ€1â€ide) Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1461-1471.	1.2	16
95	Metal-organic frameworks as host materials of confined supercooled liquids. Journal of Chemical Physics, 2015, 143, 154505.	3.0	14
96	[Co₅Tp*₄(Me₂bta)₆]: A Highly Symmetrical Pentanuclear Kuratowski Complex Featuring Tris(pyrazolyl)borate and Benzotriazolate Ligands. Inorganic Chemistry, 2016, 55, 1053-1060.	4.0	14
97	Cyclic gas-phase heterogeneous process in a metalâ€“organic framework involving a nickel nitrosyl complex. Faraday Discussions, 2017, 201, 101-112.	3.2	14
98	Catalysis in MOFs: general discussion. Faraday Discussions, 2017, 201, 369-394.	3.2	14
99	Computational screening study towards redox-active metal-organic frameworks. New Journal of Physics, 2013, 15, 115004.	2.9	13
100	Zr(IV) and Ce(IV)-based metal-organic frameworks incorporating 4-carboxycinnamic acid as ligand: Synthesis and properties. Microporous and Mesoporous Materials, 2017, 237, 275-281.	4.4	13
101	Novel characterization of the adsorption sites in large pore metalâ€“organic frameworks: combination of X-ray powder diffraction and thermal desorption spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 12892.	2.8	12
102	Dynamic Studies on Kinetic H₂/D₂ Quantum Sieving in a Narrow Pore Metalâ€“Organic Framework Grown on a Sensor Chip. Chemistry - A European Journal, 2019, 25, 10803-10807.	3.3	12
103	Influence of fiber alignment on pseudoductility and microcracking in a cementitious carbon fiber composite material. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	12
104	Synthesis of terpyridine-substituted calix[n]arenes. Tetrahedron Letters, 2009, 50, 1303-1306.	1.4	11
105	Supercooled water confined in a metal-organic framework. Communications Physics, 2020, 3, .	5.3	11
106	An Anthraceneâ€Based Metalâ€Organic Framework for Selective Photoâ€Reduction of Carbon Dioxide to Formic Acid Coupled with Water Oxidation. Chemistry - A European Journal, 2021, 27, 4098-4107.	3.3	11
107	Nanometer-Sized Molybdenumâ€“Iron Oxide Capsule-Surface Modifications: External and Internal. Small, 2007, 3, 986-992.	10.0	10
108	Mixed SAMs of backbone-functionalized tribenzotriquinacenes and alkanethiols: Synthesis, preparation and STM-investigations. Applied Surface Science, 2015, 356, 645-650.	6.1	10

#	Article	IF	Citations
109	Magnetodielectric coupling in a non-perovskite metalâ€“organic framework. Materials Horizons, 2017, 4, 1178-1184.	12.2	10
110	CFA-13 â€“ a bifunctional perfluorinated metalâ€“organic framework featuring active Cu(<scp>i</scp>) and Cu(<scp>ii</scp>) sites. Dalton Transactions, 2017, 46, 14907-14915.	3.3	10
111	CFA-15 â€“ a perfluorinated metalâ€“organic framework with linear 1-D Cu^{II}-chains containing accessible unsaturated, reactive metal centres. Dalton Transactions, 2019, 48, 15236-15246.	3.3	10
112	Coordination arrays Â— Synthesis and characterization of tetranuclear complexes of grid-type. Canadian Journal of Chemistry, 2004, 82, 1428-1434.	1.1	9
113	Dynamics and Equilibrium of the Penetration of Soluble Cetyltrimethylammonium Bromide into Langmuir Monolayers of Arachidic Acid under Different pH Conditions. Journal of Physical Chemistry B, 2004, 108, 16163-16167.	2.6	9
114	Carbon supported Ru clusters prepared by pyrolysis of Ru precursor-impregnated biopolymer fibers. Journal of Materials Chemistry A, 2015, 3, 20919-20926.	10.3	9
115	Flexible chiral pyrazolate-based metalâ€“organic framework containing saddle-type Cu^I₄(pyrazolate)₄units. CrystEngComm, 2016, 18, 7883-7893.	2.6	9
116	One-pot synthesis of ultrastable pentanuclear alkylzinc complexes. Dalton Transactions, 2017, 46, 2618-2625.	3.3	9
117	Preparation of thick silica coatings on carbon fibers with fine-structured silica nanotubes induced by a self-assembly process. Beilstein Journal of Nanotechnology, 2017, 8, 1145-1155.	2.8	9
118	Synthesis and characterization of a flexible metal organic framework generated from Mn^{III} and the 4,4â€²-bipyrazolate-ligand. Dalton Transactions, 2018, 47, 8779-8786.	3.3	9
119	Usage of polymer brushes as substrates of bone cells. Frontiers of Materials Science in China, 2009, 3, 132-144.	0.5	8
120	Plasma-Enhanced Chemical Vapor Deposition of n-Heptane and Methyl Methacrylate for Potential Cell Alignment Applications. ACS Applied Materials & Interfaces, 2012, 4, 5196-5203.	8.0	8
121	Isolated and Linear Arrays of Surfactant-Encapsulated Polyoxometalate Clusters on Graphite. Langmuir, 2008, 24, 2767-2771.	3.5	7
122	Selective Adsorption of Functionalized Nanoparticles to Patterned Polymer Brush Surfaces and Its Probing with an Optical Trap. ChemPhysChem, 2013, 14, 3523-3531.	2.1	7
123	Fe/Ga-CFA-6 â€“ metal organic frameworks featuring trivalent metal centers and the 4,4â€²-bipyrazolyl ligand. CrystEngComm, 2015, 17, 313-322.	2.6	7
124	Influence of surface-modification, length and volume fraction of carbon short fibers on the mechanical properties of calcium aluminate cement systems. Materials Today Communications, 2020, 25, 101704.	1.9	7
125	CFA-18: a homochiral metalâ€“organic framework (MOF) constructed from rigid enantiopure bistriazolate linker molecules. Dalton Transactions, 2020, 49, 15758-15768.	3.3	7
126	New directions in gas sorption and separation with MOFs: general discussion. Faraday Discussions, 2017, 201, 175-194.	3.2	6

#	Article	IF	Citations
127	From molecular modules to modular materials. Pure and Applied Chemistry, 2004, 76, 1847-1867.	1.9	6
128	Coatings from micropatterned sulfobetaine polymer brushes as substrates for MC3T3-E1 cells. Journal of Materials Science: Materials in Medicine, 2012, 23, 573-579.	3.6	5
129	Bistriazole-p-benzoquinone and its alkali salts: electrochemical behaviour in aqueous alkaline solutions. Dalton Transactions, 2017, 46, 12537-12543.	3.3	5
130	CFA-14 â€“ a perfluorinated metalâ€“organic framework with linear 1-D Co^{II}-chains showing temperature dependent spin-chain magnetic ordering. Dalton Transactions, 2018, 47, 12750-12758.	3.3	5
131	Long-term entrapment and temperature-controlled-release of SF₆ gas in metalâ€“organic frameworks (MOFs). Beilstein Journal of Nanotechnology, 2019, 10, 1851-1859.	2.8	5
132	Evaluation of the Behavior of Carbon Short Fiber Reinforced Concrete (CSFRC) Based on a Multi-Sensory Experimental Investigation and a Numerical Multiscale Approach. Materials, 2021, 14, 7005.	2.9	5
133	MOFs modeling and theory: general discussion. Faraday Discussions, 2017, 201, 233-245.	3.2	4
134	Synthesis, Thermal Stability, and Magnetic Properties of a Manganese(II) Coordination Framework Containing Bistriazolate Ligands. European Journal of Inorganic Chemistry, 2019, 2019, 4471-4476.	2.0	4
135	Interfacial Instability as Shaping Mechanism for Polystyrene Particles with Tunable Surface Texture. Advanced Materials Interfaces, 2021, 8, 2100628.	3.7	4
136	3D printing as an automated manufacturing method for a carbon fiber-reinforced cementitious composite with outstanding flexural strength (105ÂN/mm2). Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	4
137	Assembly of Porous Metal Hydrogen-Bonded Organic Frameworks from Diamine-Functionalized Kuratowski Complexes. Crystal Growth and Design, 2022, 22, 379-391.	3.0	4
138	3D characterization of microstructured poly(methacrylic acid) thin films via Machâ€“Zehnder interference microscopy. Thin Solid Films, 2011, 519, 8100-8108.	1.8	3
139	Two 3D Coordination Frameworks Based on Benzobisimidazole Linkers Generated under Similar Conditions: Synthesis, Structures and Thermal Properties. European Journal of Inorganic Chemistry, 2014, 2014, 5362-5369.	2.0	3
140	Zinc(II) Coordination Frameworks Based on Benzobisimidazole: The Role of the Methyl Substituent. European Journal of Inorganic Chemistry, 2017, 2017, 5395-5402.	2.0	3
141	Viscoelasticity and energy dissipation as indicators of flexural fatigue behavior in a ductile carbon fiber-reinforced cementitious composite. International Journal of Fatigue, 2022, 160, 106839.	5.7	3
142	Selfâ€Assembly of Amphiphilic Hexapyridinium Cations at the Air/Water Interface and on HOPG Surfaces. ChemPhysChem, 2007, 8, 2354-2362.	2.1	2
143	Acenaphtho[1,2â€d][1,2,3]triazole and Its Kuratowski Complex. A Ï€â€Extended Tecton for Supramolecular and Coordinative Selfâ€assembly. Chemistry - A European Journal, 2021, , .	3.3	2
144	Synthesis, Thermal Stability and Magnetic Properties of an Interpenetrated Mn(II) Triazolate Coordination Framework. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	1.2	2

#	Article	IF	Citations
145	Thin Films: Microdomain Transformations in Mosaic Mesocrystal Thin Films (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	14.9	1
146	Single crystals of Metal-Organic Framework Ulm-4 grown selectively on a micro-structured plasma polymer coating. Thin Solid Films, 2019, 684, 36-41.	1.8	1
147	Combining Theory and Experiments To Study the Influence of Gas Sorption on the Conductivity Properties of Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2022, 14, 33662-33674.	8.0	1
148	Interfacial Instability as Shaping Mechanism for Polystyrene Particles with Tunable Surface Texture (Adv. Mater. Interfaces 16/2021). Advanced Materials Interfaces, 2021, 8, 2170087.	3.7	0
149	Influencing the Dimensionality of Ni/Coâ€Bipyrazole based Coordination Frameworks through Anions and thermal Activation. European Journal of Inorganic Chemistry, 0, , .	2.0	0