Christof WÃ¶ll

List of Publications by Year
in descending order

429 papers	29,211 citations	3726 89 h-index	7736 150 g-index
461 all docs	461 docs citations	461 times ranked	24517 citing authors

#	Article	IF	Citations
1	MOF thin films: existing and future applications. Chemical Society Reviews, 2011, 40, 1081.	18.7	1,197
2	Thin films of metalâ€“organic frameworks. Chemical Society Reviews, 2009, 38, 1418.	18.7	829
3	Step-by-Step Route for the Synthesis of Metalâˆ’Organic Frameworks. Journal of the American Chemical Society, 2007, 129, 15118-15119.	6.6	811
4	The chemistry and physics of zinc oxide surfaces. Progress in Surface Science, 2007, 82, 55-120.	3.8	733
5	Surface-supported metalâ€“organic framework thin films: fabrication methods, applications, and challenges. Chemical Society Reviews, 2017, 46, 5730-5770.	18.7	549
6	Selective Nucleation and Growth of Metalâˆ’Organic Open Framework Thin Films on Patterned COOH/CF3-Terminated Self-Assembled Monolayers on Au(111). Journal of the American Chemical Society, 2005, 127, 13744-13745.	6.6	535
7	Growth of aromatic molecules on solid substrates for applications in organic electronics. Journal of Materials Research, 2004, 19, 1889-1916.	1.2	501
8	Controlling interpenetration in metalâ€“organic frameworks by liquid-phase epitaxy. Nature Materials, 2009, 8, 481-484.	13.3	500
9	Structure of the catalytically active copperâ€“ceria interfacial perimeter. Nature Catalysis, 2019, 2, 334-341.	16.1	368
10	Growth Mechanism of Metalâ€“Organic Frameworks: Insights into the Nucleation by Employing a Stepâ€byâ€Step Route. Angewandte Chemie - International Edition, 2009, 48, 5038-5041.	7.2	359
11	Exchangelike Effects for Closed-Shell Adsorbates: Interface Dipole and Work Function. Physical Review Letters, 2002, 89, 096104.	2.9	323
12	The identification of hydroxyl groups on ZnO nanoparticles by infrared spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 7092.	1.3	320
13	Photocatalytic Activity of Bulk<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Anatase and Rutile Single Crystals Using Infrared Absorption Spectroscopy. Physical Review Letters, 2011, 106, 138302.	2.9	320
14	Surface Chemistry of Metalâ€“Organic Frameworks at the Liquidâ€“Solid Interface. Angewandte Chemie - International Edition, 2011, 50, 176-199.	7.2	292
15	Charge-transfer-induced structural rearrangements at both sides of organic/metal interfaces. Nature Chemistry, 2010, 2, 374-379.	6.6	273
16	Partial Dissociation of Water Leads to Stable Superstructures on the Surface of Zinc Oxide. Angewandte Chemie - International Edition, 2004, 43, 6641-6645.	7.2	253
17	Organic surfaces exposed by self-assembled organothiol monolayers: Preparation, characterization, and application. Progress in Surface Science, 2009, 84, 230-278.	3.8	249
18	On the Importance of the Headgroup Substrate Bond in Thiol Monolayers:â€‰ A Study of Biphenyl-Based Thiols on Gold and Silver. Langmuir, 2001, 17, 1582-1593.	1.6	246

#	Article	IF	Citations
19	Preparation, Modification, and Crystallinity of Aliphatic and Aromatic Carboxylic Acid Terminated Self-Assembled Monolayers. Langmuir, 2002, 18, 3980-3992.	1.6	226
20	Vacuum level alignment at organic/metal junctions: â€œCushionâ€•effect and the interface dipole. Applied Physics Letters, 2005, 87, 263502.	1.5	223
21	Tracking the formation, fate and consequence for catalytic activity of Pt single sites on CeO2. Nature Catalysis, 2020, 3, 824-833.	16.1	209
22	High-Throughput Fabrication of Uniform and Homogenous MOF Coatings. Advanced Functional Materials, 2011, 21, 4228-4231.	7.8	208
23	Tunable molecular separation by nanoporous membranes. Nature Communications, 2016, 7, 13872.	5.8	208
24	Photoinduced Chargeâ€Carrier Generation in Epitaxial MOF Thin Films: High Efficiency as a Result of an Indirect Electronic Band Gap?. Angewandte Chemie - International Edition, 2015, 54, 7441-7445.	7.2	206
25	Formation of oriented and patterned films of metalâ€“organic frameworks by liquid phase epitaxy: A review. Coordination Chemistry Reviews, 2016, 307, 391-424.	9.5	193
26	Active Sites on Oxide Surfaces: ZnO-Catalyzed Synthesis of Methanol from CO and H2. Angewandte Chemie - International Edition, 2005, 44, 2790-2794.	7.2	192
27	Covalent Interlinking of an Aldehyde and an Amine on a Au(111) Surface in Ultrahigh Vacuum. Angewandte Chemie - International Edition, 2007, 46, 9227-9230.	7.2	191
28	Enantiopure Metalâ€“Organic Framework Thin Films: Oriented SURMOF Growth and Enantioselective Adsorption. Angewandte Chemie - International Edition, 2012, 51, 807-810.	7.2	189
29	Surface Faceting and Reconstruction of Ceria Nanoparticles. Angewandte Chemie - International Edition, 2017, 56, 375-379.	7.2	185
30	Advanced Photoresponsive Materials Using the Metalâ€“Organic Framework Approach. Advanced Materials, 2020, 32, e1905227.	11.1	184
31	A novel series of isoreticular metal organic frameworks: realizing metastable structures by liquid phase epitaxy. Scientific Reports, 2012, 2, 921.	1.6	183
32	MOFâ€Templated Synthesis of Ultrasmall Photoluminescent Carbonâ€Nanodot Arrays for Optical Applications. Angewandte Chemie - International Edition, 2017, 56, 6853-6858.	7.2	179
33	Selective Growth and MOCVD Loading of Small Single Crystals of MOF-5 at Alumina and Silica Surfaces Modified with Organic Self-Assembled Monolayersâ€. Chemistry of Materials, 2007, 19, 2168-2173.	3.2	174
34	Stability of the polar surfaces of ZnO: A reinvestigation using He-atom scattering. Physical Review B, 2002, 66, .	1.1	167
35	Highly oriented MOF thin film-based electrocatalytic device for the reduction of CO₂ to CO exhibiting high faradaic efficiency. Journal of Materials Chemistry A, 2016, 4, 15320-15326.	5.2	166
36	The surface barrier phenomenon at the loading of metal-organic frameworks. Nature Communications, 2014, 5, 4562.	5.8	165

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37	IR spectroscopic investigations of chemical and photochemical reactions on metal oxides: bridging the materials gap. Chemical Society Reviews, 2017, 46, 1875-1932.	18.7	165
38	Determination of Site Specific Adsorption Energies of CO on Copper. Catalysis Letters, 2001, 77, 97-101.	1.4	161
39	Tuning the Work Function of Polar Zinc Oxide Surfaces using Modified Phosphonic Acid Selfâ€Assembled Monolayers. Advanced Functional Materials, 2014, 24, 7014-7024.	7.8	160
40	Chemical Activity of Thin Oxide Layers: Strong Interactions with the Support Yield a New Thinâ€Film Phase of ZnO. Angewandte Chemie - International Edition, 2013, 52, 11925-11929.	7.2	158
41	Photoswitching in Two-Component Surface-Mounted Metalâ€"Organic Frameworks: Optically Triggered Release from a Molecular Container. ACS Nano, 2014, 8, 1463-1467.	7.3	158
42	Self-Assembled Monolayers of Ï‰-Biphenylalkanethiols on Au(111):â€‰ Influence of Spacer Chain on Molecular Packing. Journal of Physical Chemistry B, 2004, 108, 4989-4996.	1.2	157
43	Deprotonation-Driven Phase Transformations in Terephthalic Acid Self-Assembly on Cu(100). Journal of Physical Chemistry B, 2004, 108, 19392-19397.	1.2	156
44	Liquidâ€Phase Epitaxy of Multicomponent Layerâ€Based Porous Coordination Polymer Thin Films of [M(L)(P)0.5] Type: Importance of Deposition Sequence on the Oriented Growth. Chemistry - A European Journal, 2011, 17, 1448-1455.	1.7	155
45	Self-metalation of 2H-tetraphenylporphyrin on Cu(111): An x-ray spectroscopy study. Journal of Chemical Physics, 2012, 136, 014705.	1.2	154
46	A Comprehensive Study of Self-Assembled Monolayers of Anthracenethiol on Gold:Â Solvent Effects, Structure, and Stability. Journal of the American Chemical Society, 2006, 128, 1723-1732.	6.6	150
47	Fabrication of a Carboxyl-Terminated Organic Surface with Self-Assembly of Functionalized Terphenylthiols:Â The Importance of Hydrogen Bond Formation. Journal of the American Chemical Society, 1998, 120, 12069-12074.	6.6	147
48	MOF-on-MOF heteroepitaxy: perfectly oriented [Zn2(ndc)2(dabco)]n grown on [Cu2(ndc)2(dabco)]n thin films. Dalton Transactions, 2011, 40, 4954.	1.6	146
49	A novel method to measure diffusion coefficients in porous metalâ€"organic frameworks. Physical Chemistry Chemical Physics, 2010, 12, 8092.	1.3	141
50	Surfaceâ€Mounted Metalâ€"Organic Frameworks: Crystalline and Porous Molecular Assemblies for Fundamental Insights and Advanced Applications. Advanced Materials, 2019, 31, e1806324.	11.1	134
51	Molecular Mechanisms of Electron-Induced Cross-Linking in Aromatic SAMs. Langmuir, 2009, 25, 7342-7352.	1.6	132
52	The Interaction of Water with the Oxygen-Terminated, Polar Surface of ZnO. Journal of Physical Chemistry B, 2003, 107, 14350-14356.	1.2	131
53	The controlled growth of oriented metalâ€"organic frameworks on functionalized surfaces as followed by scanning force microscopy. Physical Chemistry Chemical Physics, 2008, 10, 7257.	1.3	130
54	Nanoporous Designer Solids with Huge Lattice Constant Gradients: Multiheteroepitaxy of Metalâ€"Organic Frameworks. Nano Letters, 2014, 14, 1526-1529.	4.5	130

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55	Layer-by-Layer Growth of Oriented Metal Organic Polymers on a Functionalized Organic Surface. Langmuir, 2007, 23, 7440-7442.	1.6	127
56	Diffusion versus Desorption: Complex Behavior of H Atoms on an Oxide Surface. ChemPhysChem, 2008, 9, 253-256.	1.0	127
57	Bonding and Orientation in Self-Assembled Monolayers of Oligophenyldithiols on Au Substrates. Langmuir, 2002, 18, 7766-7769.	1.6	126
58	Surface-mounted metal-organic frameworks for applications in sensing and separation. Microporous and Mesoporous Materials, 2015, 216, 200-215.	2.2	126
59	Photon Upconversion at Crystalline Organicâ€"Organic Heterojunctions. Advanced Materials, 2016, 28, 8477-8482.	11.1	125
60	Conformational Adaptation and Selective Adatom Capturing of Tetrapyridyl-porphyrin Molecules on a Copper (111) Surface. Journal of the American Chemical Society, 2007, 129, 11279-11285.	6.6	122
61	Chemistry of SURMOFs: Layer-Selective Installation of Functional Groups and Post-synthetic Covalent Modification Probed by Fluorescence Microscopy. Journal of the American Chemical Society, 2011, 133, 1734-1737.	6.6	122
62	Defects in MOFs: A Thorough Characterization. ChemPhysChem, 2012, 13, 2025-2029.	1.0	121
63	Coexistence of Different Structural Phases in Thioaromatic Monolayers on Au(111). Langmuir, 2003, 19, 4958-4968.	1.6	120
64	Peptide-Based SAMs that Resist the Adsorption of Proteins. Journal of the American Chemical Society, 2008, 130, 14952-14953.	6.6	120
65	Metalâ€"Support Interactions of Platinum Nanoparticles Decorated N-Doped Carbon Nanofibers for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 82-90.	4.0	120
66	Growth and structure of pentacene films on graphite: Weak adhesion as a key for epitaxial film growth. Physical Review B, 2010, 81, .	1.1	118
67	Photoconductivity in Metalâ€"Organic Framework (MOF) Thin Films. Angewandte Chemie - International Edition, 2019, 58, 9590-9595.	7.2	118
68	Light-Driven Water Splitting for (Bio-)Hydrogen Production: Photosystem 2 as the Central Part of a Bioelectrochemical Device. Photochemistry and Photobiology, 2006, 82, 1385.	1.3	117
69	Ionic Hydrogen Bonds Controlling Two-Dimensional Supramolecular Systems at a Metal Surface. Chemistry - A European Journal, 2007, 13, 3900-3906.	1.7	117
70	Epitaxially grown metal-organic frameworks. Materials Today, 2012, 15, 110-116.	8.3	117
71	Preparation of Freestanding Conjugated Microporous Polymer Nanomembranes for Gas Separation. Chemistry of Materials, 2014, 26, 7189-7193.	3.2	117
72	Structural Characterization of Organothiolate Adlayers on Gold:Â The Case of Rigid, Aromatic Backbones. Langmuir, 2001, 17, 3689-3695.	1.6	116

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73	Intercalation in Layered Metalâ€“Organic Frameworks: Reversible Inclusion of an Extended Ï€-System. Journal of the American Chemical Society, 2011, 133, 8158-8161.	6.6	116
74	Fabrication of Highly Uniform Gel Coatings by the Conversion of Surface-Anchored Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2014, 136, 8-11.	6.6	116
75	Transparent films of metal-organic frameworks for optical applications. Microporous and Mesoporous Materials, 2015, 211, 82-87.	2.2	114
76	Two-Dimensional Adatom Gas Bestowing Dynamic Heterogeneity on Surfaces. Angewandte Chemie - International Edition, 2005, 44, 1488-1491.	7.2	112
77	Metalâ€“Organic Framework-Templated Biomaterials: Recent Progress in Synthesis, Functionalization, and Applications. Accounts of Chemical Research, 2019, 52, 1598-1610.	7.6	112
78	On the dielectric and optical properties of surface-anchored metal-organic frameworks: A study on epitaxially grown thin films. Applied Physics Letters, 2013, 103, .	1.5	111
79	Magnetic Cores with Porous Coatings: Growth of Metalâ€Organic Frameworks on Particles Using Liquid Phase Epitaxy. Advanced Functional Materials, 2013, 23, 1210-1213.	7.8	111
80	O₂ Activation on Ceria Catalystsâ€”The Importance of Substrate Crystallographic Orientation. Angewandte Chemie - International Edition, 2017, 56, 16399-16404.	7.2	106
81	Spectroscopic evidence for the partial dissociation of H2O on ZnO(101Ì„0). Physical Chemistry Chemical Physics, 2006, 8, 1521.	1.3	104
82	Methanol synthesis over ZnO: A structure-sensitive reaction?. Physical Chemistry Chemical Physics, 2003, 5, 4736-4742.	1.3	101
83	The interaction of C6H6 and C6H12 with noble metal surfaces: Electronic level alignment and the origin of the interface dipole. Journal of Chemical Physics, 2005, 123, 184109.	1.2	101
84	Molecular Orientation at Rubbed Polyimide Surfaces Determined with X-ray Absorption Spectroscopy:â€‰ Relevance for Liquid Crystal Alignment. Macromolecules, 1998, 31, 1930-1936.	2.2	100
85	CO2 Activation by ZnO through the Formation of an Unusual Tridentate Surface Carbonate. Angewandte Chemie - International Edition, 2007, 46, 5624-5627.	7.2	98
86	Epitaxial Growth of Pentacene Films on Metal Surfaces. ChemPhysChem, 2004, 5, 266-270.	1.0	97
87	Visualizing the Frontier Orbitals of a Conformationally Adapted Metalloporphyrin. ChemPhysChem, 2008, 9, 89-94.	1.0	96
88	Observation of a Kohn Anomaly in the Surface-Phonon Dispersion Curves of Pt(111). Physical Review Letters, 1985, 55, 2308-2311.	2.9	93
89	Competition as a Design Concept:Â Polymorphism in Self-Assembled Monolayers of Biphenyl-Based Thiols. Journal of the American Chemical Society, 2006, 128, 13868-13878.	6.6	91
90	Redox mediation enabled by immobilised centres in the pores of a metalâ€“organic framework grown by liquid phase epitaxy. Chemical Communications, 2012, 48, 663-665.	2.2	91

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91	Photoswitching in nanoporous, crystalline solids: an experimental and theoretical study for azobenzene linkers incorporated in MOFs. Physical Chemistry Chemical Physics, 2015, 17, 14582-14587.	1.3	91
92	Functionalized Coordination Space in Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2008, 47, 8164-8168.	7.2	89
93	Determination of Molecular Orientation in Self-Assembled Monolayers Using IR Absorption Intensities: The Importance of Grinding Effects. Langmuir, 2001, 17, 4980-4989.	1.6	84
94	Carbon materials for the positive electrode in all-vanadium redox flow batteries. Carbon, 2014, 78, 220-230.	5.4	83
95	Electric Transport Properties of Surface-Anchored Metalâ€“Organic Frameworks and the Effect of Ferrocene Loading. ACS Applied Materials & Interfaces, 2015, 7, 9824-9830.	4.0	83
96	Chiral Porous Metacrystals: Employing Liquid-Phase Epitaxy to Assemble Enantiopure Metalâ€“Organic Nanoclusters into Molecular Framework Pores. ACS Nano, 2016, 10, 977-983.	7.3	83
97	Mechanical properties of metal-organic frameworks: An indentation study on epitaxial thin films. Applied Physics Letters, 2012, 101, .	1.5	82
98	FAIR data enabling new horizons for materials research. Nature, 2022, 604, 635-642.	13.7	81
99	Activation of Carbon Dioxide on ZnO Nanoparticles Studied by Vibrational Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 908-914.	1.5	79
100	Probing electrons in TiO2 polaronic trap states by IR-absorption: Evidence for the existence of hydrogenic states. Scientific Reports, 2014, 4, 3808.	1.6	79
101	Grafting Zirconium-Based Metalâ€“Organic Framework UiO-66-NH₂ Nanoparticles on Cellulose Fibers for the Removal of Cr(VI) Ions and Methyl Orange from Water. ACS Applied Nano Materials, 2019, 2, 5804-5808.	2.4	79
102	Water adsorption on the hydroxylated H-(1 Ã— 1) O-ZnO(0001Ì„) surface. Physical Chemistry Chemical Physics, 2006, 8, 1505.	1.3	78
103	Selenium as a Key Element for Highly Ordered Aromatic Selfâ€Assembled Monolayers. Angewandte Chemie - International Edition, 2008, 47, 5250-5252.	7.2	78
104	Ionization Energies of Shallow Donor States in ZnO Created by Reversible Formation and Depletion of H Interstitials. Physical Review Letters, 2008, 101, 236401.	2.9	78
105	Stress in Self-Assembled Monolayers:Â Ï‰-Biphenyl Alkane Thiols on Au(111). Journal of Physical Chemistry B, 2005, 109, 10902-10908.	1.2	77
106	Chemical Vapor Deposition and Synthesis on Carbon Nanofibers:Â Sintering of Ferrocene-Derived Supported Iron Nanoparticles and the Catalytic Growth of Secondary Carbon Nanofibers. Chemistry of Materials, 2005, 17, 5737-5742.	3.2	76
107	Structural characterization of self-assembled monolayers of pyridine-terminated thiolates on gold. Physical Chemistry Chemical Physics, 2010, 12, 4459.	1.3	76
108	Surface properties and graphitization of polyacrylonitrile based fiber electrodes affecting the negative half-cell reaction in vanadium redox flow batteries. Journal of Power Sources, 2016, 321, 210-218.	4.0	76

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109	<scp>l</scp>-Cysteine on Ag(111): A Combined STM and X-ray Spectroscopy Study of Anchorage and Deprotonation. Journal of Physical Chemistry C, 2012, 116, 20356-20362.	1.5	75
110	Post-Synthetic Modification of Metalâ€"Organic Framework Thin Films Using Click Chemistry: The Importance of Strained Câ€"C Triple Bonds. Langmuir, 2013, 29, 15958-15964.	1.6	75
111	A new class of epitaxial porphyrin metalâ€"organic framework thin films with extremely high photocarrier generation efficiency: promising materials for all-solid-state solar cells. Journal of Materials Chemistry A, 2016, 4, 12739-12747.	5.2	75
112	Self-assembly of 1-nitronaphthalene on Au(111). Surface Science, 2000, 444, 199-210.	0.8	74
113	Enantioselective adsorption in homochiral metalâ€"organic frameworks: the pore size influence. Chemical Communications, 2015, 51, 8998-9001.	2.2	74
114	High Antimicrobial Activity of Metalâ€"Organic Framework-Templated Porphyrin Polymer Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 1528-1533.	4.0	74
115	Sprayable, Largeâ€Area Metalâ€"Organic Framework Films and Membranes of Varying Thickness. Chemistry - A European Journal, 2017, 23, 2294-2298.	1.7	73
116	Interplay of Electronic and Steric Effects to Yield Lowâ€Temperature CO Oxidation at Metal Single Sites in Defectâ€Engineered HKUSTâ€1. Angewandte Chemie - International Edition, 2020, 59, 10514-10518.	7.2	73
117	Ruthenium Metalâ€"Organic Frameworks with Different Defect Types: Influence on Porosity, Sorption, and Catalytic Properties. Chemistry - A European Journal, 2016, 22, 14297-14307.	1.7	72
118	Thermally activated dewetting of organic thin films: theÂcaseÂofÂpentacene onÂSiO2ÂandÂgold. Applied Physics A: Materials Science and Processing, 2009, 95, 273-284.	1.1	71
119	A new dual-purpose ultrahigh vacuum infrared spectroscopy apparatus optimized for grazing-incidence reflection as well as for transmission geometries. Review of Scientific Instruments, 2009, 80, 113108.	0.6	71
120	Molecular weaving via surface-templated epitaxy of crystalline coordination networks.. Nature Communications, 2017, 8, 14442.	5.8	70
121	The Biocompatibility of Metalâ€"Organic Framework Coatings: An Investigation on the Stability of SURMOFs with Regard to Water and Selected Cell Culture Media. Langmuir, 2012, 28, 6877-6884.	1.6	68
122	The Surface Science Approach for Understanding Reactions on Oxide Powders: The Importance of IR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 4731-4734.	7.2	68
123	Deposition of Metal-Organic Frameworks by Liquid-Phase Epitaxy: The Influence of Substrate Functional Group Density on Film Orientation. Materials, 2012, 5, 1581-1592.	1.3	67
124	Twoâ€dimensional crystal structure of single Langmuirâ€"Blodgett films deposited on noble metal single crystals studied with LEED. Journal of Chemical Physics, 1986, 84, 5200-5204.	1.2	65
125	Probing the interaction of the amino acid alanine with the surface of ZnO. Journal of Colloid and Interface Science, 2009, 338, 16-21.	5.0	65
126	Carbon nanowalls: the next step for physical manifestation of the black body coating. Scientific Reports, 2013, 3, 3328.	1.6	64

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127	cis-to-trans isomerization of azobenzene investigated by using thin films of metalâ€“organic frameworks. Physical Chemistry Chemical Physics, 2015, 17, 22721-22725.	1.3	64
128	Proximity Effect in Crystalline Framework Materials: Stackingâ€Induced Functionality in MOFs and COFs. Advanced Functional Materials, 2020, 30, 1908004.	7.8	64
129	Molecular orientation of terephthalic acid assembly on epitaxial graphene: NEXAFS and XPS study. Physical Chemistry Chemical Physics, 2012, 14, 10125.	1.3	63
130	Superexchange Charge Transport in Loaded Metal Organic Frameworks. ACS Nano, 2016, 10, 7085-7093.	7.3	62
131	Resolving the depth coordinate in photoelectron spectroscopy â€“ Comparison of excitation energy variation vs. angular-resolved XPS for the analysis of a self-assembled monolayer model system. Surface Science, 2008, 602, 755-767.	0.8	61
132	MOCVD-Loading of Mesoporous Siliceous Matrices with Cu/ZnO: Supported Catalysts for Methanol Synthesis. Angewandte Chemie - International Edition, 2004, 43, 2839-2842.	7.2	60
133	Influence of Molecular Structure on Phase Transitions:â€‰ A Study of Self-Assembled Monolayers of 2-(Aryl)-ethane Thiols. Journal of Physical Chemistry C, 2007, 111, 16909-16919.	1.5	60
134	Surfaceâ€Anchored MOFâ€Based Photonic Antennae. ChemPhysChem, 2012, 13, 2699-2702.	1.0	60
135	Advanced Applications of NEXAFS Spectroscopy for Functionalized Surfaces. Springer Series in Surface Sciences, 2013, , 277-303.	0.3	60
136	Defects as Color Centers: The Apparent Color of Metalâ€“Organic Frameworks Containing Cu²⁺-Based Paddle-Wheel Units. ACS Applied Materials & Interfaces, 2017, 9, 37463-37467.	4.0	60
137	The adsorption of hydrogen on the rutile TiO2(110) surface. Physical Chemistry Chemical Physics, 2004, 6, 4203-4207.	1.3	59
138	Post-synthetic modification of epitaxially grown, highly oriented functionalized MOF thin films. Chemical Communications, 2011, 47, 11210.	2.2	59
139	A Multitechnique Study of CO Adsorption on the TiO₂ Anatase (101) Surface. Journal of Physical Chemistry C, 2015, 119, 21044-21052.	1.5	59
140	Carbonâˆ’Carbon Bond Formation on Model Titanium Oxide Surfaces: Identification of Surface Reaction Intermediates by High-Resolution Electron Energy Loss Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 9828-9834.	1.5	58
141	Rational Design of Two-Dimensional Nanoscale Networks by Electrostatic Interactions at Surfaces. ACS Nano, 2010, 4, 1813-1820.	7.3	58
142	Dissociation of formic acid on anatase TiO2(101) probed by vibrational spectroscopy. Catalysis Today, 2012, 182, 12-15.	2.2	58
143	Resistive Switching Nanodevices Based on Metalâ€“Organic Frameworks. ChemNanoMat, 2016, 2, 67-73.	1.5	58
144	Hierarchical assemblies of molecular frameworksâ€”MOF-on-MOF epitaxial heterostructures. Nano Research, 2021, 14, 355-368.	5.8	58

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145	Work Function Changes Induced by Charged Adsorbates: Origin of the Polarity Asymmetry. Physical Review Letters, 2008, 100, 126101.	2.9	57
146	Oriented Circular Dichroism Analysis of Chiral Surfaceâ€Anchored Metalâ€“Organic Frameworks Grown by Liquidâ€Phase Epitaxy and upon Loading with Chiral Guest Compounds. Chemistry - A European Journal, 2014, 20, 9879-9882.	1.7	57
147	Experimental and theoretical investigations of the electronic band structure of metal-organic frameworks of HKUST-1 type. Applied Physics Letters, 2015, 107, .	1.5	57
148	Electrically Conductive, Monolithic Metalâ€“Organic Frameworkâ€“Graphene (MOF@G) Composite Coatings. ACS Applied Materials & Interfaces, 2019, 11, 6442-6447.	4.0	57
149	Interaction of ethylbenzene and styrene with iron oxide model catalyst films at low coverages: A NEXAFS study. Physical Chemistry Chemical Physics, 2000, 2, 5314-5319.	1.3	56
150	Direct monitoring of photo-induced reactions on well-defined metal oxide surfaces using vibrational spectroscopy. Chemical Physics Letters, 2008, 460, 10-12.	1.2	56
151	Adsorption and diffusion in thin films of nanoporous metalâ€“organic frameworks: ferrocene in SURMOF Cu2(ndc)2(dabco). Physical Chemistry Chemical Physics, 2013, 15, 9295.	1.3	56
152	Grafting of Monocarboxylic Substituted Polychlorotriphenylmethyl Radicals onto a COOH-Functionalized Self-Assembled Monolayer through Copper (II) Metal Ions. Langmuir, 2008, 24, 6640-6648.	1.6	54
153	Monolithic High Performance Surface Anchored Metalâ˘Organic Framework Bragg Reflector for Optical Sensing. Chemistry of Materials, 2015, 27, 1991-1996.	3.2	54
154	Interaction of Formaldehyde with the Rutile TiO₂(110) Surface: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2016, 120, 12626-12636.	1.5	54
155	Anisotropic energy transfer in crystalline chromophore assemblies. Nature Communications, 2018, 9, 4332.	5.8	54
156	Series of Photoswitchable Azobenzene-Containing Metalâ€“Organic Frameworks with Variable Adsorption Switching Effect. Journal of Physical Chemistry C, 2018, 122, 19044-19050.	1.5	54
157	Tuning the Reactivity of Oxide Surfaces by Chargeâ€Accepting Adsorbates. Angewandte Chemie - International Edition, 2007, 46, 7315-7318.	7.2	53
158	Energy-dispersive X-ray reflectivity and GID for real-time growth studies of pentacene thin films. Thin Solid Films, 2007, 515, 5606-5610.	0.8	53
159	Evidence for photogenerated intermediate hole polarons in ZnO. Nature Communications, 2015, 6, 6901.	5.8	53
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