Paolo Falcaro

List of Publications by Year
in descending order

168 papers	13,796 citations	26630 56 h-index	22166 113 g-index
196 all docs	196 docs citations	196 times ranked	12936 citing authors

#	Article	IF	Citations
1	Biomimetic mineralization of metal-organic frameworks as protective coatings for biomacromolecules. Nature Communications, 2015, 6, 7240.	12.8	1,077
2	An updated roadmap for the integration of metalâ€“organic frameworks with electronic devices and chemical sensors. Chemical Society Reviews, 2017, 46, 3185-3241.	38.1	987
3	MOF positioning technology and device fabrication. Chemical Society Reviews, 2014, 43, 5513-5560.	38.1	600
4	Chemical vapour deposition of zeolitic imidazolate framework thinÂfilms. Nature Materials, 2016, 15, 304-310.	27.5	528
5	Application of metal and metal oxide nanoparticles@MOFs. Coordination Chemistry Reviews, 2016, 307, 237-254.	18.8	479
6	Metalâ€“Organic Frameworks at the Biointerface: Synthetic Strategies and Applications. Accounts of Chemical Research, 2017, 50, 1423-1432.	15.6	464
7	Metalâ€“Organic Framework-Based Enzyme Biocomposites. Chemical Reviews, 2021, 121, 1077-1129.	47.7	372
8	Enhanced Activity of Enzymes Encapsulated in Hydrophilic Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 2348-2355.	13.7	351
9	Centimetre-scale micropore alignment in oriented polycrystalline metalâ€“organic framework films via heteroepitaxial growth. Nature Materials, 2017, 16, 342-348.	27.5	298
10	Applications of magnetic metalâ€“organic framework composites. Journal of Materials Chemistry A, 2013, 1, 13033.	10.3	275
11	Using Functional Nano- and Microparticles for the Preparation of Metalâ€“Organic Framework Composites with Novel Properties. Accounts of Chemical Research, 2014, 47, 396-405.	15.6	264
12	Metalâ€“Organic Framework Coatings as Cytoprotective Exoskeletons for Living Cells. Advanced Materials, 2016, 28, 7910-7914.	21.0	254
13	Enzyme encapsulation in zeolitic imidazolate frameworks: a comparison between controlled co-precipitation and biomimetic mineralisation. Chemical Communications, 2016, 52, 473-476.	4.1	230
14	A new method to position and functionalize metal-organic framework crystals. Nature Communications, 2011, 2, 237.	12.8	225
15	Metalâ€“Organic Frameworks for Cell and Virus Biology: A Perspective. ACS Nano, 2018, 12, 13-23.	14.6	214
16	Enzyme Encapsulation in a Porous Hydrogen-Bonded Organic Framework. Journal of the American Chemical Society, 2019, 141, 14298-14305.	13.7	210
17	Orderâˆ'Disorder Transitions and Evolution of Silica Structure in Self-Assembled Mesostructured Silica Films Studied through FTIR Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 4711-4717.	2.6	196
18	Biocompatibility characteristics of the metal organic framework ZIF-8 for therapeutical applications. Applied Materials Today, 2018, 11, 13-21.	4.3	193

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19	Degradation of ZIF-8 in phosphate buffered saline media. CrystEngComm, 2019, 21, 4538-4544.	2.6	186
20	Electrochemical Film Deposition of the Zirconium Metalâ€“Organic Framework UiO-66 and Application in a Miniaturized Sorbent Trap. Chemistry of Materials, 2015, 27, 1801-1807.	6.7	159
21	An Enzymeâ€Coated Metalâ€“Organic Framework Shell for Synthetically Adaptive Cell Survival. Angewandte Chemie - International Edition, 2017, 56, 8510-8515.	13.8	152
22	Copper Conversion into Cu(OH)₂ Nanotubes for Positioning Cu₃(BTC)₂ MOF Crystals: Controlling the Growth on Flat Plates, 3D Architectures, and as Patterns. Advanced Functional Materials, 2014, 24, 1969-1977.	14.9	150
23	Control of Structure Topology and Spatial Distribution of Biomacromolecules in Protein@ZIF-8 Biocomposites. Chemistry of Materials, 2018, 30, 1069-1077.	6.7	146
24	MOFâ€onâ€MOF: Oriented Growth of Multiple Layered Thin Films of Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 6886-6890.	13.8	145
25	Lead(<scp>ii</scp>) uptake by aluminium based magnetic framework composites (MFCs) in water. Journal of Materials Chemistry A, 2015, 3, 19822-19831.	10.3	141
26	MOFBOTS: Metalâ€“Organicâ€Frameworkâ€Based Biomedical Microrobots. Advanced Materials, 2019, 31, e1901592.	21.0	139
27	Doping Light Emitters into Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2012, 51, 8431-8433.	13.8	137
28	Highly Luminescent Metalâ€“Organic Frameworks Through Quantum Dot Doping. Small, 2012, 8, 80-88.	10.0	132
29	Protein surface functionalisation as a general strategy for facilitating biomimetic mineralisation of ZIF-8. Chemical Science, 2018, 9, 4217-4223.	7.4	131
30	Emerging applications of metalâ€“organic frameworks. CrystEngComm, 2016, 18, 6532-6542.	2.6	125
31	Bioactive MIL-88A Framework Hollow Spheres via Interfacial Reaction In-Droplet Microfluidics for Enzyme and Nanoparticle Encapsulation. Chemistry of Materials, 2015, 27, 7903-7909.	6.7	121
32	Towards applications of bioentities@MOFs in biomedicine. Coordination Chemistry Reviews, 2021, 429, 213651.	18.8	121
33	Solâ€“Gel Processing of Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 2626-2645.	6.7	116
34	Silica Orthorhombic Mesostructured Films with Low Refractive Index and High Thermal Stability. Journal of Physical Chemistry B, 2004, 108, 10942-10948.	2.6	114
35	Orderâˆ’Disorder in Self-Assembled Mesostructured Silica Films: A Concepts Review. Chemistry of Materials, 2009, 21, 2555-2564.	6.7	113
36	Direct X-ray and electron-beam lithography of halogenated zeolitic imidazolate frameworks. Nature Materials, 2021, 20, 93-99.	27.5	112

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37	Patterning Techniques for Metal Organic Frameworks. Advanced Materials, 2012, 24, 3153-3168.	21.0	111
38	Magnetic Metalâ€"Organic Frameworks for Efficient Carbon Dioxide Capture and Remote Trigger Release. Advanced Materials, 2016, 28, 1839-1844.	21.0	107
39	Fast Synthesis of MOF-5 Microcrystals Using Solâ^'Gel SiO₂ Nanoparticles. Chemistry of Materials, 2011, 23, 929-934.	6.7	106
40	Combining UV Lithography and an Imprinting Technique for Patterning Metalâ€Organic Frameworks. Advanced Materials, 2013, 25, 4701-4705.	21.0	98
41	Biomimetic Replication of Microscopic Metalâ€"Organic Framework Patterns Using Printed Protein Patterns. Advanced Materials, 2015, 27, 7293-7298.	21.0	97
42	Transparent, Highly Insulating Polyethyl- and Polyvinylsilsesquioxane Aerogels: Mechanical Improvements by Vulcanization for Ambient Pressure Drying. Chemistry of Materials, 2016, 28, 6860-6868.	6.7	96
43	Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Frameworkâ€8 (ZIFâ€8). Small, 2019, 15, e1902268.	10.0	95
44	Patterning Techniques for Mesostructured Films. Chemistry of Materials, 2008, 20, 607-614.	6.7	87
45	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	21.0	82
46	Facile stabilization of cyclodextrin metalâ€"organic frameworks under aqueous conditions via the incorporation of C₆₀ in their matrices. Chemical Communications, 2016, 52, 5973-5976.	4.1	81
47	Humidity sensors based on mesoporous silica thin films synthesised by block copolymers. Journal of the European Ceramic Society, 2004, 24, 1969-1972.	5.7	80
48	Phase dependent encapsulation and release profile of ZIF-based biocomposites. Chemical Science, 2020, 11, 3397-3404.	7.4	70
49	Highly Ordered â€œDefect-Freeâ€•Self-Assembled Hybrid Films with a Tetragonal Mesostructure. Journal of the American Chemical Society, 2005, 127, 3838-3846.	13.7	69
50	Dynamic Control of MOFâ€5 Crystal Positioning Using a Magnetic Field. Advanced Materials, 2011, 23, 3901-3906.	21.0	64
51	Vapour-phase deposition of oriented copper dicarboxylate metalâ€"organic framework thin films. Chemical Communications, 2019, 55, 10056-10059.	4.1	64
52	Fabrication of Advanced Functional Devices Combining Soft Chemistry with Xâ€ray Lithography in One Step. Advanced Materials, 2009, 21, 4932-4936.	21.0	63
53	Magnetic framework composites for polycyclic aromatic hydrocarbon sequestration. Journal of Materials Chemistry, 2012, 22, 11470.	6.7	62
54	Self-cleaning glass prepared from a commercial TiO2 nano-dispersion and its photocatalytic performance under common anthropogenic and atmospheric factors. Building and Environment, 2014, 71, 7-14.	6.9	62

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55	ZnO as an Efficient Nucleating Agent for Rapid, Room Temperature Synthesis and Patterning of Zn-Based Metalâ€"Organic Frameworks. Chemistry of Materials, 2015, 27, 690-699.	6.7	60
56	Magnetic Induction Swing Adsorption: An Energy Efficient Route to Porous Adsorbent Regeneration. Chemistry of Materials, 2016, 28, 6219-6226.	6.7	59
57	Hierarchical Porous Silica Films with Ultralow Refractive Index. Chemistry of Materials, 2009, 21, 2055-2061.	6.7	57
58	A Robust Metalâ€"Organic Framework for Dynamic Lightâ€Induced Swing Adsorption of Carbon Dioxide. Chemistry - A European Journal, 2016, 22, 11176-11179.	3.3	55
59	Continuousâ€Flow Synthesis of ZIFâ€8 Biocomposites with Tunable Particle Size. Angewandte Chemie - International Edition, 2020, 59, 8123-8127.	13.8	55
60	Time-Resolved Simultaneous Detection of Structural and Chemical Changes during Self-Assembly of Mesostructured Films. Journal of Physical Chemistry C, 2007, 111, 5345-5350.	3.1	54
61	Positioning of the HKUST-1 metalâ€"organic framework (Cu₃(BTC)₂) through conversion from insoluble Cu-based precursors. Inorganic Chemistry Frontiers, 2015, 2, 434-441.	6.0	54
62	Visible Light Triggered CO₂ Liberation from Silver Nanocrystals Incorporated Metalâ€"Organic Frameworks. Advanced Functional Materials, 2016, 26, 4815-4821.	14.9	53
63	PbS-Doped Mesostructured Silica Films with High Optical Nonlinearity. Chemistry of Materials, 2005, 17, 4965-4970.	6.7	52
64	Top-down patterning of Zeolitic Imidazolate Framework composite thin films by deep X-ray lithography. Chemical Communications, 2012, 48, 7483.	4.1	51
65	Positioning an individual metalâ€"organic framework particle using a magnetic field. Journal of Materials Chemistry C, 2013, 1, 42-45.	5.5	51
66	Amino acids as biomimetic crystallization agents for the synthesis of ZIF-8 particles. CrystEngComm, 2016, 18, 4264-4267.	2.6	51
67	Mesostructured self-assembled titania films for photovoltaic applications. Microporous and Mesoporous Materials, 2006, 88, 304-311.	4.4	48
68	MaLISA â€" a cooperative method to release adsorbed gases from metalâ€"organic frameworks. Journal of Materials Chemistry A, 2016, 4, 18757-18762.	10.3	46
69	Carbohydrates@MOFs. Materials Horizons, 2019, 6, 969-977.	12.2	46
70	Combining a Genetically Engineered Oxidase with Hydrogenâ€Bonded Organic Frameworks (HOFs) for Highly Efficient Biocomposites. Angewandte Chemie - International Edition, 2022, 61, .	13.8	46
71	Fabrication of Mesoporous Functionalized Arrays by Integrating Deep Xâ€Ray Lithography with Dipâ€Pen Writing. Advanced Materials, 2008, 20, 1864-1869.	21.0	45
72	Nanocomposite mesoporous ordered films for lab-on-chip intrinsic surface enhanced Raman scattering detection. Nanoscale, 2011, 3, 3760.	5.6	45

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73	Modulation of metal-azolate frameworks for the tunable release of encapsulated glycosaminoglycans. Chemical Science, 2020, 11, 10835-10843.	7.4	44
74	Relative humidity and alcohol sensors based on mesoporous silica thin films synthesised from block copolymers. Sensors and Actuators B: Chemical, 2003, 95, 107-110.	7.8	43
75	Magnetically responsive horseradish peroxidase@ZIF-8 for biocatalysis. Chemical Communications, 2020, 56, 5775-5778.	4.1	41
76	Crystallizing Sub 10 nm Covalent Organic Framework Thin Films via Interfacialâ€“Residual Concomitance. Journal of the American Chemical Society, 2021, 143, 20916-20926.	13.7	38
77	An Enzymeâ€Coated Metalâ€“Organic Framework Shell for Synthetically Adaptive Cell Survival. Angewandte Chemie, 2017, 129, 8630-8635.	2.0	37
78	MOFâ€onâ€MOF: Oriented Growth of Multiple Layered Thin Films of Metalâ€“Organic Frameworks. Angewandte Chemie, 2019, 131, 6960-6964.	2.0	37
79	ZIF-C for targeted RNA interference and CRISPR/Cas9 based gene editing in prostate cancer. Chemical Communications, 2020, 56, 15406-15409.	4.1	37
80	Direct nano-in-micropatterning of TiO2 thin layers and TiO2/Pt nanoelectrode arrays by deep X-ray lithography. Journal of Materials Chemistry, 2011, 21, 3597.	6.7	36
81	Thermal-induced phase transitions in self-assembled mesostructured films studied by small-angle X-ray scattering. Journal of Synchrotron Radiation, 2005, 12, 734-738.	2.4	35
82	A MOF-based carrier for<i>in situ</i>dopamine delivery. RSC Advances, 2018, 8, 25664-25672.	3.6	35
83	Stabilization of supramolecular membrane proteinâ€“lipid bilayer assemblies through immobilization in a crystalline exoskeleton. Nature Communications, 2021, 12, 2202.	12.8	35
84	Writing Self-Assembled Mesostructured Films with In situ Formation of Gold Nanoparticles. Chemistry of Materials, 2010, 22, 2132-2137.	6.7	34
85	Magnetic Induction Framework Synthesis: A General Route to the Controlled Growth of Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 6186-6190.	6.7	34
86	Can 3D electron diffraction provide accurate atomic structures of metalâ€“organic frameworks?. Faraday Discussions, 2021, 225, 118-132.	3.2	34
87	Hard X-rays meet soft matter: when bottom-up and top-down get along well. Soft Matter, 2012, 8, 3722.	2.7	33
88	Hierarchical Metalâ€Organic Framework Films with Controllable Meso/Macroporosity. Advanced Science, 2020, 7, 2002368.	11.2	32
89	Controlling the alignment of 1D nanochannel arrays in oriented metalâ€“organic framework films for hostâ€“guest materials design. Chemical Science, 2020, 11, 8005-8012.	7.4	31
90	Highly ordered self-assembled mesostructured membranes: Porous structure and pore surface coverage. Microporous and Mesoporous Materials, 2007, 103, 113-122.	4.4	30

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91	Hafnia sol-gel films synthesized from HfCl4: Changes of structure and properties with the firing temperature. Journal of Sol-Gel Science and Technology, 2007, 42, 89-93.	2.4	30
92	Correction: An updated roadmap for the integration of metalâ€“organic frameworks with electronic devices and chemical sensors. Chemical Society Reviews, 2017, 46, 3853-3853.	38.1	30
93	Conversion of Copper Carbonate into a Metalâ€“Organic Framework. Chemistry of Materials, 2018, 30, 5630-5638.	6.7	30
94	Highâ€Throughput Electron Diffraction Reveals a Hidden Novel Metalâ€“Organic Framework for Electrocatalysis. Angewandte Chemie - International Edition, 2021, 60, 11391-11397.	13.8	29
95	Fe₃O₄@HKUST-1 and Pd/Fe₃O₄@HKUST-1 as magnetically recyclable catalysts prepared via conversion from a Cu-based ceramic. CrystEngComm, 2017, 19, 4201-4210.	2.6	28
96	Influence of the Synthesis and Storage Conditions on the Activity of <i>Candida antarctica</i> Lipase B ZIF-8 Biocomposites. ACS Applied Materials & Interfaces, 2021, 13, 51867-51875.	8.0	28
97	Exfoliated Graphene into Highly Ordered Mesoporous Titania Films: Highly Performing Nanocomposites from Integrated Processing. ACS Applied Materials & Interfaces, 2014, 6, 795-802.	8.0	27
98	Kinetics of polycondensation reactions during self-assembly of mesostructured films studied by in situ infrared spectroscopy. Chemical Communications, 2005, , 2384.	4.1	26
99	Influence of Temperature on the Photocatalytic Activity of Solâˆ'Gel TiO2 Films. ACS Applied Materials & Interfaces, 2010, 2, 1294-1298.	8.0	26
100	Densification of solâ€“gel silica thin films induced by hard X-rays generated by synchrotron radiation. Journal of Synchrotron Radiation, 2011, 18, 280-286.	2.4	26
101	Engineered Porous Nanocomposites That Deliver Remarkably Low Carbon Capture Energy Costs. Cell Reports Physical Science, 2020, 1, 100070.	5.6	26
102	Highly Ordered Self-Assembled Mesostructured Hafnia Thin Films:Â An Example of Rewritable Mesostructure. Chemistry of Materials, 2006, 18, 4553-4560.	6.7	25
103	Electrochemical sensing and catalysis using Cu₃(BTC)₂ coating electrodes from Cu(OH)₂ films. CrystEngComm, 2017, 19, 4194-4200.	2.6	25
104	Sensoristic Applications of Self-assembled Mesostructured Silica Films. Sensor Letters, 2003, 1, 64-70.	0.4	25
105	One-pot self-assembly of mesostructured silica films and membranes functionalised with fullerene derivativesElectronic supplementary information (ESI) available: selected analytical data of 2 and 3. See http://www.rsc.org/suppdata/jm/b4/b401916d/. Journal of Materials Chemistry, 2004, 14, 1838.	6.7	24
106	Electrical responses of silica mesostructured films to changes in environmental humidity and processing conditions. Journal of Non-Crystalline Solids, 2005, 351, 1980-1986.	3.1	24
107	Ordered Mesostructured Silica Films: Effect of Pore Surface on its Sensing Properties. Journal of Sol-Gel Science and Technology, 2004, 32, 107-110.	2.4	23
108	Shaping Mesoporous Films Using Dewetting on X-ray Pre-patterned Hydrophilic/Hydrophobic Layers and Pinning Effects at the Pattern Edge. Langmuir, 2011, 27, 3898-3905.	3.5	23

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109	Selfâ€Assembly of Oriented Antibodyâ€Decorated Metalâ€"Organic Framework Nanocrystals for Activeâ€Targeting Applications. Advanced Materials, 2022, 34, e2106607.	21.0	23
110	Chemical Tailoring of Hybrid Solâ˜'Gel Thick Coatings As Hosting Matrix for Functional Patterned Microstructures. ACS Applied Materials & Interfaces, 2011, 3, 245-251.	8.0	22
111	Combining Top-Down and Bottom-Up Routes for Fabrication of Mesoporous Titania Films Containing Ceria Nanoparticles for Free Radical Scavenging. ACS Applied Materials & Interfaces, 2013, 5, 3168-3175.	8.0	22
112	Enhanced Photocatalytic Activity in Low-Temperature Processed Titania Mesoporous Films. Journal of Physical Chemistry C, 2014, 118, 12000-12009.	3.1	22
113	Self-Assembly of Shape Controlled Hierarchical Porous Thin Films: Mesopores and Nanoboxes. Chemistry of Materials, 2009, 21, 4846-4850.	6.7	21
114	Continuousâ€Flow Synthesis of ZIFâ€8 Biocomposites with Tunable Particle Size. Angewandte Chemie, 2020, 132, 8200-8204.	2.0	21
115	Titanate nanofunnel brushes: toward functional interfacial applications. Chemical Communications, 2012, 48, 6130.	4.1	20
116	Deep Xâ€ray Lithography for Direct Patterning of PECVD Films. Plasma Processes and Polymers, 2010, 7, 459-465.	3.0	19
117	Complete Characterization of Î±-Hopeite Microparticles: An Ideal Nucleation Seed for Metal Organic Frameworks. Crystal Growth and Design, 2011, 11, 5268-5274.	3.0	19
118	Study of 3D composition in a nanoscale sample using data-constrained modelling and multi-energy x-ray CT. Modelling and Simulation in Materials Science and Engineering, 2012, 20, 015013.	2.0	19
119	Rapid Detection of Hendra Virus Using Magnetic Particles and Quantum Dots. Advanced Healthcare Materials, 2012, 1, 631-634.	7.6	18
120	High-Throughput Screening of Metalâ€"Organic Frameworks for Macroscale Heteroepitaxial Alignment. ACS Applied Materials & Interfaces, 2018, 10, 40938-40950.	8.0	18
121	X-rays to study, induce, and pattern structures in solâ€"gel materials. Journal of Sol-Gel Science and Technology, 2011, 57, 236-244.	2.4	15
122	A high volume and low damage route to hydroxyl functionalization of carbon nanotubes using hard X-ray lithography. Carbon, 2013, 51, 430-434.	10.3	15
123	Architecturing Nanospace via Thermal Rearrangement for Highly Efficient Gas Separations. Journal of Physical Chemistry C, 2013, 117, 24654-24661.	3.1	14
124	Influence of domestic and environmental weathering in the self-cleaning performance and durability of TiO2 photocatalytic coatings. Building and Environment, 2018, 132, 96-103.	6.9	14
125	On the completeness of three-dimensional electron diffraction data for structural analysis of metalâ€"organic frameworks. Faraday Discussions, 2021, 231, 66-80.	3.2	14
126	Formation of Monoclinic Hafnium Titanate Thin Films Via the Solâ€"Gel Method. Journal of the American Ceramic Society, 2008, 91, 2112-2116.	3.8	13

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127	Microfabrication of mesoporous silica encapsulated enzymes using deep X-ray lithography. Journal of Materials Chemistry, 2012, 22, 16191.	6.7	13
128	Photocurable silica hybrid organicâ€“inorganic films for photonic applications. Journal of Sol-Gel Science and Technology, 2007, 44, 59-64.	2.4	12
129	Patterning block copolymer thin films by deep X-ray lithography. Soft Matter, 2010, 6, 3172.	2.7	12
130	Simultaneous Microfabrication and Tuning of the Permselective Properties in Microporous Polymers Using Xâ€ray Lithography. Small, 2013, 9, 2277-2282.	10.0	12
131	Controlling the Growth of Metal-Organic Frameworks Using Different Gravitational Forces. European Journal of Inorganic Chemistry, 2016, 2016, 4499-4504.	2.0	12
132	Below room temperature: How the photocatalytic activity of dense and mesoporous TiO2 coatings is affected. Applied Surface Science, 2018, 435, 769-775.	6.1	12
133	Hybrid materials with an increased resistance to hard X-rays using fullerenes as radical sponges. Journal of Synchrotron Radiation, 2012, 19, 586-590.	2.4	11
134	Hard X-rays and soft-matter: processing of solâ€“gel films from a top down route. Journal of Sol-Gel Science and Technology, 2014, 70, 236-244.	2.4	11
135	Tuning the phase transition of ZnO thin films through lithography: an integrated bottom-up andÂtop-down processing. Journal of Synchrotron Radiation, 2015, 22, 165-171.	2.4	11
136	Method for Optimizing Coating Properties Based on an Evolutionary Algorithm Approach. Analytical Chemistry, 2011, 83, 6373-6380.	6.5	9
137	Temperature Matters: An Infrared Spectroscopic Investigation on the Photocatalytic Efficiency of Titania Coatings. Science of Advanced Materials, 2014, 6, 1330-1337.	0.7	8
138	Semiâ€Automatic Deposition of Oriented Cu(OH)₂ Nanobelts for the Heteroepitaxial Growth of Metalâ€“Organic Framework Films. Advanced Materials Interfaces, 2021, 8, 2101039.	3.7	8
139	MOF-based devices for detection and removal of environmental pollutants. , 2019, , 383-426.		7
140	Hostâ€“Guest Metalâ€“Organic Frameworks for Photonics. Structure and Bonding, 2013, , 167-186.	1.0	6
141	Evaluation of Coupling Protocols to Bind Beta-Glucosidase on Magnetic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2014, 14, 6565-6573.	0.9	6
142	Highâ€Throughput Electron Diffraction Reveals a Hidden Novel Metalâ€“Organic Framework for Electrocatalysis. Angewandte Chemie, 2021, 133, 11492-11498.	2.0	6
143	Honeycomb-structured copper indium sulfide thin films obtained<i>via</i>a nanosphere colloidal lithography method. Materials Advances, 2022, 3, 2884-2895.	5.4	6
144	Fabrication of functional nanostructured coatings by a combined solâ€“gel and plasma-enhanced chemical vapour deposition method. Journal of Sol-Gel Science and Technology, 2011, 60, 340-346.	2.4	5

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145	Micropattern Formation by Molecular Migration via UVâ€induced Dehydration of Block Copolymers. Advanced Functional Materials, 2014, 24, 2801-2809.	14.9	5
146	Paperâ€Like Writable Nanoparticle Network Sheets for Maskâ€Less MOF Patterning. Advanced Functional Materials, 2022, 32, .	14.9	5
147	Gene Therapy: Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Frameworkâ€8 (ZIFâ€8) (Small 36/2019). Small, 2019, 15, 1970193.	10.0	4
148	Fatty acids as biomimetic replication agents for luminescent metalâ€"organic framework patterns. Chemical Communications, 2020, 56, 12733-12736.	4.1	4
149	Microstructural Evolution and Order-Disorder Transitions in Mesoporous Silica Films Studied by FTIR Spectroscopy. Materials Research Society Symposia Proceedings, 2002, 726, 1.	0.1	3
150	Mesoporous Thin Films: Properties and Applications. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 105-123.	0.2	3
151	Functionalization of microarray devices: Process optimization using a multiobjective PSO and multiresponse MARS modeling. , 2010, , .		3
152	Influence of the relative humidity on aminosilane molecular grafting properties. Journal of Sol-Gel Science and Technology, 2011, 60, 246-253.	2.4	3
153	Biomimetics: Metal-Organic Framework Coatings as Cytoprotective Exoskeletons for Living Cells (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	21.0	3
154	Kombination einer genetisch engineerten Oxidase mit wasserstoffbrÃ¼ckengebundenen organischen GerÃ¼sten (HOFs) fÃ¼r hocheffiziente Biokomposite. Angewandte Chemie, 2022, 134, .	2.0	3
155	Amino Functionalized SiO2nanoparticles for seeding MOF-5. IOP Conference Series: Materials Science and Engineering, 2011, 18, 052006.	0.6	1
156	Metalâ€"Organic Frameworks: Biomimetic Replication of Microscopic Metalâ€"Organic Framework Patterns Using Printed Protein Patterns (Adv. Mater. 45/2015). Advanced Materials, 2015, 27, 7483-7483.	21.0	1
157	Innentitelbild: MOFâ€onâ€MOF: Oriented Growth of Multiple Layered Thin Films of Metalâ€"Organic Frameworks (Angew. Chem. 21/2019). Angewandte Chemie, 2019, 131, 6856-6856.	2.0	1
158	MOF bio-composites for biocatalysis. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1030-C1030.	0.1	1
159	Multifunctional Integrated Platforms: Fabrication of Advanced Functional Devices Combining Soft Chemistry with Xâ€ray Lithography in One Step (Adv. Mater. 48/2009). Advanced Materials, 2009, 21, .	21.0	0
160	Functional three-dimensional nonlinear nanostructures in a gold ion nanocomposite. , 2011, , .		0
161	Lithography of porous materials for device fabrication. , 2011, , .		0
162	MOFs and Biomacromolecules for Biomedical Applications. , 2021, , 379-432.		0

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163	3D Spatially Controlled Chemical Functionalization on Alumina Membranes. Science of Advanced Materials, 2014, 6, 1520-1524.	0.7	0
164	(Invited) Device Fabrication â€“ Positioning and Alignment of MOF Crystals. ECS Meeting Abstracts, 2018, , .	0.0	0
165	Oriented Growth of Covalent Organic Framework (COF) Crystals on Metal-Hydroxides Thin Film. , 2019, , .		0
166	Automatic Deposition of Oriented Copper Hydroxide Nanobelt Films for the Heteroepitaxial Growth of Metal-Organic Frameworks. ECS Meeting Abstracts, 2020, MA2020-02, 1999-1999.	0.0	0
167	Enzyme-powered micromotors based on hierarchical porous MOFs. Chinese Journal of Catalysis, 2022, 43, 584-585.	14.0	0
168	Selfâ€Assembly of Oriented Antibodyâ€Decorated Metalâ€“Organic Framework Nanocrystals for Activeâ€Targeting Applications (Adv. Mater. 21/2022). Advanced Materials, 2022, 34, .	21.0	0