

# Manuel Tsotsalas

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,142  
citations

236925

25  
h-index

233421

45  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoscopic architectures of porous coordination polymers fabricated by pseudomorphic replication. <i>Nature Materials</i> , 2012, 11, 717-723.	27.5	352
2	Preparation of Freestanding Conjugated Microporous Polymer Nanomembranes for Gas Separation. <i>Chemistry of Materials</i> , 2014, 26, 7189-7193.	6.7	117
3	Fabrication of Highly Uniform Gel Coatings by the Conversion of Surface-Anchored Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2014, 136, 8-11.	13.7	116
4	Metal-Organic Framework-Templated Biomaterials: Recent Progress in Synthesis, Functionalization, and Applications. <i>Accounts of Chemical Research</i> , 2019, 52, 1598-1610.	15.6	112
5	Rising Up: Hierarchical Metal-Organic Frameworks in Experiments and Simulations. <i>Advanced Materials</i> , 2019, 31, e1901744.	21.0	103
6	Porous Coordination Polymer Hybrid Device with Quartz Oscillator: Effect of Crystal Size on Sorption Kinetics. <i>Journal of the American Chemical Society</i> , 2011, 133, 11932-11935.	13.7	98
7	Current Trends in Metal-Organic and Covalent Organic Framework Membrane Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15153-15164.	13.8	96
8	Encapsulating <sup>111</sup> In in Nanocontainers for Scintigraphic Imaging: Synthesis, Characterization, and In Vivo Biodistribution. <i>ACS Nano</i> , 2010, 4, 342-348.	14.6	82
9	Dynamic Microcrystal Assembly by Nitroxide Exchange Reactions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6881-6884.	13.8	79
10	Crystal morphology-directed framework orientation in porous coordination polymer films and freestanding membranes via Langmuir-Blodgett. <i>Journal of Materials Chemistry</i> , 2012, 22, 10159.	6.7	74
11	High Antimicrobial Activity of Metal-Organic Framework-Templated Porphyrin Polymer Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1528-1533.	8.0	74
12	Functionalized Nanocontainers as Dual Magnetic and Optical Probes for Molecular Imaging Applications. <i>Chemistry of Materials</i> , 2008, 20, 5888-5893.	6.7	73
13	MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	59
14	Bringing Porous Organic and Carbon-Based Materials toward Thin-Film Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1801545.	14.9	53
15	Recycling and self-healing of dynamic covalent polymer networks with a precisely tuneable crosslinking degree. <i>Polymer Chemistry</i> , 2019, 10, 672-678.	3.9	40
16	Hierarchically Functionalized Magnetic Core/Multishell Particles and Their Postsynthetic Conversion to Polymer Capsules. <i>ACS Nano</i> , 2015, 9, 4219-4226.	14.6	39
17	Internalization Pathways of Anisotropic Disc-Shaped Zeolite L Nanocrystals with Different Surface Properties in HeLa Cancer Cells. <i>Small</i> , 2013, 9, 1809-1820.	10.0	38
18	Pt Immobilization within a Tailored Porous-Organic Polymer-Graphene Composite: Opportunities in the Hydrogen Evolving Reaction. <i>ACS Catalysis</i> , 2017, 7, 7847-7854.	11.2	35

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19	Polymerization in MOF-Confined Nanospaces: Tailored Architectures, Functions, and Applications. <i>Langmuir</i> , 2020, 36, 10657-10673.	3.5	35
20	Assembly of Molecular Building Blocks into Integrated Complex Functional Molecular Systems: Structuring Matter Made to Order. <i>Advanced Functional Materials</i> , 2020, 30, 1907625.	14.9	34
21	Freestanding MOF Microsheets with Defined Size and Geometry Using Superhydrophobic/Superhydrophilic Arrays. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500392.	3.7	32
22	Performance Fabrics Obtained by <i>In Situ</i> Growth of Metal-Organic Frameworks in Electrospun Fibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12491-12500.	8.0	31
23	Excitonically Coupled States in Crystalline Coordination Networks. <i>Chemistry - A European Journal</i> , 2017, 23, 14316-14322.	3.3	30
24	Tuning the Cell Adhesion on Biofunctionalized Nanoporous Organic Frameworks. <i>Advanced Functional Materials</i> , 2016, 26, 8455-8462.	14.9	29
25	Impact of Molecular Clustering inside Nanopores on Desorption Processes. <i>Journal of the American Chemical Society</i> , 2013, 135, 4608-4611.	13.7	28
26	Self-reporting and refoldable profluorescent single-chain nanoparticles. <i>Chemical Science</i> , 2018, 9, 4696-4702.	7.4	27
27	Localized Conversion of Metal-Organic Frameworks into Polymer Gels via Light-Induced Click Chemistry. <i>Chemistry of Materials</i> , 2017, 29, 5982-5989.	6.7	26
28	Surface functionalization of conjugated microporous polymer thin films and nanomembranes using orthogonal chemistries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6815-6818.	10.3	24
29	Electrochemical investigation of covalently post-synthetic modified SURGEL coatings. <i>Chemical Communications</i> , 2014, 50, 11129-11131.	4.1	22
30	Radical exchange reaction of multi-spin isoindoline nitroxides followed by EPR spectroscopy. <i>RSC Advances</i> , 2016, 6, 55715-55719.	3.6	19
31	Dynamic covalent polymer networks <i>via</i> combined nitroxide exchange reaction and nitroxide mediated polymerization. <i>Polymer Chemistry</i> , 2020, 11, 2502-2510.	3.9	17
32	Electrolytic Conversion of Sacrificial Metal-Organic Framework Thin Films into an Electrocatalytically Active Monolithic Oxide Coating for the Oxygen Evolution Reaction. <i>Energy Technology</i> , 2019, 7, 1900967.	3.8	13
33	Dynamic porous organic polymers with tuneable crosslinking degree and porosity. <i>RSC Advances</i> , 2021, 11, 27714-27719.	3.6	12
34	Fast and efficient synthesis of microporous polymer nanomembranes via light-induced click reaction. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 558-563.	2.2	11
35	Design of Metal-Organic Framework Templated Materials Using High-Throughput Computational Screening. <i>Molecules</i> , 2020, 25, 4875.	3.8	11
36	Synthesis, Transfer, and Gas Separation Characteristics of MOF-Templated Polymer Membranes. <i>Membranes</i> , 2019, 9, 124.	3.0	10

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37	Nanomechanical investigation of thin-film electroceramic/metal-organic framework multilayers. Applied Physics Letters, 2015, 107, .	3.3	9
38	MOFSocialNet: Exploiting Metal-Organic Framework Relationships via Social Network Analysis. Nanomaterials, 2022, 12, 704.	4.1	9
39	Covalent Adaptable Networks Based on Dynamic Alkoxyamine Bonds. Macromolecular Materials and Engineering, 2022, 307, .	3.6	8
40	Functional microporous polymers through Cu-mediated, free-radical polymerization of buckminster [60] fullerene. Carbon, 2017, 118, 215-224.	10.3	7
41	Covalently Linked Organic Networks. Frontiers in Materials, 2015, 2, .	2.4	6
42	Aktuelle Trends zu Metall-organischen und kovalenten organischen Netzwerken als Membranmaterialien. Angewandte Chemie, 2021, 133, 15281-15293.	2.0	6
43	Flash synthesis for conformal monolithic coatings of the Zr-based metal-organic framework (UiO-66-NH <sub>2</sub> ) on non-modified surfaces: Applications in thin-film electrode systems. Surfaces and Interfaces, 2020, 20, 100587.	3.0	5
44	Spectroscopic Investigation of Bianthryl-Based Metal-Organic Framework Thin Films and Their Photoinduced Topotactic Transformation. Advanced Materials Interfaces, 2022, 9, .	3.7	4
45	Dynamic Surface Modification of Metal-Organic Framework Nanoparticles via Alkoxyamine Functional Groups. Langmuir, 2022, 38, 6531-6538.	3.5	4
46	Solid and Hollow Poly( <i>p</i> -xylylene) Particles Synthesis via Metal-Organic Framework-Templated Chemical Vapor Polymerization. Chemistry of Materials, 0, , .	6.7	4
47	Terahertz phase contrast imaging of sorption kinetics in porous coordination polymer nanocrystals using differential optical resonator. Optics Express, 2014, 22, 11061.	3.4	3
48	Layer-by-layer Synthesis and Transfer of Freestanding Conjugated Microporous Polymer Nanomembranes. Journal of Visualized Experiments, 2015, , e53324.	0.3	3
49	Rigid Multidimensional Alkoxyamines: A Versatile Building Block Library. European Journal of Organic Chemistry, 2021, 2021, 239-245.	2.4	2
50	MOF Synthesis Prediction Enabled by Automatic Data Mining and Machine Learning. Angewandte Chemie, 0, , .	2.0	1
51	Terahertz near-field phase contrast imaging. , 2014, , .		0