Takashi Uemura

List of Publications by Year
in descending order

130 papers	8,183 citations	61857 43 h-index	48187 88 g-index
142 all docs	142 docs citations	142 times ranked	8075 citing authors

#	Article	IF	Citations
1	Mixed Metalâ€"Organic Framework Stationary Phases for Liquid Chromatography. ACS Nano, 2022, 16, 6771-6780.	7.3	12
2	Nanoconfinement of an Otherwise Useless Fluorophore in Metalâ€"Organic Frameworks to Elicit and Tune Emission. Journal of Physical Chemistry C, 2022, 126, 6628-6636.	1.5	5
3	Reciprocal regulation between MOFs and polymers. Coordination Chemistry Reviews, 2022, 466, 214601.	9.5	25
4	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
5	Toughening and stabilizing MOF crystals <i>via</i> polymeric guest inclusion. Dalton Transactions, 2022, 51, 13204-13209.	1.6	6
6	Metalâ€Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. Angewandte Chemie - International Edition, 2021, 60, 11830-11834.	7.2	18
7	Metalâ€Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. Angewandte Chemie, 2021, 133, 11936-11940.	1.6	0
8	Chiral Induction in Buckminsterfullerene Using a Metalâ€"Organic Framework. Angewandte Chemie, 2021, 133, 18091-18095.	1.6	7
9	Chiral Induction in Buckminsterfullerene Using a Metalâ€"Organic Framework. Angewandte Chemie - International Edition, 2021, 60, 17947-17951.	7.2	18
10	Development of Functional Materials via Polymer Encapsulation into Metalâ€"Organic Frameworks. Bulletin of the Chemical Society of Japan, 2021, 94, 2139-2148.	2.0	26
11	Metalâ€"Organic Frameworks as Versatile Media for Polymer Adsorption and Separation. Accounts of Chemical Research, 2021, 54, 3593-3603.	7.6	29
12	Revisiting molecular adsorption: unconventional uptake of polymer chains from solution into sub-nanoporous media. Chemical Science, 2021, 12, 12576-12586.	3.7	23
13	Hybridization of Synthetic Humins with a Metalâ€"Organic Framework for Precious Metal Recovery and Reuse. ACS Applied Materials & Interfaces, 2021, 13, 60027-60034.	4.0	19
14	Nanoarchitectonics: Supramolecular Chiral Nanoarchitectonics (Adv. Mater. 41/2020). Advanced Materials, 2020, 32, 2070310.	11.1	1
15	Unimolecularly thick monosheets of vinyl polymers fabricated in metalâ€"organic frameworks. Nature Communications, 2020, 11, 3573.	5.8	27
16	Metal-Organic Frameworks for Macromolecular Recognition and Separation. Matter, 2020, 3, 652-663.	5.0	28
17	Polymers in Metalâ€"Organic Frameworks: From Nanostructured Chain Assemblies to New Functional Materials. Chemistry Letters, 2020, 49, 624-632.	0.7	15
18	Carbonization of single polyacrylonitrile chains in coordination nanospaces. Chemical Science, 2020, 11, 10844-10849.	3.7	22

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19	Terminus-dependent insertion of molten poly(ethylene glycol) into a flexible metal-organic framework. European Polymer Journal, 2020, 134, 109855.	2.6	3
20	Supramolecular Chiral Nanoarchitectonics. Advanced Materials, 2020, 32, e1905657.	11.1	150
21	Scalable and Precise Synthesis of Armchair-Edge Graphene Nanoribbon in Metalâ€"Organic Framework. Journal of the American Chemical Society, 2020, 142, 5509-5514.	6.6	37
22	Recognition of Polymer Terminus by Metalâ€"Organic Frameworks Enabling Chromatographic Separation of Polymers. Journal of the American Chemical Society, 2020, 142, 3701-3705.	6.6	50
23	(Invited) Nanostructured Conjugated Materials in Metal-Organic Frameworks. ECS Transactions, 2020, 98, 23-28.	0.3	0
24	(Invited) Nanostructured Conjugated Materials in Metal-Organic Frameworks. ECS Meeting Abstracts, 2020, MA2020-02, 2010-2010.	0.0	0
25	Controlling the Packing of Metalâ€"Organic Layers by Inclusion of Polymer Guests. Journal of the American Chemical Society, 2019, 141, 14549-14553.	6.6	17
26	Confinement of poly(allylamine) in Preyssler-type polyoxometalate and potassium ion framework for enhanced proton conductivity. Communications Chemistry, 2019, 2, .	2.0	31
27	Enhanced mechanical properties of a metalâ€"organic framework by polymer insertion. Chemical Communications, 2019, 55, 691-694.	2.2	38
28	Impact of the position of the imine linker on the optoelectronic performance of Ï€-conjugated organic frameworks. Molecular Systems Design and Engineering, 2019, 4, 325-331.	1.7	18
29	Fluorinated porous molecular crystals: vapor-triggered onâ€"off switching of luminescence and porosity. Chemical Communications, 2019, 55, 6487-6490.	2.2	19
30	Transcription of Chirality from Metalâ€"Organic Framework to Polythiophene. Journal of the American Chemical Society, 2019, 141, 19565-19569.	6.6	43
31	Kinetic Control in Synthesis of Polymers Using Nanoporous Metal-Organic Frameworks. , 2019, , 185-204.		1
32	A phase transformable ultrastable titanium-carboxylate framework for photoconduction. Nature Communications, 2018, 9, 1660.	5.8	128
33	A fluorescent microporous crystalline dendrimer discriminates vapour molecules. Chemical Communications, 2018, 54, 2534-2537.	2.2	19
34	Sequence-regulated copolymerization based on periodic covalent positioning of monomers along one-dimensional nanochannels. Nature Communications, 2018, 9, 329.	5.8	60
35	Selective Formation of End-on Orientation between Polythiophene and Fullerene Mediated by Coordination Nanospaces. Journal of Physical Chemistry C, 2018, 122, 24182-24189.	1.5	11
36	Oxidative polymerization of terthiophene and a substituted thiophene monomer in metal-organic framework thin films. European Polymer Journal, 2018, 109, 162-168.	2.6	21

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37	Selective sorting of polymers with different terminal groups using metal-organic frameworks. Nature Communications, 2018, 9, 3635.	5.8	44
38	Controlled polymerizations using metalâ€“organic frameworks. Chemical Communications, 2018, 54, 11843-11856.	2.2	81
39	Polymer in MOF Nanospace: from Controlled Chain Assembly to New Functional Materials. Israel Journal of Chemistry, 2018, 58, 995-1009.	1.0	18
40	Preparation of Porous Polysaccharides Templated by Coordination Polymer with Three-Dimensional Nanochannels. ACS Applied Materials & Interfaces, 2017, 9, 11373-11379.	4.0	25
41	Opening of an Accessible Microporosity in an Otherwise Nonporous Metalâ€“Organic Framework by Polymeric Guests. Journal of the American Chemical Society, 2017, 139, 7886-7892.	6.6	65
42	Hybridization of MOFs and polymers. Chemical Society Reviews, 2017, 46, 3108-3133.	18.7	708
43	Preparation of polythiophene microrods with ordered chain alignment using nanoporous coordination template. Polymer Chemistry, 2017, 8, 5077-5081.	1.9	32
44	Controlled Organization of Anthracene in Porous Coordination Polymers. Chemistry Letters, 2017, 46, 1705-1707.	0.7	11
45	Thermal ring-opening polymerization of an unsymmetrical silicon-bridged [1]ferrocenophane in coordination nanochannels. Chemical Communications, 2017, 53, 6945-6948.	2.2	12
46	Radical Polymerization of Vinyl Monomers in Porous Organic Cages. Angewandte Chemie, 2016, 128, 6553-6557.	1.6	11
47	Radical Polymerization of Vinyl Monomers in Porous Organic Cages. Angewandte Chemie - International Edition, 2016, 55, 6443-6447.	7.2	30
48	Inorganic nanoparticles in porous coordination polymers. Chemical Society Reviews, 2016, 45, 3828-3845.	18.7	220
49	Nanostructuration of PEDOT in Porous Coordination Polymers for Tunable Porosity and Conductivity. Journal of the American Chemical Society, 2016, 138, 10088-10091.	6.6	193
50	Unraveling Interâ€•and Intrachain Electronics in Polythiophene Assemblies Mediated by Coordination Nanospaces. Angewandte Chemie - International Edition, 2016, 55, 708-713.	7.2	52
51	The controlled synthesis of polyglucose in one-dimensional coordination nanochannels. Chemical Communications, 2016, 52, 5156-5159.	2.2	32
52	Precision Polymer Synthesis in Porous Metal-Organic Frameworks. Kobunshi Ronbunshu, 2015, 72, 191-198.	0.2	0
53	Peptideâ€“Metal Organic Framework Swimmers that Direct the Motion toward Chemical Targets. Nano Letters, 2015, 15, 4019-4023.	4.5	73
54	Radical Copolymerization Mediated by Unsaturated Metal Sites in Coordination Nanochannels. ACS Macro Letters, 2015, 4, 788-791.	2.3	24

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55	Mixing of immiscible polymers using nanoporous coordination templates. Nature Communications, 2015, 6, 7473.	5.8	58
56	Radical polymerization of 2,3-dimethyl-1,3-butadiene in coordination nanochannels. Chemical Communications, 2015, 51, 9892-9895.	2.2	24
57	Confinement of Single Polysilane Chains in Coordination Nanospaces. Journal of the American Chemical Society, 2015, 137, 5231-5238.	6.6	70
58	Molecular-Level Studies on Dynamic Behavior of Oligomeric Chain Molecules in Porous Coordination Polymers. Journal of Physical Chemistry C, 2015, 119, 21504-21514.	1.5	33
59	Peptide Assemblyâ€Driven Metalâ€"Organic Framework (MOF) Motors for Micro Electric Generators. Advanced Materials, 2015, 27, 288-291.	11.1	60
60	Synthesis of chiral porous coordination polymer that shows structural transformation induced by guest molecules. Inorganica Chimica Acta, 2015, 424, 221-225.	1.2	3
61	Supramolecular Approaches towards Ordered Polymer Materials. Chemistry - A European Journal, 2014, 20, 1482-1489.	1.7	11
62	Controlled Cyclopolymerization of Difunctional Vinyl Monomers in Coordination Nanochannels. Macromolecules, 2014, 47, 7321-7326.	2.2	26
63	Solâ€"gel synthesis of nanosized titanium oxide in a porous coordination polymer. Microporous and Mesoporous Materials, 2014, 195, 31-35.	2.2	8
64	Fabrication of Ceria Nanoparticles Incorporated in Porous Coordination Polymer. Chemistry Letters, 2014, 43, 1749-1751.	0.7	7
65	Controlled Synthesis of Anisotropic Polymer Particles Templated by Porous Coordination Polymers. Chemistry of Materials, 2013, 25, 3772-3776.	3.2	56
66	Highly ordered alignment of a vinyl polymer by hostâ€"guest cross-polymerization. Nature Chemistry, 2013, 5, 335-341.	6.6	172
67	Controlled Encapsulation of Photoresponsive Macromolecules in Porous Coordination Polymer. Chemistry Letters, 2013, 42, 222-223.	0.7	14
68	Crystalline Coordination Nanospaces for Development of New Polymer Chemistry. Nihon Kessho Gakkaishi, 2013, 55, 75-80.	0.0	0
69	Coordination Nanochannels for Polymer Materials. Springer Briefs in Molecular Science, 2013, , 41-48.	0.1	1
70	Autonomous motors of a metalâ€"organic framework powered by reorganization ofÂself-assembled peptides at interfaces. Nature Materials, 2012, 11, 1081-1085.	13.3	200
71	Behavior of Binary Guests in a Porous Coordination Polymer. Chemistry of Materials, 2012, 24, 4744-4749.	3.2	32
72	Inclusion and dielectric properties of a vinylidene fluoride oligomer in coordination nanochannels. Dalton Transactions, 2012, 41, 4195.	1.6	16

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73	Guest-to-Host Transmission of Structural Changes for Stimuli-Responsive Adsorption Property. Journal of the American Chemical Society, 2012, 134, 4501-4504.	6.6	326
74	Highly Photoconducting Ï€-Stacked Polymer Accommodated in Coordination Nanochannels. Journal of the American Chemical Society, 2012, 134, 8360-8363.	6.6	97
75	Controlled Polymer Synthesis in Coordination Nanochannels. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2012, 70, 324-330.	0.0	1
76	Inclusion and dynamics of a polymerâ€"Li salt complex in coordination nanochannels. Chemical Communications, 2011, 47, 1722.	2.2	47
77	Gas detection by structural variations of fluorescent guest molecules in a flexible porous coordination polymer. Nature Materials, 2011, 10, 787-793.	13.3	395
78	Effects of Unsaturated Metal Sites on Radical Vinyl Polymerization in Coordination Nanochannels. Macromolecules, 2011, 44, 2693-2697.	2.2	40
79	End-functionalization of a vinylidene fluoride oligomer in coordination nanochannels. Journal of Materials Chemistry, 2011, 21, 8021.	6.7	9
80	Incarceration of Nanosized Silica into Porous Coordination Polymers: Preparation, Characterization, and Adsorption Property. Chemistry of Materials, 2011, 23, 1736-1741.	3.2	28
81	Polymer Synthesis in Coordination Nanospaces. Bulletin of the Chemical Society of Japan, 2011, 84, 1169-1177.	2.0	12
82	Unveiling thermal transitions of polymers in subnanometre pores. Nature Communications, 2010, 1, 83.	5.8	210
83	Functionalization of Coordination Nanochannels for Controlling Tacticity in Radical Vinyl Polymerization. Journal of the American Chemical Society, 2010, 132, 4917-4924.	6.6	108
84	Controlled Polymerization by Incarceration of Monomers in Nanochannels. Topics in Current Chemistry, 2009, 293, 155-173.	4.0	12
85	Polymerization reactions in porous coordination polymers. Chemical Society Reviews, 2009, 38, 1228.	18.7	611
86	Template Synthesis of Porous Polypyrrole in 3D Coordination Nanochannels. Chemistry of Materials, 2009, 21, 4096-4098.	3.2	91
87	Fabrication of Twoâ€Dimensional Polymer Arrays: Template Synthesis of Polypyrrole between Redoxâ€Active Coordination Nanoslits. Angewandte Chemie - International Edition, 2008, 47, 9883-9886.	7.2	126
88	Radical Polymerization of Vinyl Monomers in Porous Coordination Polymers:â€‰ Nanochannel Size Effects on Reactivity, Molecular Weight, and Stereostructure. Macromolecules, 2008, 41, 87-94.	2.2	200
89	Conformation and Molecular Dynamics of Single Polystyrene Chain Confined in Coordination Nanospace. Journal of the American Chemical Society, 2008, 130, 6781-6788.	6.6	133
90	Solâ^'Gel Synthesis of Low-Dimensional Silica within Coordination Nanochannels. Journal of the American Chemical Society, 2008, 130, 9216-9217.	6.6	44

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91	Radical Copolymerizations of Vinyl Monomers in a Porous Coordination Polymer. Chemistry Letters, 2008, 37, 616-617.	0.7	28
92	Layer-by-layer films based on charge transfer interaction of Ït-conjugated poly(dithiafulvene) and incorporation of gold nanoparticles into the films. Journal of Applied Polymer Science, 2007, 103, 1608-1615.	1.3	3
93	Topotactic Linear Radical Polymerization of Divinylbenzenes in Porous Coordination Polymers. Angewandte Chemie - International Edition, 2007, 46, 4987-4990.	7.2	124
94	Effect of Organic Polymer Additive on Crystallization of Porous Coordination Polymer. Chemistry of Materials, 2006, 18, 992-995.	3.2	83
95	Stepwise Guest Adsorption with Large Hysteresis in a Coordination Polymer {[Cu(bhnq)(THF)2](THF)}n Constructed from a Flexible Hingelike Ligand. Inorganic Chemistry, 2006, 45, 4322-4324.	1.9	41
96	Polymerization in Coordination Nanospaces. Chemistry - an Asian Journal, 2006, 1, 36-44.	1.7	127
97	Nanochannel-Promoted Polymerization of Substituted Acetylenes in Porous Coordination Polymers. Angewandte Chemie - International Edition, 2006, 45, 4112-4116.	7.2	233
98	Amphiphilic Tetrathiafulvalene Derivative: Charge-Transfer Complexation Behavior in Solutions. Bulletin of the Chemical Society of Japan, 2005, 78, 519-522.	2.0	0
99	Nanocrystals of Coordination Polymers. Chemistry Letters, 2005, 34, 132-137.	0.7	75
100	Radical polymerisation of styrene in porous coordination polymers. Chemical Communications, 2005, , 5968.	2.2	148
101	Functional Macromolecules with Electron-Donating Dithiafulvene Unit. Advances in Polymer Science, 2004, , 81-106.	0.4	13
102	Creation of Molecular-Assembling, -Stressing, and Converting Fields Based on Nanospaces of Metal Complexes. ChemInform, 2004, 35, no.	0.1	0
103	A trans-Chelating Bisphosphine Possessing only Planar Chirality and Its Application to Catalytic Asymmetric Reactions.. ChemInform, 2004, 35, no.	0.1	0
104	A trans-chelating bisphosphine possessing only planar chirality and its application to catalytic asymmetric reactions. Tetrahedron: Asymmetry, 2004, 15, 2263-2271.	1.8	44
105	Size and Surface Effects of Prussian Blue Nanoparticles Protected by Organic Polymers. Inorganic Chemistry, 2004, 43, 7339-7345.	1.9	190
106	Creation of Molecular-Assembling, -Stressing, and Converting Fields Based on Nanospaces of Metal Complexes. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2004, 62, 424-432.	0.0	1
107	Synthesis and properties of ?-conjugated dithiafulvene oligomers by addition of a monofunctionalized compound. Journal of Polymer Science Part A, 2003, 41, 708-715.	2.5	4
108	Prussian Blue Nanoparticles Protected by Poly(vinylpyrrolidone). Journal of the American Chemical Society, 2003, 125, 7814-7815.	6.6	414

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109	Preparation of Oriented Ultrathin Films via Self-Assembly Based on Charge Transfer Interaction between Ï€-Conjugated Poly(dithiafulvene) and Acceptor Polymer. Macromolecules, 2003, 36, 533-535.	2.2	28
110	Synthesis of Novel Stable Nanometer-Sized Metal (M = Pd, Au, Pt) Colloids Protected by a Ï€-Conjugated Polymer. Langmuir, 2002, 18, 277-283.	1.6	124
111	Intramolecular Charge-Transfer Polymers between Dithiafulvene and Pyridinium Units: Conjugative Effect through Saturated Polymethylene Chains. Bulletin of the Chemical Society of Japan, 2002, 75, 2673-2679.	2.0	3
112	Self-Complexation of a Poly-Conjugated Donor Molecule with a Cyclic Acceptor. Bulletin of the Chemical Society of Japan, 2002, 75, 2053-2057.	2.0	8
113	Ï€-Conjugated Poly(dithiafulvene)s and Poly(diselenafulvene)s:Â Effects of Side Alkyl Chains on Optical, Electrochemical, and Conducting Properties. Macromolecules, 2002, 35, 3539-3543.	2.2	14
114	Preparation, Optical Spectroscopy, and Electrochemical Studies of Novel Ï€-Conjugated Polymer-Protected Stable PbS Colloidal Nanoparticles in a Nonaqueous Solution. Langmuir, 2002, 18, 5287-5292.	1.6	61
115	Ï€-Conjugated Polymers with Electroactive Thioketene Dimer Unit. Macromolecules, 2002, 35, 3806-3809.	2.2	8
116	Preparation of Ï€-conjugated polymer-protected gold nanoparticles in stable colloidal form. Chemical Communications, 2001, , 613-614.	2.2	55
117	Synthesis and luminescent properties of bithiazole and dithiafulvene derivatives. Synthetic Metals, 2001, 121, 1689-1690.	2.1	8
118	Synthesis of a Ï€-Conjugated Poly(thioketene dimer) and Its Electron-Donating Property. Macromolecules, 2001, 34, 346-348.	2.2	12
119	Electron-Accepting System of Siâˆ’Si Bond in Linear Framework by Combination with Strong Donor. Journal of the American Chemical Society, 2001, 123, 6209-6210.	6.6	12
120	Synthesis and properties of oxygen-, methylene-, and alkylene-bridged poly(dithiafulvene)s. Journal of Polymer Science Part A, 2001, 39, 3593-3603.	2.5	0
121	Alternating ?-conjugated copolymer of dithiafulvene with 2,2?-bipyridyl units. Journal of Polymer Science Part A, 2001, 39, 4083-4090.	2.5	14
122	Linearly Extended Ï€-Conjugated Dithiafulvene Polymer Formed Soluble Charge-Transfer Complex with 7,7,8,8-Tetracyanoquinodimethane. Polymer Journal, 2000, 32, 435-439.	1.3	33
123	A Polymer with Two Different Redox Centers in the Ï€-Conjugated Main Chain:Â Alternate Combinations of Ferrocene and Dithiafulvene. Macromolecules, 2000, 33, 6965-6969.	2.2	48
124	Synthesis and Properties of Ï€-Conjugated Poly(dithiafulvene)s by Cycloaddition Polymerization of Heteroaromatic Bisthioketenes. Macromolecules, 2000, 33, 4733-4737.	2.2	27
125	Synthesis of a trans-chelating chiral diphosphine ligand with only planar chirality and its application to asymmetric hydrosilylation of ketones. Tetrahedron Letters, 1999, 40, 1327-1330.	0.7	76
126	Synthesis of polymers having 1,3-cyclobutanedione unit in the main chain by cycloaddition polymerization of bisketene. Polymer Bulletin, 1999, 42, 367-372.	1.7	3

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127	Ï€-Conjugated Poly(dithiafulvene) by Cycloaddition Polymerization of Aldothioketene with Its Alkynethiol Tautomer. Polymerization, Optical Properties, and Electrochemical Analysis. Macromolecules, 1999, 32, 4641-4646.	2.2	35
128	Synthesis of Ï€-Conjugated Poly(dithiafulvene) by Cycloaddition Polymerization of Aldothioketene with Its Alkynethiol Tautomer. Macromolecules, 1998, 31, 7570-7571.	2.2	33
129	Compositional Phase Separation in La2-xBaxCuOynear the Optimum Composition for Superconductivity. Journal of the Physical Society of Japan, 1993, 62, 1114-1117.	0.7	14
130	Meissner Effect in La2-xBaxCuOyas Functions ofxandy. Journal of the Physical Society of Japan, 1991, 60, 1300-1305.	0.7	11