Takashi Uemura

List of Publications by Citations

128 papers	6,723 citations	41 h-index	80 g-index
142 ext. papers	7,432 ext. citations	9.9 avg, IF	6.16 L-index

#	Paper	IF	Citations
128	Polymerization reactions in porous coordination polymers. *Chemical Society Reviews*, **2009**, 38, 1228-36	58.5	568
127	Hybridization of MOFs and polymers. *Chemical Society Reviews*, **2017**, 46, 3108-3133	58.5	515
126	Prussian blue nanoparticles protected by poly(vinylpyrrolidone). *Journal of the American Chemical Society*, **2003**, 125, 7814-5	16.4	365
125	Gas detection by structural variations of fluorescent guest molecules in a flexible porous coordination polymer. *Nature Materials*, **2011**, 10, 787-93	27	351
124	Guest-to-host transmission of structural changes for stimuli-responsive adsorption property. *Journal of the American Chemical Society*, **2012**, 134, 4501-4	16.4	276
123	Nanochannel-promoted polymerization of substituted acetylenes in porous coordination polymers. *Angewandte Chemie - International Edition*, **2006**, 45, 4112-6	16.4	220
122	Radical Polymerization of Vinyl Monomers in Porous Coordination Polymers: Nanochannel Size Effects on Reactivity, Molecular Weight, and Stereostructure. *Macromolecules*, **2008**, 41, 87-94	5.5	180
121	Size and surface effects of prussian blue nanoparticles protected by organic polymers. *Inorganic Chemistry*, **2004**, 43, 7339-45	5.1	178
120	Inorganic nanoparticles in porous coordination polymers. *Chemical Society Reviews*, **2016**, 45, 3828-45	58.5	173
119	Autonomous motors of a metal-organic framework powered by reorganization of self-assembled peptides at interfaces. *Nature Materials*, **2012**, 11, 1081-5	27	169
118	Unveiling thermal transitions of polymers in subnanometre pores. *Nature Communications*, **2010**, 1, 83	17.4	164
117	Highly ordered alignment of a vinyl polymer by host-guest cross-polymerization. *Nature Chemistry*, **2013**, 5, 335-41	17.6	152
116	Nanostructuration of PEDOT in Porous Coordination Polymers for Tunable Porosity and Conductivity. *Journal of the American Chemical Society*, **2016**, 138, 10088-91	16.4	152
115	Radical polymerisation of styrene in porous coordination polymers. *Chemical Communications*, **2005**, 5968-70	5.8	135
114	Polymerization in coordination nanospaces. *Chemistry - an Asian Journal*, **2006**, 1, 36-44	4.5	122
113	Conformation and molecular dynamics of single polystyrene chain confined in coordination nanospace. *Journal of the American Chemical Society*, **2008**, 130, 6781-8	16.4	119
112	Fabrication of two-dimensional polymer arrays: template synthesis of polypyrrole between redox-active coordination nanoslits. *Angewandte Chemie - International Edition*, **2008**, 47, 9883-6	16.4	118

111	Synthesis of Novel Stable Nanometer-Sized Metal (M = Pd, Au, Pt) Colloids Protected by a Conjugated Polymer. *Langmuir*, **2002**, 18, 277-283	4	113
110	Topotactic linear radical polymerization of divinylbenzenes in porous coordination polymers. *Angewandte Chemie - International Edition*, **2007**, 46, 4987-90	16.4	108
109	Functionalization of coordination nanochannels for controlling tacticity in radical vinyl polymerization. *Journal of the American Chemical Society*, **2010**, 132, 4917-24	16.4	99
108	A phase transformable ultrastable titanium-carboxylate framework for photoconduction. *Nature Communications*, **2018**, 9, 1660	17.4	98
107	Highly photoconducting stacked polymer accommodated in coordination nanochannels. *Journal of the American Chemical Society*, **2012**, 134, 8360-3	16.4	92
106	Template Synthesis of Porous Polypyrrole in 3D Coordination Nanochannels. *Chemistry of Materials*, **2009**, 21, 4096-4098	9.6	81
105	Supramolecular Chiral Nanoarchitectonics. *Advanced Materials*, **2020**, 32, e1905657	24	76
104	Effect of Organic Polymer Additive on Crystallization of Porous Coordination Polymer. *Chemistry of Materials*, **2006**, 18, 992-995	9.6	75
103	Nanocrystals of Coordination Polymers. *Chemistry Letters*, **2005**, 34, 132-137	1.7	73
102	Confinement of single polysilane chains in coordination nanospaces. *Journal of the American Chemical Society*, **2015**, 137, 5231-8	16.4	61
101	Controlled polymerizations using metal-organic frameworks. *Chemical Communications*, **2018**, 54, 11843-11856	5.8	60
100	Peptide-Metal Organic Framework Swimmers that Direct the Motion toward Chemical Targets. *Nano Letters*, **2015**, 15, 4019-23	11.5	58
99	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	2	58
98	Preparation, Optical Spectroscopy, and Electrochemical Studies of Novel Conjugated Polymer-Protected Stable PbS Colloidal Nanoparticles in a Nonaqueous Solution. *Langmuir*, **2002**, 18, 5287-5292	4	57
97	Opening of an Accessible Microporosity in an Otherwise Nonporous Metal-Organic Framework by Polymeric Guests. *Journal of the American Chemical Society*, **2017**, 139, 7886-7892	16.4	52
96	Mixing of immiscible polymers using nanoporous coordination templates. *Nature Communications*, **2015**, 6, 7473	17.4	50
95	Preparation of conjugated polymer-protected gold nanoparticles in stable colloidal form. *Chemical Communications*, **2001**, 613-614	5.8	49
94	Controlled Synthesis of Anisotropic Polymer Particles Templated by Porous Coordination Polymers. *Chemistry of Materials*, **2013**, 25, 3772-3776	9.6	48

93	A Polymer with Two Different Redox Centers in the π-Conjugated Main Chain: Alternate Combinations of Ferrocene and Dithiafulvene. *Macromolecules*, **2000**, 33, 6965-6969	5.5	48
92	Sequence-regulated copolymerization based on periodic covalent positioning of monomers along one-dimensional nanochannels. *Nature Communications*, **2018**, 9, 329	17.4	47
91	Nanochannel-Promoted Polymerization of Substituted Acetylenes in Porous Coordination Polymers. *Angewandte Chemie*, **2006**, 118, 4218-4222	3.6	43
90	Peptide assembly-driven metal-organic framework (MOF) motors for micro electric generators. *Advanced Materials*, **2015**, 27, 288-91	24	42
89	Unraveling Inter- and Intrachain Electronics in Polythiophene Assemblies Mediated by Coordination Nanospaces. *Angewandte Chemie - International Edition*, **2016**, 55, 708-13	16.4	41
88	Inclusion and dynamics of a polymer-Li salt complex in coordination nanochannels. *Chemical Communications*, **2011**, 47, 1722-4	5.8	41
87	Sol-gel synthesis of low-dimensional silica within coordination nanochannels. *Journal of the American Chemical Society*, **2008**, 130, 9216-7	16.4	40
86	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, 4322-4	5.1	39
85	Effects of Unsaturated Metal Sites on Radical Vinyl Polymerization in Coordination Nanochannels. *Macromolecules*, **2011**, 44, 2693-2697	5.5	36
84	A trans-chelating bisphosphine possessing only planar chirality and its application to catalytic asymmetric reactions. *Tetrahedron: Asymmetry*, **2004**, 15, 2263-2271		35
83	π-Conjugated Poly(dithiafulvene) by Cycloaddition Polymerization of Aldothioketene with Its Alkynethiol Tautomer. Polymerization, Optical Properties, and Electrochemical Analysis. *Macromolecules*, **1999**, 32, 4641-4646	5.5	33
82	Synthesis of π-Conjugated Poly(dithiafulvene) by Cycloaddition Polymerization of Aldothioketene with Its Alkynethiol Tautomer. *Macromolecules*, **1998**, 31, 7570-7571	5.5	32
81	Linearly Extended π-Conjugated Dithiafulvene Polymer Formed Soluble Charge-Transfer Complex with 7,7,8,8-Tetracyanoquinodimethane. *Polymer Journal*, **2000**, 32, 435-439	2.7	31
80	Recognition of Polymer Terminus by Metal-Organic Frameworks Enabling Chromatographic Separation of Polymers. *Journal of the American Chemical Society*, **2020**, 142, 3701-3705	16.4	28
79	Transcription of Chirality from Metal-Organic Framework to Polythiophene. *Journal of the American Chemical Society*, **2019**, 141, 19565-19569	16.4	28
78	Preparation of polythiophene microrods with ordered chain alignment using nanoporous coordination template. *Polymer Chemistry*, **2017**, 8, 5077-5081	4.9	26
77	Behavior of Binary Guests in a Porous Coordination Polymer. *Chemistry of Materials*, **2012**, 24, 4744-4749	9.6	26
76	Fabrication of Two-Dimensional Polymer Arrays: Template Synthesis of Polypyrrole between Redox-Active Coordination Nanoslits. *Angewandte Chemie*, **2008**, 120, 10031-10034	3.6	26

75	Preparation of Oriented Ultrathin Films via Self-Assembly Based on Charge Transfer Interaction between π-Conjugated Poly(dithiafulvene) and Acceptor Polymer. *Macromolecules*, **2003**, 36, 533-535	5.5	26
74	Synthesis and Properties of π-Conjugated Poly(dithiafulvene)s by Cycloaddition Polymerization of Heteroaromatic Bisthioketenes. *Macromolecules*, **2000**, 33, 4733-4737	5.5	26
73	Selective sorting of polymers with different terminal groups using metal-organic frameworks. *Nature Communications*, **2018**, 9, 3635	17.4	26
72	Enhanced mechanical properties of a metal-organic framework by polymer insertion. *Chemical Communications*, **2019**, 55, 691-694	5.8	25
71	Molecular-Level Studies on Dynamic Behavior of Oligomeric Chain Molecules in Porous Coordination Polymers. *Journal of Physical Chemistry C*, **2015**, 119, 21504-21514	3.8	25
70	The controlled synthesis of polyglucose in one-dimensional coordination nanochannels. *Chemical Communications*, **2016**, 52, 5156-9	5.8	25
69	Controlled Cyclopolymerization of Difunctional Vinyl Monomers in Coordination Nanochannels. *Macromolecules*, **2014**, 47, 7321-7326	5.5	25
68	Incarceration of Nanosized Silica into Porous Coordination Polymers: Preparation, Characterization, and Adsorption Property. *Chemistry of Materials*, **2011**, 23, 1736-1741	9.6	25
67	Radical Copolymerizations of Vinyl Monomers in a Porous Coordination Polymer. *Chemistry Letters*, **2008**, 37, 616-617	1.7	25
66	Radical Copolymerization Mediated by Unsaturated Metal Sites in Coordination Nanochannels. *ACS Macro Letters*, **2015**, 4, 788-791	6.6	24
65	Radical polymerization of 2,3-dimethyl-1,3-butadiene in coordination nanochannels. *Chemical Communications*, **2015**, 51, 9892-5	5.8	24
64	Radical Polymerization of Vinyl Monomers in Porous Organic Cages. *Angewandte Chemie - International Edition*, **2016**, 55, 6443-7	16.4	24
63	Topotactic Linear Radical Polymerization of Divinylbenzenes in Porous Coordination Polymers. *Angewandte Chemie*, **2007**, 119, 5075-5078	3.6	23
62	Scalable and Precise Synthesis of Armchair-Edge Graphene Nanoribbon in Metal-Organic Framework. *Journal of the American Chemical Society*, **2020**, 142, 5509-5514	16.4	19
61	A fluorescent microporous crystalline dendrimer discriminates vapour molecules. *Chemical Communications*, **2018**, 54, 2534-2537	5.8	17
60	Oxidative polymerization of terthiophene and a substituted thiophene monomer in metal-organic framework thin films. *European Polymer Journal*, **2018**, 109, 162-168	5.2	17
59	Preparation of Porous Polysaccharides Templated by Coordination Polymer with Three-Dimensional Nanochannels. *ACS Applied Materials & Interfaces*, **2017**, 9, 11373-11379	9.5	16
58	Inclusion and dielectric properties of a vinylidene fluoride oligomer in coordination nanochannels. *Dalton Transactions*, **2012**, 41, 4195-8	4.3	16

57	Metal-Organic Frameworks for Macromolecular Recognition and Separation. *Matter*, **2020**, 3, 652-663	12.7	16
56	Confinement of poly(allylamine) in Preyssler-type polyoxometalate and potassium ion framework for enhanced proton conductivity. *Communications Chemistry*, **2019**, 2,	6.3	15
55	Polymer in MOF Nanospace: from Controlled Chain Assembly to New Functional Materials. *Israel Journal of Chemistry*, **2018**, 58, 995-1009	3.4	15
54	Controlling the Packing of Metal-Organic Layers by Inclusion of Polymer Guests. *Journal of the American Chemical Society*, **2019**, 141, 14549-14553	16.4	14
53	Fluorinated porous molecular crystals: vapor-triggered on-off switching of luminescence and porosity. *Chemical Communications*, **2019**, 55, 6487-6490	5.8	14
52	Carbonization of single polyacrylonitrile chains in coordination nanospaces. *Chemical Science*, **2020**, 11, 10844-10849	9.4	14
51	Unimolecularly thick monosheets of vinyl polymers fabricated in metal-organic frameworks. *Nature Communications*, **2020**, 11, 3573	17.4	14
50	Controlled Encapsulation of Photoresponsive Macromolecules in Porous Coordination Polymer. *Chemistry Letters*, **2013**, 42, 222-223	1.7	12
49	Polymer Synthesis in Coordination Nanospaces. *Bulletin of the Chemical Society of Japan*, **2011**, 84, 1169-1177	5	12
48	Functional Macromolecules with Electron-Donating Dithiafulvene Unit. *Advances in Polymer Science*, **2004**, 81-106	1.3	12
47	Alternating □conjugated copolymer of dithiafulvene with 2,2?-bipyridyl units. *Journal of Polymer Science Part A*, **2001**, 39, 4083-4090	2.5	12
46	Electron-accepting system of Si-Si bond in linear framework by combination with strong donor. *Journal of the American Chemical Society*, **2001**, 123, 6209-10	16.4	12
45	How Reproducible are Surface Areas Calculated from the BET Equation?. *Advanced Materials*,2201502	24	12
44	Controlled polymerization by incarceration of monomers in nanochannels. *Topics in Current Chemistry*, **2010**, 293, 155-73		11
43	Compositional Phase Separation in La2-xBaxCuOynear the Optimum Composition for Superconductivity. *Journal of the Physical Society of Japan*, **1993**, 62, 1114-1117	1.5	11
42	Thermal ring-opening polymerization of an unsymmetrical silicon-bridged [1]ferrocenophane in coordination nanochannels. *Chemical Communications*, **2017**, 53, 6945-6948	5.8	11
41	Polymers in Metal□Organic Frameworks: From Nanostructured Chain Assemblies to New Functional Materials. *Chemistry Letters*, **2020**, 49, 624-632	1.7	10
40	□Conjugated Poly(dithiafulvene)s and Poly(diselenafulvene)s: Effects of Side Alkyl Chains on Optical, Electrochemical, and Conducting Properties. *Macromolecules*, **2002**, 35, 3539-3543	5.5	10

39	Synthesis of a Conjugated Poly(thioketene dimer) and Its Electron-Donating Property. *Macromolecules*, **2001**, 34, 346-348	5.5	10
38	Meissner Effect in La2-xBaxCuOyas Functions ofxandy. *Journal of the Physical Society of Japan*, **1991**, 60, 1300-1305	1.5	10
37	Radical Polymerization of Vinyl Monomers in Porous Organic Cages. *Angewandte Chemie*, **2016**, 128, 6553-6557	3.6	10
36	Supramolecular approaches towards ordered polymer materials. *Chemistry - A European Journal*, **2014**, 20, 1482-9	4.8	9
35	Controlled Organization of Anthracene in Porous Coordination Polymers. *Chemistry Letters*, **2017**, 46, 1705-1707	1.7	9
34	Impact of the position of the imine linker on the optoelectronic performance of conjugated organic frameworks. *Molecular Systems Design and Engineering*, **2019**, 4, 325-331	4.6	8
33	Unraveling Inter- and Intrachain Electronics in Polythiophene Assemblies Mediated by Coordination Nanospaces. *Angewandte Chemie*, **2016**, 128, 718-723	3.6	8
32	Self-Complexation of a Poly-Conjugated Donor Molecule with a Cyclic Acceptor. *Bulletin of the Chemical Society of Japan*, **2002**, 75, 2053-2057	5.1	8
31	Conjugated Polymers with Electroactive Thioketene Dimer Unit. *Macromolecules*, **2002**, 35, 3806-3809	5.5	8
30	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. *Angewandte Chemie - International Edition*, **2021**, 60, 11830-11834	16.4	8
29	Hybridization of Synthetic Humins with a Metal-Organic Framework for Precious Metal Recovery and Reuse.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60027-60034	9.5	8
28	Sol–gel synthesis of nanosized titanium oxide in a porous coordination polymer. *Microporous and Mesoporous Materials*, **2014**, 195, 31-35	5.3	7
27	End-functionalization of a vinylidene fluoride oligomer in coordination nanochannels. *Journal of Materials Chemistry*, **2011**, 21, 8021		7
26	Synthesis and luminescent properties of bithiazole and dithiafulvene derivatives. *Synthetic Metals*, **2001**, 121, 1689-1690	3.6	7
25	Selective Formation of End-on Orientation between Polythiophene and Fullerene Mediated by Coordination Nanospaces. *Journal of Physical Chemistry C*, **2018**, 122, 24182-24189	3.8	7
24	Fabrication of Ceria Nanoparticles Incorporated in Porous Coordination Polymer. *Chemistry Letters*, **2014**, 43, 1749-1751	1.7	6
23	Development of Functional Materials via Polymer Encapsulation into Metal–Organic Frameworks. *Bulletin of the Chemical Society of Japan*, **2021**, 94, 2139-2148	5.1	6
22	Metal-Organic Frameworks as Versatile Media for Polymer Adsorption and Separation. *Accounts of Chemical Research*, **2021**, 54, 3593-3603	24.3	6

21	Revisiting molecular adsorption: unconventional uptake of polymer chains from solution into sub-nanoporous media. *Chemical Science*, **2021**, 12, 12576-12586	9.4	5
20	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
19	Reciprocal regulation between MOFs and polymers. *Coordination Chemistry Reviews*, **2022**, 466, 214601	23.2	4
18	Synthesis of chiral porous coordination polymer that shows structural transformation induced by guest molecules. *Inorganica Chimica Acta*, **2015**, 424, 221-225	2.7	3
17	Layer-by-layer films based on charge transfer interaction of ?-conjugated poly(dithiafulvene) and incorporation of gold nanoparticles into the films. *Journal of Applied Polymer Science*, **2007**, 103, 1608-1615	2.9	3
16	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	2.7	3
15	Synthesis of polymers having 1,3-cyclobutanedione unit in the main chain by cycloaddition polymerization of bisketene. *Polymer Bulletin*, **1999**, 42, 367-372	2.4	3
14	Terminus-dependent insertion of molten poly(ethylene glycol) into a flexible metal-organic framework. *European Polymer Journal*, **2020**, 134, 109855	5.2	2
13	Polymer-Friendly Metal□Organic Frameworks **2011**, 175-189		2
12	Controlled Polymer Synthesis in Coordination Nanochannels. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2012**, 70, 324-330	0.2	1
11	Polymerization in Confined Geometries **2012**, 1011-1026		1
10	Coordination Nanochannels for Polymer Materials. *Springer Briefs in Molecular Science*, **2013**, 41-48	0.6	1
9	Chiral Induction in Buckminsterfullerene Using a Metal□Organic Framework. *Angewandte Chemie*, **2021**, 133, 18091-18095	3.6	1
8	Chiral Induction in Buckminsterfullerene Using a Metal-Organic Framework. *Angewandte Chemie - International Edition*, **2021**, 60, 17947-17951	16.4	1
7	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	0.2	0
6	Kinetic Control in Synthesis of Polymers Using Nanoporous Metal-Organic Frameworks **2019**, 185-204		0
5	Precision Polymer Synthesis in Porous Metal-Organic Frameworks. *Kobunshi Ronbunshu*, **2015**, 72, 191-198		
4	Amphiphilic Tetrathiafulvalene Derivative: Charge-Transfer Complexation Behavior in Solutions. *Bulletin of the Chemical Society of Japan*, **2005**, 78, 519-522	5.1	

3	Synthesis and properties of oxygen-, methylene-, and alkylene-bridged poly(dithiafulvene)s. *Journal of Polymer Science Part A*, **2001**, 39, 3593-3603	2.5
2	Crystalline Coordination Nanospaces for Development of New Polymer Chemistry. *Nihon Kessho Gakkaishi*, **2013**, 55, 75-80	0
1	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. *Angewandte Chemie*, **2021**, 133, 11936-11940	3.6