

# Kenji Hirai

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54  
papers

2,385  
citations

21  
h-index

48  
g-index

60  
ext. papers

2,610  
ext. citations

8.3  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
54	All-Optical and One-Color Rewritable Chemical Patterning on Pristine Graphene under Water.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 3796-3803	6.4	0
53	Li@C thin films: characterization and nonlinear optical properties.. <i>RSC Advances</i> , <b>2021</b> , 12, 389-394	3.7	1
52	Adaptive Optical Two-Photon Microscopy for Surface-Profiled Living Biological Specimens. <i>ACS Omega</i> , <b>2021</b> , 6, 438-447	3.9	5
51	Polariton Chemistry in Cavity Vacuum Fields. <i>Chemistry Letters</i> , <b>2021</b> , 50, 727-732	1.7	
50	Data science assisted investigation of catalytically active copper hydrate in zeolites for direct oxidation of methane to methanol using HO. <i>Scientific Reports</i> , <b>2021</b> , 11, 2067	4.9	5
49	Selective crystallization vibrational strong coupling. <i>Chemical Science</i> , <b>2021</b> , 12, 11986-11994	9.4	9
48	Gold-Photodeposited Silver Nanowire Endoscopy for Cytosolic and Nuclear pH Sensing. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 9886-9894	5.6	1
47	Controlled Fabrication of Optical Signal Input/Output Sites on Plasmonic Nanowires. <i>Nano Letters</i> , <b>2020</b> , 20, 2460-2467	11.5	6
46	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17931-17937	16.4	6
45	Modulation of Prins Cyclization by Vibrational Strong Coupling. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5370-5373	16.4	15
44	Modulation of Prins Cyclization by Vibrational Strong Coupling. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5332-5335	16.4	45
43	Plasmon-Associated Control of Chemical Reaction at Nanometer Scale <b>2020</b> , 117-133		
42	Label-free visualization of heterogeneities and defects in metal-organic frameworks using nonlinear optics. <i>Chemical Communications</i> , <b>2020</b> , 56, 13331-13334	5.8	5
41	Low-Cytotoxic Gold-Coated Silver Nanoflowers for Intracellular pH Sensing. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7643-7650	5.6	7
40	Multicolour photochromic fluorescence of a fluorophore encapsulated in a metal-organic framework. <i>Chemical Communications</i> , <b>2020</b> , 56, 9651-9654	5.8	3
39	Recent Progress in Vibropolaritonic Chemistry. <i>ChemPlusChem</i> , <b>2020</b> , 85, 1981-1988	2.8	27
38	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18087-18093	3.6	2

37	Water-mediated polyol synthesis of pencil-like sharp silver nanowires suitable for nonlinear plasmonics. <i>Chemical Communications</i> , <b>2019</b> , 55, 11630-11633	5.8	5
36	The Rise of Catalyst Informatics: Towards Catalyst Genomics. <i>ChemCatChem</i> , <b>2019</b> , 11, 1146-1152	5.2	52
35	Pyrolysis of Helical Coordination Polymers for Metal-Sulfide-Based Helices with Broadband Chiroptical Activity. <i>ACS Nano</i> , <b>2017</b> , 11, 5309-5317	16.7	13
34	Infrared laser writing of MOFs. <i>Chemical Communications</i> , <b>2017</b> , 53, 5275-5278	5.8	9
33	Solid-Solution Coordination Polymers as Precursors for ZnxCd1-xS/C Composite Nanowires. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 2444-2449	2.3	4
32	Nanoparticle Assemblies into Luminescent Dendrites in Shrinking Microdroplets. <i>Langmuir</i> , <b>2016</b> , 32, 12468-12475	4	2
31	Gas-generated thermal oxidation of a coordination cluster for an anion-doped mesoporous metal oxide. <i>Scientific Reports</i> , <b>2015</b> , 5, 18468	4.9	2
30	Coordination Assembly of Discoid Nanoparticles. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9094-9098	3.6	3
29	Coordination Assembly of Discoid Nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8966-70	16.4	21
28	Innentitelbild: Coordination Assembly of Discoid Nanoparticles (Angew. Chem. 31/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8976-8976	3.6	
27	Diffusion-coupled molecular assembly: structuring of coordination polymers across multiple length scales. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 14966-73	16.4	43
26	Confined synthesis of CdSe quantum dots in the pores of metalorganic frameworks. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 7173-7175	7.1	29
25	Impact of crystal orientation on the adsorption kinetics of a porous coordination polymer/quartz crystal microbalance hybrid sensor. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 3336	7.1	32
24	Trapping of a spatial transient state during the framework transformation of a porous coordination polymer. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4938-44	16.4	21
23	Shape-memory nanopores induced in coordination frameworks by crystal downsizing. <i>Science</i> , <b>2013</b> , 339, 193-6	33.3	397
22	Binary Janus Porous Coordination Polymer Coatings for Sensor Devices with Tunable Analyte Affinity. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 359-363	3.6	32
21	Binary Janus porous coordination polymer coatings for sensor devices with tunable analyte affinity. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 341-5	16.4	116
20	Programmed crystallization via epitaxial growth and ligand replacement towards hybridizing porous coordination polymer crystals. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15868-72	4.3	24

19	Host-Guest Metal-Organic Frameworks for Photonics. <i>Structure and Bonding</i> , <b>2013</b> , 167-186	0.9	5
18	Redox reaction in two-dimensional porous coordination polymers based on ferrocenedicarboxylates. <i>Dalton Transactions</i> , <b>2012</b> , 41, 3924-7	4.3	45
17	Targeted functionalisation of a hierarchically-structured porous coordination polymer crystal enhances its entire function. <i>Chemical Communications</i> , <b>2012</b> , 48, 6472-4	5.8	45
16	Mesoscopic architectures of porous coordination polymers fabricated by pseudomorphic replication. <i>Nature Materials</i> , <b>2012</b> , 11, 717-23	27	307
15	Surface Chemistry of Porous Coordination Polymers (PCPs) or Metal-Organic Frameworks (MOFs). <i>Hyomen Kagaku</i> , <b>2012</b> , 33, 519-523		2
14	Liquid phase separation of polyaromatics on [Cu <sub>2</sub> (BDC) <sub>2</sub> (dabco)]. <i>Langmuir</i> , <b>2011</b> , 27, 9083-7	4	19
13	MOF-on-MOF heteroepitaxy: perfectly oriented [Zn <sub>2</sub> (ndc) <sub>2</sub> (dabco)] <sub>n</sub> grown on [Cu <sub>2</sub> (ndc) <sub>2</sub> (dabco)] <sub>n</sub> thin films. <i>Dalton Transactions</i> , <b>2011</b> , 40, 4954-8	4.3	134
12	Porous coordination polymer hybrid device with quartz oscillator: effect of crystal size on sorption kinetics. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11932-5	16.4	88
11	Sequential Functionalization of Porous Coordination Polymer Crystals. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 8207-8211	3.6	21
10	Sequential functionalization of porous coordination polymer crystals. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 8057-61	16.4	157
9	Coordinatively Immobilized Monolayers on Porous Coordination Polymer Crystals. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 5455-5458	3.6	30
8	Coordinatively immobilized monolayers on porous coordination polymer crystals. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5327-30	16.4	121
7	Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 1798-1802	3.6	65
6	Titelbild: Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship (Angew. Chem. 10/2009). <i>Angewandte Chemie</i> , <b>2009</b> , 121, 1725-1725	3.6	2
5	Heterogeneously hybridized porous coordination polymer crystals: fabrication of heterometallic core-shell single crystals with an in-plane rotational epitaxial relationship. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1766-70	16.4	256
4	Cover Picture: Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship (Angew. Chem. Int. Ed. 10/2009). <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1697-1697	16.4	3
3	A block PCP crystal: anisotropic hybridization of porous coordination polymers by face-selective epitaxial growth. <i>Chemical Communications</i> , <b>2009</b> , 5097-9	5.8	136
2	Selective Crystallization via Vibrational Strong Coupling		2

1 Selective Crystallization via Vibrational Strong Coupling

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