Kenji Hirai

List of Publications by Year
in descending order

50 papers	2,896 citations	257101 24 h-index	168136 53 g-index
60 all docs	60 docs citations	60 times ranked	3795 citing authors

#	Article	IF	Citations
1	Shape-Memory Nanopores Induced in Coordination Frameworks by Crystal Downsizing. Science, 2013, 339, 193-196.	6.0	483
2	Mesoscopic architectures of porous coordination polymers fabricated by pseudomorphic replication. Nature Materials, 2012, 11, 717-723.	13.3	352
3	Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Coreâ€“Shell Single Crystals with an Inâ€Plane Rotational Epitaxial Relationship. Angewandte Chemie - International Edition, 2009, 48, 1766-1770.	7.2	287
4	Sequential Functionalization of Porous Coordination Polymer Crystals. Angewandte Chemie - International Edition, 2011, 50, 8057-8061.	7.2	175
5	A block PCP crystal: anisotropic hybridization of porous coordination polymers by face-selective epitaxial growth. Chemical Communications, 2009, , 5097.	2.2	147
6	MOF-on-MOF heteroepitaxy: perfectly oriented [Zn2(ndc)2(dabco)]n grown on [Cu2(ndc)2(dabco)]n thin films. Dalton Transactions, 2011, 40, 4954.	1.6	146
7	Coordinatively Immobilized Monolayers on Porous Coordination Polymer Crystals. Angewandte Chemie - International Edition, 2010, 49, 5327-5330.	7.2	133
8	Binary Janus Porous Coordination Polymer Coatings for Sensor Devices with Tunable Analyte Affinity. Angewandte Chemie - International Edition, 2013, 52, 341-345.	7.2	125
9	Porous Coordination Polymer Hybrid Device with Quartz Oscillator: Effect of Crystal Size on Sorption Kinetics. Journal of the American Chemical Society, 2011, 133, 11932-11935.	6.6	98
10	Modulation of Prins Cyclization by Vibrational Strong Coupling. Angewandte Chemie - International Edition, 2020, 59, 5332-5335.	7.2	83
11	The Rise of Catalyst Informatics: Towards Catalyst Genomics. ChemCatChem, 2019, 11, 1146-1152.	1.8	72
12	Recent Progress in Vibropolaritonic Chemistry. ChemPlusChem, 2020, 85, 1981-1988.	1.3	68
13	Diffusion-Coupled Molecular Assembly: Structuring of Coordination Polymers Across Multiple Length Scales. Journal of the American Chemical Society, 2014, 136, 14966-14973.	6.6	50
14	Redox reaction in two-dimensional porous coordination polymers based on ferrocenedicarboxylates. Dalton Transactions, 2012, 41, 3924.	1.6	49
15	Targeted functionalisation of a hierarchically-structured porous coordination polymer crystal enhances its entire function. Chemical Communications, 2012, 48, 6472.	2.2	48
16	Impact of crystal orientation on the adsorption kinetics of a porous coordination polymerâ€“quartz crystal microbalance hybrid sensor. Journal of Materials Chemistry C, 2014, 2, 3336.	2.7	38
17	Confined synthesis of CdSe quantum dots in the pores of metalâ€“organic frameworks. Journal of Materials Chemistry C, 2014, 2, 7173-7175.	2.7	36
18	Selective crystallization via vibrational strong coupling. Chemical Science, 2021, 12, 11986-11994.	3.7	29

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19	Programmed crystallization via epitaxial growth and ligand replacement towards hybridizing porous coordination polymer crystals. Dalton Transactions, 2013, 42, 15868.	1.6	27
20	Modulation of Prins Cyclization by Vibrational Strong Coupling. Angewandte Chemie, 2020, 132, 5370-5373.	1.6	26
21	Coordination Assembly of Discoid Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 8966-8970.	7.2	25
22	Trapping of a Spatial Transient State During the Framework Transformation of a Porous Coordination Polymer. Journal of the American Chemical Society, 2014, 136, 4938-4944.	6.6	24
23	Liquid Phase Separation of Polyaromatics on [Cu2(BDC)2(dabco)]. Langmuir, 2011, 27, 9083-9087.	1.6	19
24	Data science assisted investigation of catalytically active copper hydrate in zeolites for direct oxidation of methane to methanol using H2O2. Scientific Reports, 2021, 11, 2067.	1.6	15
25	Pyrolysis of Helical Coordination Polymers for Metal-Sulfide-Based Helices with Broadband Chiroptical Activity. ACS Nano, 2017, 11, 5309-5317.	7.3	14
26	Adaptive Optical Two-Photon Microscopy for Surface-Profiled Living Biological Specimens. ACS Omega, 2021, 6, 438-447.	1.6	12
27	Infrared laser writing of MOFs. Chemical Communications, 2017, 53, 5275-5278.	2.2	11
28	Pseudoâ€Membrane Jackets: Twoâ€Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. Angewandte Chemie - International Edition, 2020, 59, 17931-17937.	7.2	11
29	Water-mediated polyol synthesis of pencil-like sharp silver nanowires suitable for nonlinear plasmonics. Chemical Communications, 2019, 55, 11630-11633.	2.2	10
30	Low-Cytotoxic Gold-Coated Silver Nanoflowers for Intracellular pH Sensing. ACS Applied Nano Materials, 2020, 3, 7643-7650.	2.4	10
31	Controlled Fabrication of Optical Signal Input/Output Sites on Plasmonic Nanowires. Nano Letters, 2020, 20, 2460-2467.	4.5	10
32	Label-free visualization of heterogeneities and defects in metalâ€“organic frameworks using nonlinear optics. Chemical Communications, 2020, 56, 13331-13334.	2.2	9
33	Autotuning of Vibrational Strong Coupling for Siteâ€Selective Reactions. Chemistry - A European Journal, 2022, 28, .	1.7	9
34	Multicolour photochromic fluorescence of a fluorophore encapsulated in a metalâ€“organic framework. Chemical Communications, 2020, 56, 9651-9654.	2.2	8
35	Pseudoâ€Membrane Jackets: Twoâ€Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. Angewandte Chemie, 2020, 132, 18087-18093.	1.6	7
36	Gold-Photodeposited Silver Nanowire Endoscopy for Cytosolic and Nuclear pH Sensing. ACS Applied Nano Materials, 2021, 4, 9886-9894.	2.4	7

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37	Hostâ€“Guest Metalâ€“Organic Frameworks for Photonics. Structure and Bonding, 2013, , 167-186.	1.0	6
38	Solidâ€“Solution Coordination Polymers as Precursors for Zn_xCd_{1â€“x}S/C Composite Nanowires. European Journal of Inorganic Chemistry, 2017, 2017, 2444-2449.	1.0	5
39	Gold-coated silver nanowires for long lifetime AFM-TERS probes. Nanoscale, 2022, 14, 5439-5446.	2.8	4
40	All-Optical and One-Color Rewritable Chemical Patterning on Pristine Graphene under Water. Journal of Physical Chemistry Letters, 2022, 13, 3796-3803.	2.1	4
41	Host and guest joining forces: a holistic approach for metalâ€“organic frameworks in nonlinear optics. Journal of Materials Chemistry C, 2022, 10, 9471-9477.	2.7	4
42	Cover Picture: Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.0	3
43	Nanoparticle Assemblies into Luminescent Dendrites in Shrinking Microdroplets. Langmuir, 2016, 32, 12468-12475.	1.6	3
44	Titelbild: Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	2
45	Surface Chemistry of Porous Coordination Polymers (PCPs) or Metal-Organic Frameworks (MOFs). Hyomen Kagaku, 2012, 33, 519-523.	0.0	2
46	Gas-generated thermal oxidation of a coordination cluster for an anion-doped mesoporous metal oxide. Scientific Reports, 2016, 5, 18468.	1.6	2
47	Li@C60 thin films: characterization and nonlinear optical properties. RSC Advances, 2021, 12, 389-394.	1.7	2
48	Polariton Chemistry in Cavity Vacuum Fields. Chemistry Letters, 2021, 50, 727-732.	0.7	1
49	Controlling polymorphism of metal-organic frameworks. , 2021, , .		0
50	Plasmon-Associated Control of Chemical Reaction at Nanometer Scale. , 2020, , 117-133.		0