

Yuh Hijikata

List of Publications by Year in descending order

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93
papers

5,051
citations

136885

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91828

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all docs

100
docs citations

100
times ranked

6183
citing authors

#	ARTICLE	IF	CITATIONS
1	Late-stage modification of π -electron systems based on asymmetric oxidation of a medium-sized sulfur-containing ring. <i>Chemical Communications</i> , 2022, 58, 2548-2551.	2.2	3
2	Alkali metal ion binding using cyclic polyketones. <i>Chemical Communications</i> , 2022, 58, 2971-2974.	2.2	6
3	DNA-Mimicking Metal-Organic Frameworks with Accessible Adenine Faces for Complementary Base Pairing. <i>Jacs Au</i> , 2022, 2, 623-630.	3.6	11
4	Strain-Induced Ring Expansion Reactions of Calix[3]pyrrole-Related Macrocycles. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	7
5	Synthesis of a Möbius carbon nanobelt. , 2022, 1, 535-541.		53
6	Trapping and Releasing of Oxygen in Liquid by Metal-Organic Framework with Light and Heat. <i>Small</i> , 2021, 17, 2004351.	5.2	6
7	Alkyl decorated metal-organic frameworks for selective trapping of ethane from ethylene above ambient pressures. <i>Dalton Transactions</i> , 2021, 50, 10423-10435.	1.6	15
8	Double-Helix Supramolecular Nanofibers Assembled from Negatively Curved Nanographenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 5465-5469.	6.6	66
9	Insoluble π -Conjugated Polyimine as an Organic Adsorbent for Group 10 Metal Ions. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1705-1708.	1.0	3
10	A Temporarily Pore-Openable Porous Coordination Polymer for Guest Adsorption/Desorption. <i>Inorganic Chemistry</i> , 2021, 60, 4531-4538.	1.9	10
11	Support Effect of Metal-Organic Frameworks on Ethanol Production through Acetic Acid Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19992-20001.	4.0	12
12	Triplet Carbene with Highly Enhanced Thermal Stability in the Nanospace of a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 8129-8136.	6.6	8
13	Hydroxide Anion Transport in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 8970-8975.	6.6	44
14	Calix[3]pyrrole: A Missing Link in Porphyrin-Related Chemistry. <i>Journal of the American Chemical Society</i> , 2021, 143, 12355-12360.	6.6	30
15	Encapsulation of Aromatic Guests in the Bisporphyrin Cavity of a Double-Stranded Spiroborate Helicate: Thermodynamic and Kinetic Studies and the Encapsulation Mechanism. <i>Journal of Organic Chemistry</i> , 2021, 86, 10501-10516.	1.7	5
16	Accumulated Lattice Strain as an Internal Trigger for Spontaneous Pathway Selection. <i>Journal of the American Chemical Society</i> , 2021, 143, 15319-15325.	6.6	5
17	An elastic metal-organic crystal with a densely catenated backbone. <i>Nature</i> , 2021, 598, 298-303.	13.7	50
18	Flexibility Control of Two-Dimensional Coordination Polymers by Crystal Morphology: Water Adsorption and Thermal Expansion. <i>Chemistry - A European Journal</i> , 2021, 27, 18135-18140.	1.7	8

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19	Trans Influence across a Metal–Metal Bond of a Paddle-Wheel Unit on Interaction with Gases in a Metal–Organic Framework. <i>Inorganic Chemistry</i> , 2020, 59, 1193-1203.	1.9	9
20	Coordinated Water as New Binding Sites for the Separation of Light Hydrocarbons in Metal–Organic Frameworks with Open Metal Sites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9448-9456.	4.0	11
21	Multicolour photochromic fluorescence of a fluorophore encapsulated in a metal–organic framework. <i>Chemical Communications</i> , 2020, 56, 9651-9654.	2.2	8
22	Responsive Four–Coordinate Iron(II) Nodes in FePd(CN) ₄ . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19254-19259.	7.2	18
23	Modulation of Band Gaps toward Varying Conductivities in Heterometallic One-Dimensional Chains by Ligand Alteration and Third Metal Insertion. <i>ACS Omega</i> , 2020, 5, 30502-30518.	1.6	7
24	Photochemically Crushable and Regenerative Metal–Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 14069-14073.	6.6	21
25	Understanding the interactions between the bis(trifluoromethylsulfonyl)imide anion and adsorbed CO ₂ using X-ray diffraction analysis of a soft crystal surrogate. <i>Communications Chemistry</i> , 2020, 3, .	2.0	7
26	Responsive Four–Coordinate Iron(II) Nodes in FePd(CN) ₄ . <i>Angewandte Chemie</i> , 2020, 132, 19416-19421.	1.6	0
27	Controlling the gate-sorption properties of solid solutions of Werner complexes by varying component ratios. <i>Dalton Transactions</i> , 2020, 49, 9438-9443.	1.6	2
28	Topological molecular nanocarbons: All-benzene catenane and trefoil knot. <i>Science</i> , 2019, 365, 272-276.	6.0	192
29	One-Step Synthesis of an Adaptive Nanographene MOF: Adsorbed Gas-Dependent Geometrical Diversity. <i>Journal of the American Chemical Society</i> , 2019, 141, 15649-15655.	6.6	27
30	Dynamic Topochemical Reaction Tuned by Guest Molecules in the Nanospace of a Metal–Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 15742-15746.	6.6	48
31	Creation of MOFs with open metal sites by partial replacement of metal ions with different coordination numbers. <i>Dalton Transactions</i> , 2019, 48, 2545-2548.	1.6	17
32	Consecutive oxidative additions of iodine on undulating 2D coordination polymers: formation of Pt–I chains and inhomogeneous layers. <i>Dalton Transactions</i> , 2019, 48, 7198-7202.	1.6	7
33	The helix–inversion mechanism in double-stranded helical oligomers bridged by rotary cyclic boronate esters. <i>Journal of Computational Chemistry</i> , 2019, 40, 2036-2042.	1.5	0
34	Structural transformations of graphene exposed to nitrogen plasma: quantum chemical molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12112-12120.	1.3	9
35	Seeded Polymerization of an Amide–Functionalized Diketopyrrolopyrrole Dye in Aqueous Media. <i>Chemistry - A European Journal</i> , 2019, 25, 7303-7307.	1.7	34
36	Water-mediated deracemization of a bisporphyrin helicate assisted by diastereoselective encapsulation of chiral guests. <i>Nature Communications</i> , 2019, 10, 1457.	5.8	23

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37	Chiral-selective etching effects on carbon nanotube growth at edge carbon atoms. <i>Journal of Computational Chemistry</i> , 2019, 40, 375-380.	1.5	5
38	Nanopore-induced host-guest charge transfer phenomena in a metal-organic framework. <i>Chemical Science</i> , 2018, 9, 3282-3289.	3.7	28
39	Unidirectional molecular assembly alignment on graphene enabled by nanomechanical symmetry breaking. <i>Scientific Reports</i> , 2018, 8, 2333.	1.6	5
40	A New Porous Polymer for Highly Efficient Capacitive Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 202-209.	3.2	78
41	Ruthenium Nanoparticle-Decorated Porous Organic Network for Direct Hydrodeoxygenation of Long-Chain Fatty Acids to Alkanes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1610-1619.	3.2	48
42	A femtomolar-range suicide germination stimulant for the parasitic plant <i>Striga hermonthica</i> . <i>Science</i> , 2018, 362, 1301-1305.	6.0	101
43	Theoretical analysis of orientations and tautomerization of genistein in β -cyclodextrin. <i>Journal of Molecular Liquids</i> , 2018, 265, 16-23.	2.3	11
44	End-Capping Conjugated Systems with Medium-Sized Sulfur-Containing Rings: A Route Towards Solution-Processable Air-Stable Semiconductors. <i>Chemistry - A European Journal</i> , 2018, 24, 11503-11510.	1.7	5
45	Systematic Study of Photoluminescence Enhancement in Monolayer Molybdenum Disulfide by Acid Treatment. <i>Langmuir</i> , 2018, 34, 10243-10249.	1.6	29
46	A New Triazine-Based Covalent Organic Framework for High-Performance Capacitive Energy Storage. <i>ChemSusChem</i> , 2017, 10, 921-929.	3.6	132
47	Modulation of redox potentials utilizing the flexible coordination sphere of a penta-coordinate complex in the solid state. <i>Dalton Transactions</i> , 2017, 46, 3749-3754.	1.6	5
48	Double-Stranded Helical Oligomers Covalently Bridged by Rotary Cyclic Boronate Esters. <i>Chemistry - an Asian Journal</i> , 2017, 12, 927-935.	1.7	15
49	Development of a Porous Coordination Polymer with a High Gas Capacity Using a Thiophene-Based Bent Tetracarboxylate Ligand. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33455-33460.	4.0	32
50	Coupled Cluster and Density Functional Studies of Atomic Fluorine Chemisorption on Coronene as Model Systems for Graphene Fluorination. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14888-14898.	1.5	12
51	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoring-Iodine Assembly. <i>Angewandte Chemie</i> , 2017, 129, 11348-11354.	1.6	17
52	Constructing Sulfonic Acid Functionalized Anthracene Derived Conjugated Porous Organic Polymer for Efficient Metal-Free Catalytic Acetalization of Bio-Glycerol. <i>ChemistrySelect</i> , 2017, 2, 4705-4716.	0.7	15
53	Metal-Organic Cuboctahedra for Synthetic Ion Channels with Multiple Conductance States. <i>Chem</i> , 2017, 2, 393-403.	5.8	89
54	Polymorphism of [6]Cycloparaphenylene for Packing Structure-dependent Host-Guest Interaction. <i>Chemistry Letters</i> , 2017, 46, 855-857.	0.7	26

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55	Structural influence of transition metal (Sc, Y, and Lu) atoms inside gold nanoparticles. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25371.	1.0	3
56	Tuning the flexibility of interpenetrated frameworks by a small difference in the fluorene moiety. <i>Dalton Transactions</i> , 2017, 46, 15200-15203.	1.6	8
57	Structural Diversification of Light-Metal Coordination Polymers Using 4-(Methylsulfonyl)benzoate with a Charge-Polarized Neutral Methylsulfonyl Coordination Moiety. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4013-4019.	1.0	1
58	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoring-Iodine Assembly. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11196-11202.	7.2	62
59	Theoretical analysis of structural diversity of covalent organic framework: Stacking isomer structures thermodynamics and kinetics. <i>Chemical Physics Letters</i> , 2016, 664, 101-107.	1.2	13
60	Chiral-Selective Carbon Nanotube Etching with Ammonia: A Quantum Chemical Investigation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19862-19870.	1.5	7
61	Rhodium-Organic Cuboctahedra as Porous Solids with Strong Binding Sites. <i>Inorganic Chemistry</i> , 2016, 55, 10843-10846.	1.9	97
62	An Adsorbate Discriminatory Gate Effect in a Flexible Porous Coordination Polymer for Selective Adsorption of CO ₂ over C ₂ H ₂ . <i>Journal of the American Chemical Society</i> , 2016, 138, 3022-3030.	6.6	359
63	Cycloparaphenylene as a molecular porous carbon solid with uniform pores exhibiting adsorption-induced softness. <i>Chemical Science</i> , 2016, 7, 4204-4210.	3.7	52
64	High CO ₂ /CH ₄ Selectivity of a Flexible Copper(II) Porous Coordination Polymer under Humid Conditions. <i>ChemPlusChem</i> , 2015, 80, 1517-1524.	1.3	19
65	Porous coordination polymers with ubiquitous and biocompatible metals and a neutral bridging ligand. <i>Nature Communications</i> , 2015, 6, 5851.	5.8	92
66	Glass formation <i>via</i> structural fragmentation of a 2D coordination network. <i>Chemical Communications</i> , 2015, 51, 12728-12731.	2.2	36
67	Control of Molecular Rotor Rotational Frequencies in Porous Coordination Polymers Using a Solid-Solution Approach. <i>Journal of the American Chemical Society</i> , 2015, 137, 12183-12186.	6.6	78
68	A Convenient Strategy for Designing a Soft Nanospace: An Atomic Exchange in a Ligand with Isostructural Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 15825-15832.	6.6	37
69	Sequential Synthesis of Coordination Polymersomes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1139-1143.	7.2	13
70	Interaction of Various Gas Molecules with Paddle-Wheel-Type Open Metal Sites of Porous Coordination Polymers: Theoretical Investigation. <i>Inorganic Chemistry</i> , 2014, 53, 2417-2426.	1.9	21
71	Self-Accelerating CO Sorption in a Soft Nanoporous Crystal. <i>Science</i> , 2014, 343, 167-170.	6.0	434
72	DRIFT and Theoretical Studies of Ethylene/Ethane Separation on Flexible and Microporous [Cu ₂ (2,3-pyrazinedicarboxylate) ₂ (pyrazine)] _n . <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2747-2752.	1.0	28

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73	Fe ²⁺ -based layered porous coordination polymers and soft encapsulation of guests via redox activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3675.	5.2	32
74	Anion-dependent host-guest properties of porous assemblies of coordination complexes (PACs), [Cu(A) ₂ (py) ₄] (A = PF ₆ , BF ₄ , CF ₃ SO ₃ , and CH ₃ SO ₃ ; py = pyridine), based on Werner-type copper(II) complexes in the solid state. <i>Dalton Transactions</i> , 2013, 42, 11100.	1.6	21
75	Siloxane D4 capture by hydrophobic microporous materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7885.	5.2	28
76	Highly Selective CO ₂ Adsorption Accompanied with Low-Energy Regeneration in a Two-Dimensional Cu(II) Porous Coordination Polymer with Inorganic Fluorinated PF ₆ ⁻ Anions. <i>Inorganic Chemistry</i> , 2013, 52, 280-285.	1.9	67
77	Pore Design of Two-Dimensional Coordination Polymers toward Selective Adsorption. <i>Inorganic Chemistry</i> , 2013, 52, 3634-3642.	1.9	89
78	Rational Synthesis of a Porous Copper(II) Coordination Polymer Bridged by Weak Lewis-Base Inorganic Monoanions Using an Anion-Mixing Method. <i>Inorganic Chemistry</i> , 2013, 52, 5630-5632.	1.9	13
79	SOLVING THE NON-BORN-OPPENHEIMER SCHRÖDINGER EQUATION FOR THE HYDROGEN MOLECULAR ION WITH THE FREE COMPLEMENT METHOD. II. HIGHLY ACCURATE ELECTRONIC, VIBRATIONAL, AND ROTATIONAL EXCITED STATES. <i>Astrophysical Journal</i> , 2013, 770, 144.	1.6	15
80	A Switchable Molecular Rotator: Neutron Spectroscopy Study on a Polymeric Spin-Crossover Compound. <i>Journal of the American Chemical Society</i> , 2012, 134, 5083-5089.	6.6	118
81	Investigation of post-grafted groups of a porous coordination polymer and its proton conduction behavior. <i>Dalton Transactions</i> , 2012, 41, 13261.	1.6	29
82	Ligand-based solid solution approach to stabilisation of sulphonic acid groups in porous coordination polymer Zr ₆ O ₄ (OH) ₄ (BDC) ₆ (UiO-66). <i>Dalton Transactions</i> , 2012, 41, 13791.	1.6	170
83	Design of Flexible Lewis Acidic Sites in Porous Coordination Polymers by using the Viologen Moiety. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8369-8372.	7.2	74
84	Differences of crystal structure and dynamics between a soft porous nanocrystal and a bulk crystal. <i>Chemical Communications</i> , 2011, 47, 7632.	2.2	60
85	Gas detection by structural variations of fluorescent guest molecules in a flexible porous coordination polymer. <i>Nature Materials</i> , 2011, 10, 787-793.	13.3	395
86	Confinement of Mobile Histamine in Coordination Nanochannels for Fast Proton Transfer. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11706-11709.	7.2	245
87	Relationship between Channel and Sorption Properties in Coordination Polymers with Interdigitated Structures. <i>Chemistry - A European Journal</i> , 2011, 17, 5138-5144.	1.7	76
88	Selective sorption of oxygen and nitric oxide by an electron-donating flexible porous coordination polymer. <i>Nature Chemistry</i> , 2010, 2, 633-637.	6.6	306
89	Functionalization of Coordination Nanochannels for Controlling Tacticity in Radical Vinyl Polymerization. <i>Journal of the American Chemical Society</i> , 2010, 132, 4917-4924.	6.6	108
90	Solving non-Born-Oppenheimer Schrödinger equation for hydrogen molecular ion and its isotopomers using the free complement method. <i>Journal of Chemical Physics</i> , 2009, 130, 024102.	1.2	45

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91	Porous Coordination Polymer with Pyridinium Cationic Surface, [Zn ₂ (tpa) ₂ (cpb)]. Journal of the American Chemical Society, 2009, 131, 10336-10337.	6.6	112
92	Charge-Polarized Coordination Space for H ₂ Adsorption. Chemistry of Materials, 2009, 21, 1829-1833.	3.2	9
93	Solving the electron and electron-nuclear Schrödinger equations for the excited states of helium atom with the free iterative-complement-interaction method. Journal of Chemical Physics, 2008, 128, 154108.	1.2	31