

# Ming-Hsi Chiang

## List of Publications by Citations

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92  
papers

2,047  
citations

27  
h-index

41  
g-index

102  
ext. papers

2,340  
ext. citations

5.7  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
92	[Ag <sub>21</sub> {S <sub>2</sub> P(OiPr) <sub>2</sub> } <sub>12</sub> ] <sup>+</sup> : an eight-electron superatom. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3702-6	16.4	188
91	Dinitrosyl iron complexes (DNICs) [L <sub>2</sub> Fe(NO) <sub>2</sub> ]- (L = thiolate): interconversion among {Fe(NO) <sub>2</sub> } <sub>9</sub> DNICs, {Fe(NO) <sub>2</sub> } <sub>10</sub> DNICs, and [2Fe-2S] clusters, and the critical role of the thiolate ligands in regulating NO release of DNICs. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 5872-81	5.1	104
90	Chinese puzzle molecule: a 15 hydride, 28 copper atom nanoball. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7214-8	16.4	95
89	Eight-Electron Silver and Mixed Gold/Silver Nanoclusters Stabilized by Selenium Donor Ligands. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10178-10182	16.4	93
88	[Cu <sub>32</sub> (H) <sub>20</sub> {S <sub>2</sub> P(OiPr) <sub>2</sub> } <sub>12</sub> ]: The Largest Number of Hydrides Recorded in a Molecular Nanocluster by Neutron Diffraction. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8369-74	4.8	85
87	[Ag <sub>20</sub> {S <sub>2</sub> P(OR) <sub>2</sub> } <sub>12</sub> ]: A Superatom Complex with a Chiral Metallic Core and High Potential for Isomerism. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9943-7	4.8	76
86	Diselenophosphate-Induced Conversion of an Achiral [Cu <sub>20</sub> H <sub>11</sub> {S <sub>2</sub> P(OiPr) <sub>2</sub> } <sub>9</sub> ] into a Chiral [Cu <sub>20</sub> H <sub>11</sub> {Se <sub>2</sub> P(OiPr) <sub>2</sub> } <sub>9</sub> ] Polyhydrido Nanocluster. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13604-8	16.4	74
85	[Cu {S CN Bu } (acetylide) ] : A Two-Electron Superatom. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14704-14708	16.4	68
84	Redox chemistry of the Keggin heteropolyoxotungstate anion in ionic liquids. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 567, 77-84	4.1	57
83	Influence of a Redox-Active Phosphane Ligand on the Oxidations of a Diiron Core Related to the Active Site of Fe-Only Hydrogenase. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 1155-1162	2.3	39
82	Electron delocalization from the fullerene attachment to the diiron core within the active-site mimics of [FeFe]hydrogenase. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 5997-9	5.1	37
81	Stabilization of plutonium(III) in the Preyssler polyoxometalate. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 8278-85	5.1	35
80	Synthesis, structural characterization and transformation of an eight-electron superatomic alloy, [Au@Ag{SP(OPr)}]. <i>Nanoscale</i> , <b>2018</b> , 10, 6855-6860	7.7	34
79	[FeFe] hydrogenase active site modeling: a key intermediate bearing a thiolate proton and Fe hydride. <i>Chemical Communications</i> , <b>2013</b> , 49, 4743-5	5.8	34
78	Chinese Puzzle Molecule: A 15 Hydride, 28 Copper Atom Nanoball. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 7342-7346	16.4	34
77	Dinitrosyl iron complexes [E <sub>5</sub> Fe(NO) <sub>2</sub> ][E = S, Se): A precursor of Roussin's black salt [Fe <sub>4</sub> E <sub>3</sub> (NO) <sub>7</sub> ]. <i>Inorganica Chimica Acta</i> , <b>2006</b> , 359, 2525-2533	2.7	33
76	Synthesis and structural characterization of inverse-coordination clusters from a two-electron superatomic copper nanocluster. <i>Chemical Science</i> , <b>2018</b> , 9, 6785-6795	9.4	33

75	Synthesis of Two-Electron Bimetallic Cu-Ag and Cu-Au Clusters by using [Cu (S CN Bu ) (C <sup>?</sup> CPh) ] as a Template. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 500-504	4.5	32
74	Structural and spectroscopic characterization of a monomeric side-on manganese(IV) peroxo complex. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5427-30	16.4	32
73	Iron(III) bound by hydrosulfide anion ligands: NO-promoted stabilization of the [Fe(III)-SH] motif. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9424-33	16.4	30
72	Nitrate-to-nitrite-to-nitric oxide conversion modulated by nitrate-containing {Fe(NO) <sub>2</sub> } <sub>9</sub> dinitrosyl iron complex (DNIC). <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 464-73	5.1	30
71	Coordination of Actinide Ions in WellsDawson Heteropolyoxoanion Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2003</b> , 2003, 2663-2669	2.3	30
70	Eight-Electron Silver and Mixed Gold/Silver Nanoclusters Stabilized by Selenium Donor Ligands. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10312-10316	3.6	29
69	Biomimetic model featuring the NH proton and bridging hydride related to a proposed intermediate in enzymatic H <sub>2</sub> production by Fe-only hydrogenase. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 7604-12	5.1	29
68	Homodinuclear iron thiolate nitrosyl compounds [(ON)Fe(S,S-C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> Fe(NO) <sub>2</sub> ]- and [(ON)Fe(SO <sub>2</sub> ,S-C <sub>6</sub> H <sub>4</sub> )(S,S-C <sub>6</sub> H <sub>4</sub> )Fe(NO) <sub>2</sub> ]- with {Fe(NO)} <sub>7</sub> -{Fe(NO) <sub>2</sub> } <sub>9</sub> electronic coupling: new members of a class of dinitrosyl iron complexes. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 3226-32	5.1	28
67	Metal Complexes of Telluroether: Crystal Structure of (Ph <sub>2</sub> Te)Fe(CO) <sub>3</sub> I <sub>2</sub> and (Ph <sub>2</sub> Te)W(CO) <sub>5</sub> . <i>Inorganic Chemistry</i> , <b>1994</b> , 33, 2493-2494	5.1	28
66	New members of a class of dinitrosyliron complexes (DNICs): the characteristic EPR signal of the six-coordinate and five-coordinate {Fe(NO) <sub>2</sub> } <sub>9</sub> DNICs. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 113, 83-93 <sup>4.2</sup>	4.2	27
65	[Cu <sub>13</sub> {S <sub>2</sub> CNnBu <sub>2</sub> } <sub>6</sub> (acetylide) <sub>4</sub> ] <sup>+</sup> : A Two-Electron Superatom. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14924-14928	3.8	26
64	Redox Chemistry of Actinide Ions in WellsDawson Heteropolyoxoanion Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2003</b> , 2003, 2929-2936	2.3	24
63	fac-Bis(triphenylphosphine)nitrogen(+) tricarbonyltris(benzenetellurolato)ferrate: oxidative addition of (PhTe) <sub>2</sub> to [PPN][PhTeFe(CO) <sub>4</sub> ]. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 1536-1538	5.1	24
62	Experimental study of neptunyl adsorption onto Bacillus subtilis. <i>Geochimica Et Cosmochimica Acta</i> , <b>2005</b> , 69, 4837-4844	5.5	23
61	Heteroatom-Doping Increases Cluster Nuclearity: From an [Ag ] to an [Au Ag ] Core. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 14352-14357	4.8	23
60	A unique coordination environment for an ion: EXAFS studies and bond valence model approach of the encapsulated cation in the Preyssler anion. <i>Dalton Transactions</i> , <b>2004</b> , 801-6	4.3	22
59	NO-to-[NO]-to-NO Conversion Triggered by {Fe(NO)} <sub>2</sub> -{Fe(NO)} <sub>2</sub> Dinuclear Dinitrosyl Iron Complex. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 9586-9591	5.1	21
58	Energetics of the Preyssler anion's molecular orbitals: quantifying the effect of the encapsulated-cation's charge. <i>Dalton Transactions</i> , <b>2004</b> , 3562-7	4.3	21

57	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4943-4947	16.4	20
56	Self-assembly and redox modulation of the cavity size of an unusual rectangular iron thiolate aryldiisocyanide metallocyclophane. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 10825-34	5.1	20
55	Synthesis, characterization and structural transformation of a discrete tetragonal metallopriam. <i>Dalton Transactions</i> , <b>2012</b> , 41, 156-64	4.3	18
54	Influences on the rotated structure of diiron dithiolate complexes: electronic asymmetry vs. secondary coordination sphere interaction. <i>Dalton Transactions</i> , <b>2011</b> , 40, 2528-41	4.3	18
53	Mono- and hexa-palladium doped silver nanoclusters stabilized by dithiolates. <i>Nanoscale</i> , <b>2019</b> , 11, 14581-14586	14.581	14586
52	Synthesis and characterization of the diiron biomimics bearing phosphine borane for hydrogen formation. <i>Polyhedron</i> , <b>2013</b> , 64, 247-254	2.7	17
51	Secondary coordination sphere interactions within the biomimetic iron azadithiolate complexes related to Fe-only hydrogenase: dynamic measure of electron density about the Fe sites. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 6409-20	5.1	16
50	Protonation/Reduction of Carbonyl-Rich Diiron Complexes and the Direct Observation of Triprotonated Species: Insights into the Electrocatalytic Mechanism of Hydrogen Formation. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2559-2576	13.1	16
49	Photoinduced NO and HNO Production from Mononuclear {FeNO} Complex Bearing a Pendant Thiol. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 8649-8661	16.4	15
48	Utilization of Non-Innocent Redox Ligands in [FeFe] Hydrogenase Modeling for Hydrogen Production. <i>Comments on Inorganic Chemistry</i> , <b>2016</b> , 36, 141-181	3.9	15
47	In situ measurement of the Preyssler polyoxometalate morphology upon electrochemical reduction: A redox system with Born electrostatic ion solvation behavior. <i>Journal of Electroanalytical Chemistry</i> , <b>2009</b> , 626, 103-110	4.1	15
46	Self-triggered conformations of disulfide ensembles in coordination polymers with multiple metal clusters. <i>CrystEngComm</i> , <b>2015</b> , 17, 2847-2856	3.3	14
45	Identification of an Eight-Electron Superatomic Cluster and Its Alloy in One Co-crystal Structure. <i>Journal of Cluster Science</i> , <b>2018</b> , 29, 827-835	3	14
44	Stepwise synthesis of the heterotrimetallic chains [MRu(dpa)X] using group 7 to group 12 transition metal ions and [Ru(dpa)Cl]. <i>Dalton Transactions</i> , <b>2018</b> , 47, 1422-1434	4.3	14
43	Concomitant Crystallization of Genuine Supramolecular Isomeric Rhombus Grid and Ribbon. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 4321-4328	3.5	14
42	Hydro(solvo)thermal synthesis of homochiral metal-amphiphilic coordination polymers. <i>CrystEngComm</i> , <b>2010</b> , 12, 3909	3.3	13
41	Electron Delocalization of Mixed-Valence Diiron Sites Mediated by Group 10 Metal Ions in Heterotrimetallic Fe-M-Fe (M=Ni, Pd, and Pt) Chain Complexes. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 11649-11666	4.8	12
40	Generation of a Mn(IV)-Peroxo or Mn(III)-Oxo-Mn(III) Species upon Oxygenation of Mono- and Binuclear Thiolate-Ligated Mn(II) Complexes. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 10559-10569	5.1	12

39	Anion-Directed Copper(II) Metallocages, Coordination Chain, and Complex Double Salt: Structures, Magnetic Properties, EPR Spectra, and Density Functional Study. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 7238-47	4.8	12
38	Highly hydrophobic metal-organic framework for self-protecting gate dielectrics. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11958-11965	13	11
37	Self-adaptation of manganese-chloride arrangement toward high spin Mn5(μCl)4 cluster-based metal-organic framework with S = 15/2. <i>Dalton Transactions</i> , <b>2012</b> , 41, 1448-50	4.3	11
36	Oxidative Addition vs. Ligand-Exchange: Fe(II)-Mixed-Phenylchalcogenolate Complexes fac-[PPN][Fe(CO)3(TePh)n(SePh)3-N] (n = 1, 2). <i>Journal of the Chinese Chemical Society</i> , <b>1993</b> , 40, 437-444	1.5	11
35	Organocatalytic enantioselective Michael reaction of 1,3-dicarbonyls with substituted Nitroacrylates. <i>Tetrahedron</i> , <b>2017</b> , 73, 727-734	2.4	10
34	Infinite copper(II) coordination architectures from a resonative aminotriazine-derived tripodal ligand: synthesis, structures, and magnetic properties. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 12360-71	5.1	10
33	Vibrational characterization of a diiron bridging hydride complex - a model for hydrogen catalysis. <i>Chemical Science</i> , <b>2020</b> , 11, 5487-5493	9.4	9
32	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4997-5001	3.6	9
31	A reversible proton relay process mediated by hydrogen-bonding interactions in [FeFe]hydrogenase modeling. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 10978-82	4.8	8
30	Reduced thione ligation is preferred over neutral phosphine ligation in diiron biomimics regarding electronic functionality: a spectroscopic and computational investigation. <i>Chemical Communications</i> , <b>2016</b> , 53, 332-335	5.8	6
29	Polymerization of Columnar Mesogens Tethered with Diacetylenic Side Chains. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 248-255	4.3	6
28	Asymmetric tetranuclear nickel chains with unidirectionally ordered 2-(5-phenyl)pyridylamino)-1,8-naphthyridine ligands. <i>Dalton Transactions</i> , <b>2016</b> , 45, 17281-17289	4.3	6
27	A Mn(IV)-peroxo complex in the reactions with proton donors. <i>Dalton Transactions</i> , <b>2019</b> , 48, 5203-5213	4.3	5
26	Bilayer Vesicles as a Noncovalent Immobilization Platform of Electrocatalysts for Energy Conversion in Neutral Aqueous Media. <i>ChemElectroChem</i> , <b>2018</b> , 5, 20-24	4.3	5
25	Redox communication within multinuclear iron-sulfur complexes related to electronic interplay in the active site of [FeFe]hydrogenase. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 6852-61	4.8	5
24	Synthesis and Luminescence Properties of Two-Electron Bimetallic Cu-Ag and Cu-Au Nanoclusters via Copper Hydride Precursors. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 10799-10807	5.1	5
23	Anion-Directed Metallocages: A Study on the Tendency of Anion Templatation. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15957-15965	4.8	4
22	Structures and paramagnetism of five heterometallic pentanuclear metal strings containing as many as four different metals: NiPtCoPd(tpda)Cl. <i>Dalton Transactions</i> , <b>2020</b> , 49, 7299-7303	4.3	4

21	Monodispersity of magnetic immuno-nanoprobes enhances the detection sensitivity of low abundance biomarkers in one drop of serum. <i>Analyst, The</i> , <b>2015</b> , 140, 7678-86	5	3
20	Structural diversity in polymeric and discrete complexes constructed by divalent transition metals and unsymmetrical quasi semirigid pyridinecarboxylate isomers. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 277, 701-712	3.3	3
19	Structural and Spectroscopic Characterization of a Monomeric Side-On Manganese(IV) Peroxo Complex. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 5523-5526	3.6	3
18	Improved Oxygen Redox Activity by High-Valent Fe and Co <sup>3+</sup> Sites in the Perovskite LaNi <sub>1-x</sub> Fe <sub>0.5x</sub> Co <sub>0.5x</sub> O <sub>3</sub> . <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 343-354	6.1	3
17	Dioxygen activation by a dinuclear thiolate-ligated Fe(II) complex. <i>Dalton Transactions</i> , <b>2019</b> , 48, 379-386	4.3	2
16	Diindeno-Fused Dibenzo[a,h]anthracene and Dibenzo[c,l]chrysene: Syntheses, Structural Analyses, and Properties. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 7280-7284	4.8	2
15	Synthesis, crystal structure, and magnetic properties of a two-fold interpenetrated diamondoid open framework. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 242, 8-13	3.3	2
14	Adaptation of guest molecules: A simple system that amplifies the gentle perturbation of host lattices from nickel(II) to cobalt(II). <i>Inorganica Chimica Acta</i> , <b>2016</b> , 445, 96-102	2.7	2
13	Energy-Efficient Hydrogen Evolution by Fe-S Electrocatalysts: Mechanistic Investigations. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 7620-7630	5.1	2
12	Design of a Metal-Organic Framework-Derived Co <sub>9</sub> S <sub>8</sub> /S Material for Achieving High Durability and High Performance of Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , <b>2021</b> , 8, 3040-3048	4.3	2
11	A Mononuclear Iron(II) Bis(guanidinate) Complex: Synthesis, Structure, and Reactivity. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 98-109	2.3	2
10	A new series of heteronuclear metal strings, MRhRh(dpa)Cl and MRhRhM(dpa)X, from the reactions of Rh(dpa) with metal ions of group 7 to group 12. <i>Dalton Transactions</i> , <b>2021</b> , 50, 520-534	4.3	2
9	Diindeno[2,1-2',1'-]biphenylenes: Syntheses, Structural Analyses, and Properties. <i>Organic Letters</i> , <b>2021</b> , 23, 8794-8798	6.2	1
8	High-Frequency Fe-H and Fe-H Modes in a -Fe(H)(H) Complex: A Speed Record for Nuclear Resonance Vibrational Spectroscopy. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 555-559	5.1	1
7	Organocatalytic asymmetric allylic alkylation of 2-methyl-3-nitroindoles: a route to direct enantioselective functionalization of indole C(sp)-H bonds. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 1503-1507	3.9	1
6	Water-assisted spin-flop antiferromagnetic behaviour of hydrophobic Cu-based metal-organic frameworks. <i>Dalton Transactions</i> , <b>2021</b> , 50, 5754-5758	4.3	1
5	Discrete Metal-Oxide Clusters with Organofunctionalization as High-Performance Anode Materials. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 643-654	6.1	0
4	Helical Homometallic Trinickel String Complexes with Mixed Hard Nitrogen and Sulfur Donors: Structural and Magnetic Studies. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 2092-2099	5.1	0

- 3 Titelbild: Chinese Puzzle Molecule: A 15 Hydride, 28 Copper Atom Nanoball (Angew. Chem. 28/2014). *Angewandte Chemie*, **2014**, 126, 7217-7217 3.6
- 2 In Situ Actinide X-ray Absorption Spectroelectrochemistry. *Materials Research Society Symposia Proceedings*, **2003**, 802, 146
- 1 Changing Np Redox Speciation in the Synchrotron Beam. *Materials Research Society Symposia Proceedings*, **2003**, 802, 140