

Ming-Hsi Chiang

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.

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	Improved Oxygen Redox Activity by High-Valent Fe and Co ³⁺ Sites in the Perovskite LaNi _{1-x} Fe _{0.5x} Co _{0.5x} O ₃ . <i>ACS Applied Energy Materials</i> , 2022 , 5, 343-354	6.1	3
91	Diindeno[2,1-:2',1'-]biphenylenes: Syntheses, Structural Analyses, and Properties. <i>Organic Letters</i> , 2021 , 23, 8794-8798	6.2	1
90	High-Frequency Fe-H and Fe-H Modes in a -Fe(II)(H) Complex: A Speed Record for Nuclear Resonance Vibrational Spectroscopy. <i>Inorganic Chemistry</i> , 2021 , 60, 555-559	5.1	1
89	Design of a Metal-Organic Framework-Derived Co ₉ S ₈ /S Material for Achieving High Durability and High Performance of Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2021 , 8, 3040-3048	4.3	2
88	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> , 2021 , 50, 520-534	4.3	2
87	Organocatalytic asymmetric allylic alkylation of 2-methyl-3-nitroindoles: a route to direct enantioselective functionalization of indole C(sp ³)-H bonds. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 1503-1507	3.9	1
86	Discrete Metal-Oxide Clusters with Organofunctionalization as High-Performance Anode Materials. <i>ACS Applied Energy Materials</i> , 2021 , 4, 643-654	6.1	0
85	Synthesis and Luminescence Properties of Two-Electron Bimetallic Cu-Ag and Cu-Au Nanoclusters via Copper Hydride Precursors. <i>Inorganic Chemistry</i> , 2021 , 60, 10799-10807	5.1	5
84	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> , 2021 , 94, 2092-2099	5.1	0
83	Water-assisted spin-flop antiferromagnetic behaviour of hydrophobic Cu-based metal-organic frameworks. <i>Dalton Transactions</i> , 2021 , 50, 5754-5758	4.3	1
82	Vibrational characterization of a diiron bridging hydride complex - a model for hydrogen catalysis. <i>Chemical Science</i> , 2020 , 11, 5487-5493	9.4	9
81	Photoinduced NO and HNO Production from Mononuclear {FeNO} Complex Bearing a Pendant Thiol. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8649-8661	16.4	15
80	Highly hydrophobic metal-organic framework for self-protecting gate dielectrics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11958-11965	13	11
79	Structures and paramagnetism of five heterometallic pentanuclear metal strings containing as many as four different metals: NiPtCoPd(tpda)Cl. <i>Dalton Transactions</i> , 2020 , 49, 7299-7303	4.3	4
78	Polymerization of Columnar Mesogens Tethered with Diacetylenic Side Chains. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 248-255	4.3	6
77	Dioxygen activation by a dinuclear thiolate-ligated Fe(II) complex. <i>Dalton Transactions</i> , 2019 , 48, 379-386	4.3	2
76	A Mn(IV)-peroxo complex in the reactions with proton donors. <i>Dalton Transactions</i> , 2019 , 48, 5203-5213	4.3	5

75	Diindeno-Fused Dibenzo[a,h]anthracene and Dibenzo[c,l]chrysene: Syntheses, Structural Analyses, and Properties. <i>Chemistry - A European Journal</i> , 2019 , 25, 7280-7284	4.8	2
74	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4943-4947	16.4	20
73	NO-to-[NO]-to-NO Conversion Triggered by {Fe(NO)}-2{Fe(NO)} Dinuclear Dinitrosyl Iron Complex. <i>Inorganic Chemistry</i> , 2019 , 58, 9586-9591	5.1	21
72	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> , 2019 , 277, 701-712	3.3	3
71	Mono- and hexa-palladium doped silver nanoclusters stabilized by dithiolates. <i>Nanoscale</i> , 2019 , 11, 14581-14586	14.581	14586
70	Synthesis of Bimetallic Copper-Rich Nanoclusters Encapsulating a Linear Palladium Dihydride Unit. <i>Angewandte Chemie</i> , 2019 , 131, 4997-5001	3.6	9
69	A Mononuclear Iron(II) Bis(guanidinate) Complex: Synthesis, Structure, and Reactivity. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 98-109	2.3	2
68	Identification of an Eight-Electron Superatomic Cluster and Its Alloy in One Co-crystal Structure. <i>Journal of Cluster Science</i> , 2018 , 29, 827-835	3	14
67	Synthesis of Two-Electron Bimetallic Cu-Ag and Cu-Au Clusters by using [Cu (S CN Bu) (C?CPh)] as a Template. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 500-504	4.5	32
66	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> , 2018 , 47, 1422-1434	4.3	14
65	Synthesis, structural characterization and transformation of an eight-electron superatomic alloy, [Au@Ag{SP(OPr)}]. <i>Nanoscale</i> , 2018 , 10, 6855-6860	7.7	34
64	Bilayer Vesicles as a Noncovalent Immobilization Platform of Electrocatalysts for Energy Conversion in Neutral Aqueous Media. <i>ChemElectroChem</i> , 2018 , 5, 20-24	4.3	5
63	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> , 2018 , 24, 11649-11666	4.8	12
62	Energy-Efficient Hydrogen Evolution by Fe-S Electrocatalysts: Mechanistic Investigations. <i>Inorganic Chemistry</i> , 2018 , 57, 7620-7630	5.1	2
61	Synthesis and structural characterization of inverse-coordination clusters from a two-electron superatomic copper nanocluster. <i>Chemical Science</i> , 2018 , 9, 6785-6795	9.4	33
60	Heteroatom-Doping Increases Cluster Nuclearity: From an [Ag] to an [Au Ag] Core. <i>Chemistry - A European Journal</i> , 2018 , 24, 14352-14357	4.8	23
59	Eight-Electron Silver and Mixed Gold/Silver Nanoclusters Stabilized by Selenium Donor Ligands. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10178-10182	16.4	93
58	Organocatalytic enantioselective Michael reaction of 1,3-dicarbonyls with β -substituted Nitroacrylates. <i>Tetrahedron</i> , 2017 , 73, 727-734	2.4	10

57	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> , 2017 , 56, 10559-10569	5.1	12
56	Anion-Directed Metallocages: A Study on the Tendency of Anion Templatation. <i>Chemistry - A European Journal</i> , 2017 , 23, 15957-15965	4.8	4
55	Eight-Electron Silver and Mixed Gold/Silver Nanoclusters Stabilized by Selenium Donor Ligands. <i>Angewandte Chemie</i> , 2017 , 129, 10312-10316	3.6	29
54	Reduced thione ligation is preferred over neutral phosphine ligation in diiron biomimics regarding electronic functionality: a spectroscopic and computational investigation. <i>Chemical Communications</i> , 2016 , 53, 332-335	5.8	6
53	Synthesis, crystal structure, and magnetic properties of a two-fold interpenetrated diamondoid open framework. <i>Journal of Solid State Chemistry</i> , 2016 , 242, 8-13	3.3	2
52	[Cu {S CN Bu } (acetylide)] : A Two-Electron Superatom. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14704-14708	16.4	68
51	[Cu ₁₃ {S ₂ CNnBu ₂ } ₆ (acetylide) ₄] ⁺ : A Two-Electron Superatom. <i>Angewandte Chemie</i> , 2016 , 128, 14924-14928	13.28	26
50	[Ag ₂₀ {S ₂ P(OR) ₂ } ₁₂]: A Superatom Complex with a Chiral Metallic Core and High Potential for Isomerism. <i>Chemistry - A European Journal</i> , 2016 , 22, 9943-7	4.8	76
49	Utilization of Non-Innocent Redox Ligands in [FeFe] Hydrogenase Modeling for Hydrogen Production. <i>Comments on Inorganic Chemistry</i> , 2016 , 36, 141-181	3.9	15
48	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> , 2016 , 445, 96-102	2.7	2
47	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> , 2016 , 22, 7238-47	4.8	12
46	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> , 2016 , 6, 2559-2576	13.1	16
45	Asymmetric tetranuclear nickel chains with unidirectionally ordered 2-(π (5-phenyl)pyridylamino)-1,8-naphthyridine ligands. <i>Dalton Transactions</i> , 2016 , 45, 17281-17289	4.3	6
44	[Cu ₃₂ (H) ₂₀ {S ₂ P(OiPr) ₂ } ₁₂]: The Largest Number of Hydrides Recorded in a Molecular Nanocluster by Neutron Diffraction. <i>Chemistry - A European Journal</i> , 2015 , 21, 8369-74	4.8	85
43	Self-triggered conformations of disulfide ensembles in coordination polymers with multiple metal clusters. <i>CrystEngComm</i> , 2015 , 17, 2847-2856	3.3	14
42	Monodispersity of magnetic immuno-nanoprobes enhances the detection sensitivity of low abundance biomarkers in one drop of serum. <i>Analyst, The</i> , 2015 , 140, 7678-86	5	3
41	Diselenophosphate-Induced Conversion of an Achiral [Cu ₂₀ H ₁₁ {S ₂ P(OiPr) ₂ } ₉] into a Chiral [Cu ₂₀ H ₁₁ {Se ₂ P(OiPr) ₂ } ₉] Polyhydrido Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13604-8	16.4	74
40	Redox communication within multinuclear iron-sulfur complexes related to electronic interplay in the active site of [FeFe]hydrogenase. <i>Chemistry - A European Journal</i> , 2015 , 21, 6852-61	4.8	5

39	A reversible proton relay process mediated by hydrogen-bonding interactions in [FeFe]hydrogenase modeling. <i>Chemistry - A European Journal</i> , 2015 , 21, 10978-82	4.8	8
38	[Ag ₂₁ {S ₂ P(OiPr) ₂ } ₁₂] ⁺ : an eight-electron superatom. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3702-6	16.4	188
37	Titelbild: Chinese Puzzle Molecule: A 15 Hydride, 28 Copper Atom Nanoball (Angew. Chem. 28/2014). <i>Angewandte Chemie</i> , 2014 , 126, 7217-7217	3.6	
36	Iron(III) bound by hydrosulfide anion ligands: NO-promoted stabilization of the [Fe(III)-SH] motif. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9424-33	16.4	30
35	Concomitant Crystallization of Genuine Supramolecular Isomeric Rhombus Grid and Ribbon. <i>Crystal Growth and Design</i> , 2014 , 14, 4321-4328	3.5	14
34	Chinese Puzzle Molecule: A 15 Hydride, 28 Copper Atom Nanoball. <i>Angewandte Chemie</i> , 2014 , 126, 7342-7346	3.6	34
33	Chinese puzzle molecule: a 15 hydride, 28 copper atom nanoball. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7214-8	16.4	95
32	[FeFe] hydrogenase active site modeling: a key intermediate bearing a thiolate proton and Fe hydride. <i>Chemical Communications</i> , 2013 , 49, 4743-5	5.8	34
31	Synthesis and characterization of the diiron biomimics bearing phosphine borane for hydrogen formation. <i>Polyhedron</i> , 2013 , 64, 247-254	2.7	17
30	Nitrate-to-nitrite-to-nitric oxide conversion modulated by nitrate-containing {Fe(NO) ₂ } ₉ dinitrosyl iron complex (DNIC). <i>Inorganic Chemistry</i> , 2013 , 52, 464-73	5.1	30
29	Infinite copper(II) coordination architectures from a resonative aminotriazine-derived tripodal ligand: synthesis, structures, and magnetic properties. <i>Inorganic Chemistry</i> , 2012 , 51, 12360-71	5.1	10
28	Self-adaptation of manganese-chloride arrangement toward high spin Mn ₅ (ECl) ₄ cluster-based metal-organic framework with S = 15/2. <i>Dalton Transactions</i> , 2012 , 41, 1448-50	4.3	11
27	Electron delocalization from the fullerene attachment to the diiron core within the active-site mimics of [FeFe]hydrogenase. <i>Inorganic Chemistry</i> , 2012 , 51, 5997-9	5.1	37
26	New members of a class of dinitrosyliron complexes (DNICs): the characteristic EPR signal of the six-coordinate and five-coordinate {Fe(NO) ₂ } ₉ DNICs. <i>Journal of Inorganic Biochemistry</i> , 2012 , 113, 83-93	4.2	27
25	Synthesis, characterization and structural transformation of a discrete tetragonal metallopriam. <i>Dalton Transactions</i> , 2012 , 41, 156-64	4.3	18
24	Structural and Spectroscopic Characterization of a Monomeric Side-On Manganese(IV) Peroxo Complex. <i>Angewandte Chemie</i> , 2012 , 124, 5523-5526	3.6	3
23	Structural and spectroscopic characterization of a monomeric side-on manganese(IV) peroxo complex. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5427-30	16.4	32
22	Self-assembly and redox modulation of the cavity size of an unusual rectangular iron thiolate arylideneisocyanide metallocyclophane. <i>Inorganic Chemistry</i> , 2011 , 50, 10825-34	5.1	20

21	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> , 2011 , 2011, 1155-1162	2-3	39
20	Influences on the rotated structure of diiron dithiolate complexes: electronic asymmetry vs. secondary coordination sphere interaction. <i>Dalton Transactions</i> , 2011 , 40, 2528-41	4-3	18
19	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> , 2010 , 49, 6409-20	5-1	16
18	Hydro(solvo)thermal synthesis of homochiral metal-amphorate coordination polymers. <i>CrystEngComm</i> , 2010 , 12, 3909	3-3	13
17	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> , 2009 , 626, 103-110	4-1	15
16	Biomimetic model featuring the NH proton and bridging hydride related to a proposed intermediate in enzymatic H ₂ production by Fe-only hydrogenase. <i>Inorganic Chemistry</i> , 2009 , 48, 7604-7612	5-1	29
15	Stabilization of plutonium(III) in the Preyssler polyoxometalate. <i>Inorganic Chemistry</i> , 2008 , 47, 8278-85	5-1	35
14	Dinitrosyl iron complexes [E ₅ Fe(NO) ₂][E = S, Se]: A precursor of Roussin's black salt [Fe ₄ E ₃ (NO) ₇]. <i>Inorganica Chimica Acta</i> , 2006 , 359, 2525-2533	2-7	33
13	Dinitrosyl iron complexes (DNICs) [L ₂ Fe(NO) ₂]- (L = thiolate): interconversion among {Fe(NO) ₂ } ₉ DNICs, {Fe(NO) ₂ } ₁₀ DNICs, and [2Fe-2S] clusters, and the critical role of the thiolate ligands in regulating NO release of DNICs. <i>Inorganic Chemistry</i> , 2005 , 44, 5872-81	5-1	104
12	Homodinuclear iron thiolate nitrosyl compounds [(ON)Fe(S,S-C ₆ H ₄) ₂ Fe(NO) ₂]- and [(ON)Fe(SO ₂ ,S-C ₆ H ₄)(S,S-C ₆ H ₄)Fe(NO) ₂]- with {Fe(NO)} ₇ -{Fe(NO) ₂ } ₉ electronic coupling: new members of a class of dinitrosyl iron complexes. <i>Inorganic Chemistry</i> , 2005 , 44, 3226-32	5-1	28
11	Experimental study of neptunyl adsorption onto <i>Bacillus subtilis</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4837-4844	5-5	23
10	Redox chemistry of the Keggin heteropolyoxotungstate anion in ionic liquids. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 567, 77-84	4-1	57
9	Energetics of the Preyssler anion's molecular orbitals: quantifying the effect of the encapsulated-cation's charge. <i>Dalton Transactions</i> , 2004 , 3562-7	4-3	21
8	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> , 2004 , 801-6	4-3	22
7	In Situ Actinide X-ray Absorption Spectroelectrochemistry. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 802, 146		
6	Coordination of Actinide Ions in Wells-Dawson Heteropolyoxoanion Complexes. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 2663-2669	2-3	30
5	Redox Chemistry of Actinide Ions in Wells-Dawson Heteropolyoxoanion Complexes. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 2929-2936	2-3	24
4	Changing Np Redox Speciation in the Synchrotron Beam. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 802, 140		

- 3 Metal Complexes of Telluroether: Crystal Structure of $(\text{Ph}_2\text{Te})\text{Fe}(\text{CO})_3\text{I}_2$ and $(\text{Ph}_2\text{Te})\text{W}(\text{CO})_5$.
Inorganic Chemistry, **1994**, 33, 2493-2494 5.1 28
- 2 fac-Bis(triphenylphosphine)nitrogen(+) tricarbonyltris(benzenetelluroolato)ferrate: oxidative
addition of $(\text{PhTe})_2$ to $[\text{PPN}][\text{PhTeFe}(\text{CO})_4]$. *Inorganic Chemistry*, **1993**, 32, 1536-1538 5.1 24
- 1 Oxidative Addition vs. Ligand-Exchange: Fe(II)-Mixed-Phenylchalcogenolate Complexes
fac- $[\text{PPN}][\text{Fe}(\text{CO})_3(\text{TePh})_n(\text{SePh})_{3-n}]$ ($n = 1, 2$). *Journal of the Chinese Chemical Society*, **1993**, 40, 437-444^{1.5} 11