Wen-Feng Liaw

List of Publications by Year
in descending order

66 papers	2,430 citations	147801 31 h-index	206112 48 g-index
69 all docs	69 docs citations	69 times ranked	1544 citing authors

#	Article	IF	Citations
1	Semiconducting Paddle-Wheel Metalâ€"Organic Complex with a Compact Cuâ€"S Cage. Journal of Physical Chemistry C, 2022, 126, 6300-6307.	3.1	0
2	Morphological and Electronic Optimization of Nanostructured FeCoNi-Based Electrocatalysts by Al Dopants for Neutral/Alkaline Water Splitting. ACS Applied Energy Materials, 2022, 5, 5886-5900.	5.1	4
3	Insight into the Electronic Structure of Biomimetic Dinitrosyliron Complexes (DNICs): Toward the Syntheses of Amido-Bridging Dinuclear DNICs. Inorganic Chemistry, 2021, 60, 15846-15873.	4.0	10
4	NO Reduction to N₂O Triggered by a Dinuclear Dinitrosyl Iron Complex via the Associated Pathways of Hyponitrite Formation and NO Disproportionation. Inorganic Chemistry, 2021, 60, 15874-15889.	4.0	10
5	Nitrosylation of the Diiron Core Mediated by the N Domain of YtfE. Journal of Physical Chemistry Letters, 2020, 11, 8538-8542.	4.6	6
6	Nitric oxide reduction forming hyponitrite triggered by metalâ€containing complexes. Journal of the Chinese Chemical Society, 2020, 67, 206-212.	1.4	5
7	Dinitrosyl Iron Complex [Kâ€18â€crownâ€6â€ether][(NO)₂Fe(^{Me}PyrCO₂)]: Intermediate for Capture and Reduction of Carbon Dioxide. Angewandte Chemie - International Edition, 2020, 59, 11819-11823.	13.8	16
8	Dinitrosyl Iron Complex [Kâ€18â€crownâ€6â€ether][(NO)₂Fe(^{Me}PyrCO₂)]: Intermediate for Capture and Reduction of Carbon Dioxide. Angewandte Chemie, 2020, 132, 11917-11921.	2.0	4
9	The HER/OER mechanistic study of an FeCoNi-based electrocatalyst for alkaline water splitting. Journal of Materials Chemistry A, 2020, 8, 9939-9950.	10.3	162
10	Dinitrosyliron Complex [(PMDTA)Fe(NO)₂]: Intermediate for Nitric Oxide Monooxygenation Activity in Nonheme Iron Complex. Inorganic Chemistry, 2020, 59, 8308-8319.	4.0	6
11	Activation of Angiogenesis and Wound Healing in Diabetic Mice Using NO-Delivery Dinitrosyl Iron Complexes. Molecular Pharmaceutics, 2019, 16, 4241-4251.	4.6	34
12	NO-to-[N₂O₂]^{2â€"}-to-N₂O Conversion Triggered by {Fe(NO)₂}¹⁰-{Fe(NO)₂}⁹ Dinuclear Dinitrosyl Iron Complex. Inorganic Chemistry, 2019, 58, 9586-9591.	4.0	27
13	An organic ligand promoting the electrocatalytic activity of cobalt oxide for the hydrogen evolution reaction. Sustainable Energy and Fuels, 2019, 3, 2205-2210.	4.9	7
14	Dinitrosyl iron complexes: From molecular electrocatalysts to electrodepositedâ€film electrodes for hydrogen evolution reaction. Journal of the Chinese Chemical Society, 2019, 66, 1186-1194.	1.4	3
15	Insight into chalcogenolate-bound {Fe(NO)₂}⁹dinitrosyl iron complexes (DNICs): covalent character<i>versus</i>ionic character. Dalton Transactions, 2019, 48, 6040-6050.	3.3	16
16	Electrodeposited-film electrodes derived from a precursor dinitrosyl iron complex for electrocatalytic water splitting. Dalton Transactions, 2018, 47, 7128-7134.	3.3	10
17	Electrocatalytic Water Reduction Beginning with a {Fe(NO)₂}¹⁰-Reduced Dinitrosyliron Complex: Identification of Nitrogen-Doped FeO_{<i>x</i>}(OH)_{<i>y</i>} as a Real Heterogeneous Catalyst. Inorganic Chemistry, 2018, 57, 14715-14726.	4.0	11
18	Bioinorganic Chemistry of the Natural [Fe(NO)₂] Motif: Evolution of a Functional Model for NO-Related Biomedical Application and Revolutionary Development of a Translational Model. Inorganic Chemistry, 2018, 57, 12425-12443.	4.0	46

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19	In Vitro and in Vivo Imaging of Nitroxyl with Copper Fluorescent Probe in Living Cells and Zebrafish. Molecules, 2018, 23, 2551.	3.8	13
20	Extension of C. elegans lifespan using the Â·NO-delivery dinitrosyl iron complexes. Journal of Biological Inorganic Chemistry, 2018, 23, 775-784.	2.6	17
21	{Fe(NO)₂}⁹ Dinitrosyl Iron Complex Acting as a Vehicle for the NO Radical. Journal of the American Chemical Society, 2017, 139, 67-70.	13.7	23
22	Reduced thione ligation is preferred over neutral phosphine ligation in diiron biomimics regarding electronic functionality: a spectroscopic and computational investigation. Chemical Communications, 2017, 53, 332-335.	4.1	8
23	Crystal Structure Analysis of the Repair of Iron Centers Protein YtfE and Its Interaction with NO. Chemistry - A European Journal, 2016, 22, 9768-9776.	3.3	28
24	Conversion of Nitric Oxide into Nitrous Oxide as Triggered by the Polarization of Coordinated NO by Hydrogen Bonding. Angewandte Chemie - International Edition, 2016, 55, 5190-5194.	13.8	30
25	A Structurally Characterized Nonheme Cobaltâ€“Hydroperoxo Complex Derived from Its Superoxo Intermediate via Hydrogen Atom Abstraction. Journal of the American Chemical Society, 2016, 138, 14186-14189.	13.7	69
26	Water-Soluble Dinitrosyl Iron Complex (DNIC): a Nitric Oxide Vehicle Triggering Cancer Cell Death via Apoptosis. Inorganic Chemistry, 2016, 55, 9383-9392.	4.0	52
27	Conversion of Nitric Oxide into Nitrous Oxide as Triggered by the Polarization of Coordinated NO by Hydrogen Bonding. Angewandte Chemie, 2016, 128, 5276-5280.	2.0	4
28	[Ni^{III}(OMe)]-mediated reductive activation of CO₂ affording a Ni(Îº¹-OCO) complex. Chemical Science, 2016, 7, 3640-3644.	7.4	20
29	Chelate-Thiolate-Coordinate Ligands Modulating the Configuration and Electrochemical Property of Dinitrosyliron Complexes (DNICs). Chemistry - A European Journal, 2015, 21, 16035-16046.	3.3	16
30	Ambient Stable Trigonal Bipyramidal Copper(III) Complexes Equipped with an Exchangeable Axial Ligand. Inorganic Chemistry, 2015, 54, 5527-5533.	4.0	15
31	Dinitrosyl Iron Complexes (DNICs): From Biomimetic Synthesis and Spectroscopic Characterization toward Unveiling the Biological and Catalytic Roles of DNICs. Accounts of Chemical Research, 2015, 48, 1184-1193.	15.6	105
32	Development of a Dinitrosyl Iron Complex Molecular Catalyst into a Hydrogen Evolution Cathode. Angewandte Chemie - International Edition, 2015, 54, 14824-14829.	13.8	32
33	Insight into the Reactivity and Electronic Structure of Dinuclear Dinitrosyl Iron Complexes. Inorganic Chemistry, 2014, 53, 10881-10892.	4.0	14
34	Iron(III) Bound by Hydrosulfide Anion Ligands: NO-Promoted Stabilization of the [FeIIIâ€“SH] Motif. Journal of the American Chemical Society, 2014, 136, 9424-9433.	13.7	34
35	Xâ€Ray Emission Spectroscopy: A Spectroscopic Measure for the Determination of NO Oxidation States in Feâ€“NO Complexes. Angewandte Chemie - International Edition, 2014, 53, 11562-11566.	13.8	33
36	A <i>N</i>-(2-Aminophenyl)-5-(dimethylamino)-1-naphthalenesulfonic Amide (Ds-DAB) Based Fluorescent Chemosensor for Peroxynitrite. Organic Letters, 2013, 15, 4242-4245.	4.6	54

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37	Formation Pathway of Roussinâ€™s Red Ester (RRE) via the Reaction of a {Fe(NO)2}10 Dinitrosyliron Complex (DNIC) and Thiol: Facile Synthetic Route for Synthesizing Cysteine-Containing DNIC. Inorganic Chemistry, 2013, 52, 13918-13926.	4.0	19
38	Insight into One-Electron Oxidation of the {Fe(NO)₂}⁹ Dinitrosyl Iron Complex (DNIC): Aminyl Radical Stabilized by [Fe(NO)₂] Motif. Inorganic Chemistry, 2013, 52, 1631-1639.	4.0	36
39	Nitrate-to-Nitrite-to-Nitric Oxide Conversion Modulated by Nitrate-Containing {Fe(NO)₂}⁹ Dinitrosyl Iron Complex (DNIC). Inorganic Chemistry, 2013, 52, 464-473.	4.0	35
40	Insight into the Dinuclear {Fe(NO)₂}¹⁰{Fe(NO)₂}¹⁰ and Mononuclear {Fe(NO)₂}¹⁰ Dinitrosyliron Complexes. Inorganic Chemistry, 2012, 51, 4076-4087.	4.0	36
41	Nitric Oxide Turn-on Fluorescent Probe Based on Deamination of Aromatic Primary Monoamines. Inorganic Chemistry, 2012, 51, 5400-5408.	4.0	90
42	A Dinitrosyliron Complex within the Homoleptic Fe(NO)₄ Anion: NO as Nitroxyl and Nitrosyl Ligands within a Single Structure. Inorganic Chemistry, 2012, 51, 10092-10094.	4.0	23
43	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. Journal of Inorganic Biochemistry, 2012, 113, 83-93.	3.5	29
44	Discrimination of Mononuclear and Dinuclear Dinitrosyl Iron Complexes (DNICs) by S K-Edge X-ray Absorption Spectroscopy: Insight into the Electronic Structure and Reactivity of DNICs. Inorganic Chemistry, 2011, 50, 5396-5406.	4.0	55
45	Peptide-Bound Dinitrosyliron Complexes (DNICs) and Neutral/Reduced-Form Roussinâ€™s Red Esters (RREs/rRREs): Understanding Nitrosylation of [Feâ€“S] Clusters Leading to the Formation of DNICs and RREs Using a De Novo Design Strategy. Inorganic Chemistry, 2011, 50, 10417-10431.	4.0	34
46	Transformation of the {Fe(NO)₂}⁹ Dinitrosyl Iron Complexes (DNICs) into <i>S</i>â€Nitrosothiols (RSNOs) Triggered by Acidâ€“Base Pairs. Chemistry - A European Journal, 2011, 17, 13358-13366.	3.3	33
47	Trigonal Bipyramidal {Fe(NO)}⁷ Complex [(NO)Fe(SC₉H₆N)₂] Containing an Equatorial Nitrosyl Ligand: The Critical Role of Chelating Ligands in Regulating the Geometry and Transformation of Mononitrosyl Iron Complex (MNIC). Journal of the Chinese Chemical Society, 2010, 57, 909-915.	1.4	2
48	Formation of the Distinct Redoxâ€Interrelated Forms of Nitric Oxide from Reaction of Dinitrosyl Iron Complexes (DNICs) and Substitution Ligands. Chemistry - A European Journal, 2010, 16, 8088-8095.	3.3	43
49	Roles of the Distinct Electronic Structures of the {Fe(NO)₂}⁹ and {Fe(NO)₂}¹⁰ Dinitrosyliron Complexes in Modulating Nitrite Binding Modes and Nitrite Activation Pathways. Journal of the American Chemical Society, 2010, 132, 5290-5299.	13.7	42
50	Anionic Mixed Thiolateâ˜’Sulfide-Bridged Roussinâ€™s Red Esters [(NO)₂Fe(Î¼-SR)(Î¼-S)Fe(NO)₂]^{â˜’} (R = Et, Me, Ph): A Key Intermediate for Transformation of Dinitrosyl Iron Complexes (DNICs) to [2Fe-2S] Clusters. Inorganic Chemistry, 2009, 48, 9027-9035.	4.0	48
51	Relative Binding Affinity of Thiolate, Imidazolate, Phenoxide, and Nitrite Toward the {Fe(NO)₂} Motif of Dinitrosyl Iron Complexes (DNICs): The Characteristic Pre-Edge Energy of {Fe(NO)₂}⁹ DNICs. Inorganic Chemistry, 2009, 48, 9579-9591.	4.0	67
52	Dinitrosyl Iron Complexes (DNICs) Bearing O-Bound Nitrito Ligand: Reversible Transformation between the Six-Coordinate {Fe(NO)₂}⁹ [(1-MeIm)₂(Î·²-ONO)Fe(NO)₂] (<i>g</i> = 2.013) and Four-Coordinate {Fe(NO)₂}⁹ [(1-MeIm)(ONO)Fe(NO)₂] (<i>g</i> = 2.03). Journal of the American Chemical Society, 2009, 131, 3426-3427.	13.7	45
53	A study of NO trafficking from dinitrosylâ€“iron complexes to the recombinant E. coli transcriptional factor SoxR. Journal of Biological Inorganic Chemistry, 2008, 13, 961-972.	2.6	23
54	Transformation of Dinitrosyl Iron Complexes [(NO)₂Fe(SR)₂]^{â˜’} (R) Tj ETQq0 0 0 rgBT /Overlock Relevance to the Repair of the Nitric Oxide-Modified Ferredoxin [4Fe-4S] Clusters. Journal of the American Chemical Society, 2008, 130, 17154-17160.	13.7	34

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55	New Members of a Class of Dinitrosyliron Complexes (DNICs): Interconversion and Spectroscopic Discrimination of the Anionic {Fe(NO)₂}⁹ [(NO)₂Fe(C₃H₃N₂)₂]^{â^’} and [(NO)₂Fe(C₃H₃N₂)(SR)]^{â^’} (C₃H₃N₂ = Deprotonated Imidazole; R = <i>^t</i>Bu, Et.) Tj ETQq1 1 0.784314 rg BT	4.0	40
56	Nitric Oxide Physiological Responses and Delivery Mechanisms Probed by Water-Soluble Roussinâ€™s Red Ester and {Fe(NO)₂}¹⁰ DNIC. Journal of the American Chemical Society, 2008, 130, 10929-10938.	13.7	70
57	Anionic Roussinâ€™s Red Esters (RREs) <i>syn</i>-/<i>anti</i>-[Fe(Âµ-SEt)(NO)₂]₂^{â^’}: the Critical Role of Thiolate Ligands in Regulating the Transformation of RREs into Dinitrosyl Iron Complexes and the Anionic RREs. Inorganic Chemistry, 2008, 47, 6040-6050.	4.0	76
58	EPR, UVâ^’Vis, IR, and X-ray Demonstration of the Anionic Dimeric Dinitrosyl Iron Complex [(NO)₂Fe(Î¼-S^tBu)₂Fe(NO)₂]⁻:â€‰ Relevance to the Products of Nitrosylation of Cytosolic and Mitochondrial Aconitases, and High-Potential Iron Proteins. Journal of the American Chemical Society, 2007, 129, 12626-12627.	13.7	80
59	Dinitrosyl Iron Complexes (DNICs) Containing S/N/O Ligation:Â Transformation of Roussin's Red Ester into the Neutral {Fe(NO)2}10DNICs. Inorganic Chemistry, 2007, 46, 5110-5117.	4.0	65
60	Mononitrosyl Tris(Thiolate) Iron Complex [Fe(NO)(SPh)3]-and Dinitrosyl Iron Complex [(EtS)2Fe(NO)2]-:Â Formation Pathway of Dinitrosyl Iron Complexes (DNICs) from Nitrosylation of Biomimetic Rubredoxin [Fe(SR)4]2-/1-(R = Ph, Et). Inorganic Chemistry, 2006, 45, 8799-8806.	4.0	93
61	Neutral {Fe(NO)2}9Dinitrosyliron Complex (DNIC) [(SC6H4-o-NHCOPh)(Im)Fe(NO)2] (Im = Imidazole):Â Interconversion among the Anionic/Neutral {Fe(NO)2}9DNICs and Roussin's Red Ester. Inorganic Chemistry, 2006, 45, 6583-6585.	4.0	56
62	Transformation and Structural Discrimination between the Neutral {Fe(NO)2}10Dinitrosyliron Complexes (DNICs) and the Anionic/Cationic {Fe(NO)2}9DNICs. Inorganic Chemistry, 2006, 45, 6041-6047.	4.0	84
63	Dinitrosyl Iron Complexes (DNICs) [L2Fe(NO)2]-(L = Thiolate):Â Interconversion among {Fe(NO)2}9DNICs, {Fe(NO)2}10DNICs, and [2Fe-2S] Clusters, and the Critical Role of the Thiolate Ligands in Regulating NO Release of DNICs. Inorganic Chemistry, 2005, 44, 5872-5881.	4.0	115
64	Photochemistry of the Dinitrosyl Iron Complex [S5Fe(NO)2]-Leading to Reversible Formation of [S5Fe(Î¼-S)2FeS5]2-:Â Spectroscopic Characterization of Species Relevant to the Nitric Oxide Modification and Repair of [2Feâ^’2S] Ferredoxins. Inorganic Chemistry, 2004, 43, 5159-5167.	4.0	89
65	Preparative and Structural Studies on Ruthenium(II)-Thiolate Cyanocarbonyls: Comparison to the [Fe(CO)x(CN)y(SR)z]nâ^’Coordination Modes of Active Sites of Hydrogenases. Journal of the Chinese Chemical Society, 2004, 51, 1121-1126.	1.4	0
66	FeCo/FeCoP_{<i>x</i>}O_{<i>y</i>}(OH)_{<i>z</i>} as Bifunctional Electrodeposited-Film Electrodes for Overall Water Splitting. ACS Applied Energy Materials, 0, , .	5.1	3