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	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
2	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
3	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
4	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
5	Nitric Oxide Turn-on Fluorescent Probe Based on Deamination of Aromatic Primary Monoamines. Inorganic Chemistry, 2012, 51, 5400-5408.	4.0	90
6	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 [2Feâˆ’2S] Ferredoxins. Inorganic Chemistry, 2004, 43, 5159-5167.	4.0	89
7	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
8	EPR, UVâˆ’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
9	Anionic Roussinâ€™s Red Esters (RREs) <i>syn</i>-/<i>anti</i>-[Fe(Âµ-SEt)(NO)₂]₂^{âˆ’}: 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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	Anionic Mixed Thiolateâˆ’Sulfide-Bridged Roussinâ€™s Red Esters [(NO)₂Fe(Î¼-SR)(Î¼-S)Fe(NO)₂]^{âˆ’} (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

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19	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
20	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
21	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
22	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
23	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 rgBT	4.0	40
24	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
25	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
26	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
27	Transformation of Dinitrosyl Iron Complexes [(NO)₂Fe(SR)₂]^{â^’} (R) Tj ETQq1 1 0.784314 rgBT /O 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
28	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
29	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
30	Activation of Angiogenesis and Wound Healing in Diabetic Mice Using NO-Delivery Dinitrosyl Iron Complexes. Molecular Pharmaceutics, 2019, 16, 4241-4251.	4.6	34
31	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
32	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
33	Development of a Dinitrosyl Iron Complex Molecular Catalyst into a Hydrogen Evolution Cathode. Angewandte Chemie - International Edition, 2015, 54, 14824-14829.	13.8	32
34	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
35	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
36	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

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37	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
38	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
39	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
40	{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
41	[Ni^{III}(OMe)]-mediated reductive activation of CO₂ affording a Ni(Îº¹-OCO) complex. Chemical Science, 2016, 7, 3640-3644.	7.4	20
42	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
43	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
44	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
45	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
46	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
47	Ambient Stable Trigonal Bipyramidal Copper(III) Complexes Equipped with an Exchangeable Axial Ligand. Inorganic Chemistry, 2015, 54, 5527-5533.	4.0	15
48	Insight into the Reactivity and Electronic Structure of Dinuclear Dinitrosyl Iron Complexes. Inorganic Chemistry, 2014, 53, 10881-10892.	4.0	14
49	In Vitro and in Vivo Imaging of Nitroxyl with Copper Fluorescent Probe in Living Cells and Zebrafish. Molecules, 2018, 23, 2551.	3.8	13
50	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
51	Electrodeposited-film electrodes derived from a precursor dinitrosyl iron complex for electrocatalytic water splitting. Dalton Transactions, 2018, 47, 7128-7134.	3.3	10
52	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
53	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
54	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

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55	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
56	Nitrosylation of the Diiron Core Mediated by the N Domain of YtfE. Journal of Physical Chemistry Letters, 2020, 11, 8538-8542.	4.6	6
57	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
58	Nitric oxide reduction forming hyponitrite triggered by metalâ€containing complexes. Journal of the Chinese Chemical Society, 2020, 67, 206-212.	1.4	5
59	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
60	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
61	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
62	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
63	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
64	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
65	Preparative and Structural Studies on Ruthenium(II)-Thiolate Cyanocarbonyls: Comparison to the [Fe(CO)x(CN)y(SR)z]nâˆ’Coordination Modes of Active Sites of Hydrogenases. Journal of the Chinese Chemical Society, 2004, 51, 1121-1126.	1.4	0
66	Semiconducting Paddle-Wheel Metalâ€“Organic Complex with a Compact Cuâ€“S Cage. Journal of Physical Chemistry C, 2022, 126, 6300-6307.	3.1	0