Wolfgang Lubitz

List of Publications by Year
in descending order

		5268	10445
394	26,685	83	139
papers	citations	h-index	g-index

405	405	405	11831
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Special Issue of Applied Magnetic Resonance Celebrating the 85th Birthdays of Klaus MÃ¶bius and Kev M. Salikhov. Applied Magnetic Resonance, 2022, 53, 457.	1.2	0
2	Primary donor triplet states of Photosystem I and II studied by Q-band pulse ENDOR spectroscopy. Photosynthesis Research, 2022, , 1.	2.9	9
3	Metallofullerene photoswitches driven by photoinduced fullerene-to-metal electron transfer. Chemical Science, 2021, 12, 7818-7838.	7.4	7
4	Bioenergetics Theory and Components | Hydrogenases Structure and Function. , 2021, , 66-73.		2
5	Vibrational Perturbation of the [FeFe] Hydrogenase H-Cluster Revealed by ¹³C²H-ADT Labeling. Journal of the American Chemical Society, 2021, 143, 8237-8243.	13.7	4
6	Cryo-EM photosystem I structure reveals adaptation mechanisms to extreme high light in Chlorella ohadii. Nature Plants, 2021, 7, 1314-1322.	9.3	18
7	The catalytic cycle of [FeFe] hydrogenase: A tale of two sites. Coordination Chemistry Reviews, 2021, 449, 214191.	18.8	49
8	CIDEP-Enhanced ENDOR of short-lived radicals. Recollections of first joint experiments with Renad Sagdeev. Russian Chemical Bulletin, 2021, 70, 2445-2456.	1.5	0
9	Spectroscopic and biochemical insight into an electron-bifurcating [FeFe] hydrogenase. Journal of Biological Inorganic Chemistry, 2020, 25, 135-149.	2.6	28
10	Spectroscopic and Computational Evidence that [FeFe] Hydrogenases Operate Exclusively with CO-Bridged Intermediates. Journal of the American Chemical Society, 2020, 142, 222-232.	13.7	63
11	Carnitine metabolism in the human gut: characterization of the two-component carnitine monooxygenase CntAB from Acinetobacter baumannii. Journal of Biological Chemistry, 2020, 295, 13065-13078.	3.4	15
12	In Vivo Biogenesis of a De Novo Designed Ironâ€"Sulfur Protein. ACS Synthetic Biology, 2020, 9, 3400-3407.	3.8	10
13	Soft Dynamic Confinement of Membrane Proteins by Dehydrated Trehalose Matrices: High-Field EPR and Fast-Laser Studies. Applied Magnetic Resonance, 2020, 51, 773-850.	1.2	15
14	The Laser-Induced Potential Jump: A Method for Rapid Electron Injection into Oxidoreductase Enzymes. Journal of Physical Chemistry B, 2020, 124, 8750-8760.	2.6	8
15	Spin Polarization Reveals the Coordination Geometry of the [FeFe] Hydrogenase Active Site in Its CO-Inhibited State. Journal of Physical Chemistry Letters, 2020, 11, 4597-4602.	4.6	7
16	Redoxâ€Polymerâ€Based Highâ€Currentâ€Density Gasâ€Diffusion H₂â€Oxidation Bioanode Using [FeFe] Hydrogenase from <i>Desulfovibrio desulfuricans</i> in a Membraneâ€free Biofuel Cell. Angewandte Chemie - International Edition, 2020, 59, 16506-16510.	13.8	21
17	Current Understanding of the Mechanism of Water Oxidation in Photosystem II and Its Relation to XFEL Data. Annual Review of Biochemistry, 2020, 89, 795-820.	11.1	123
18	Suppressing hydrogen peroxide generation to achieve oxygen-insensitivity of a [NiFe] hydrogenase in redox active films. Nature Communications, 2020, 11, 920.	12.8	28

#	ARTICLE	IF	CITATIONS
19	Eine Redoxpolymerâ€basierte Gasdiffusionsâ€H 2 â€Oxidationsbioanode mit hoher Stromdichte unter Verwendung von [FeFe]â€Hydrogenase aus Desulfovibrio desulfuricans integriert in einer membranfreien Biobrennstoffzelle. Angewandte Chemie, 2020, 132, 16649.	2.0	2
20	Five-coordinate Mn ^{IV} intermediate in the activation of natureâ€™s water splitting cofactor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16841-16846.	7.1	54
21	In Situ EPR Characterization of a Cobalt Oxide Water Oxidation Catalyst at Neutral pH. Catalysts, 2019, 9, 926.	3.5	27
22	Investigating the Kinetic Competency of <i>Cr</i>HydA1 [FeFe] Hydrogenase Intermediate States via Time-Resolved Infrared Spectroscopy. Journal of the American Chemical Society, 2019, 141, 16064-16070.	13.7	38
23	Asymmetry in the Ligand Coordination Sphere of the [FeFe] Hydrogenase Active Site Is Reflected in the Magnetic Spin Interactions of the Aza-propanedithiolate Ligand. Journal of Physical Chemistry Letters, 2019, 10, 6794-6799.	4.6	22
24	Extending electron paramagnetic resonance to nanoliter volume protein single crystals using a self-resonant microhelix. Science Advances, 2019, 5, eaay1394.	10.3	21
25	Water oxidation in photosystem II. Photosynthesis Research, 2019, 142, 105-125.	2.9	149
26	Bioinspired Artificial [FeFe]-Hydrogenase with a Synthetic H-Cluster. ACS Catalysis, 2019, 9, 4495-4501.	11.2	17
27	Polymer-Bound DuBois-Type Molecular H₂ Oxidation Ni Catalysts Are Protected by Redox Polymer Matrices. ACS Applied Energy Materials, 2019, 2, 2921-2929.	5.1	10
28	Structural adaptations of photosynthetic complex I enable ferredoxin-dependent electron transfer. Science, 2019, 363, 257-260.	12.6	162
29	Nitroxide Spin Labelsâ€"Magnetic Parameters and Hydrogen-Bond Formation: A High-Field EPR and EDNMR Study. Applied Magnetic Resonance, 2019, 50, 1-16.	1.2	14
30	His-Ligation to the [4Feâ€"4S] Subcluster Tunes the Catalytic Bias of [FeFe] Hydrogenase. Journal of the American Chemical Society, 2019, 141, 472-481.	13.7	32
31	Spin-dependent recombination of the charge-transfer state in photovoltaic polymer/fullerene blends. Molecular Physics, 2019, 117, 2654-2663.	1.7	9
32	Direct Detection of the Terminal Hydride Intermediate in [FeFe] Hydrogenase by NMR Spectroscopy. Journal of the American Chemical Society, 2018, 140, 3863-3866.	13.7	32
33	Dual properties of a hydrogen oxidation Ni-catalyst entrapped within a polymer promote self-defense against oxygen. Nature Communications, 2018, 9, 864.	12.8	35
34	A [RuRu] Analogue of an [FeFe]â€Hydrogenase Traps the Key Hydride Intermediate of the Catalytic Cycle. Angewandte Chemie, 2018, 130, 5527-5530.	2.0	6
35	A [RuRu] Analogue of an [FeFe]-Hydrogenase Traps the Key Hydride Intermediate of the Catalytic Cycle. Angewandte Chemie - International Edition, 2018, 57, 5429-5432.	13.8	36
36	Spectroscopic investigations of a semi-synthetic [FeFe] hydrogenase with propane di-selenol as bridging ligand in the binuclear subsite: comparison to the wild type and propane di-thiol variants. Journal of Biological Inorganic Chemistry, 2018, 23, 481-491.	2.6	13

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37	The radical SAM protein HemW is a heme chaperone. Journal of Biological Chemistry, 2018, 293, 2558-2572.	3.4	32
38	Rational redesign of the ferredoxin-NADP+-oxido-reductase/ferredoxin-interaction for photosynthesis-dependent H2-production. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 253-262.	1.0	18
39	Photoredoxâ€Switchable Resorcin[4]arene Cavitands: Radical Control of Molecular Gripping Machinery via Hydrogen Bonding. Chemistry - A European Journal, 2018, 24, 1431-1440.	3.3	15
40	Unique Spectroscopic Properties of the H-Cluster in a Putative Sensory [FeFe] Hydrogenase. Journal of the American Chemical Society, 2018, 140, 1057-1068.	13.7	53
41	Engineering an [FeFe]-Hydrogenase: Do Accessory Clusters Influence O₂ Resistance and Catalytic Bias?. Journal of the American Chemical Society, 2018, 140, 5516-5526.	13.7	48
42	Structured near-infrared Magnetic Circular Dichroism spectra of the Mn4CaO5 cluster of PSII in T. vulcanus are dominated by Mn(IV) d-d â€˜spin-flipâ€™ transitions. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 88-98.	1.0	12
43	1H NMR Spectroscopy of [FeFe] Hydrogenase: Insight into the Electronic Structure of the Active Site. Journal of the American Chemical Society, 2018, 140, 131-134.	13.7	9
44	Thermally Activated Delayed Fluorescence in a Y₃N@C₈₀ Endohedral Fullerene: Timeâ€Resolved Luminescence and EPR Studies. Angewandte Chemie, 2018, 130, 283-287.	2.0	2
45	Thermally Activated Delayed Fluorescence in a Y₃N@C₈₀ Endohedral Fullerene: Timeâ€Resolved Luminescence and EPR Studies. Angewandte Chemie - International Edition, 2018, 57, 277-281.	13.8	12
46	A gas breathing hydrogen/air biofuel cell comprising a redox polymer/hydrogenase-based bioanode. Nature Communications, 2018, 9, 4715.	12.8	71
47	Biomolecular EPR Meets NMR at High Magnetic Fields. Magnetochemistry, 2018, 4, 50.	2.4	21
48	Atomic-Scale Explanation of O₂ Activation at the Auâ€“TiO₂ Interface. Journal of the American Chemical Society, 2018, 140, 18082-18092.	13.7	69
49	A fully protected hydrogenase/polymer-based bioanode for high-performance hydrogen/glucose biofuel cells. Nature Communications, 2018, 9, 3675.	12.8	53
50	Remembering George Feher (1924â€“2017). Photosynthesis Research, 2018, 137, 361-375.	2.9	1
51	Viologen-modified electrodes for protection of hydrogenases from high potential inactivation while performing H₂oxidation at low overpotential. Dalton Transactions, 2018, 47, 10685-10691.	3.3	9
52	Sulfide Protects [FeFe] Hydrogenases From O₂. Journal of the American Chemical Society, 2018, 140, 9346-9350.	13.7	47
53	Preventing the coffee-ring effect and aggregate sedimentation by <i>in situ</i> gelation of monodisperse materials. Chemical Science, 2018, 9, 7596-7605.	7.4	53
54	Proton Coupled Electronic Rearrangement within the H-Cluster as an Essential Step in the Catalytic Cycle of [FeFe] Hydrogenases. Journal of the American Chemical Society, 2017, 139, 1440-1443.	13.7	142

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55	Probing the Electronic Structure of Bacteriochlorophyll Radical Ionsâ€”A Theoretical Study of the Effect of Substituents on Hyperfine Parameters. Photochemistry and Photobiology, 2017, 93, 755-761.	2.5	1
56	The structurally unique photosynthetic Chlorella variabilis NC64A hydrogenase does not interact with plant-type ferredoxins. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 771-778.	1.0	14
57	Structural and functional characterization of the hydrogenase-maturation HydF protein. Nature Chemical Biology, 2017, 13, 779-784.	8.0	38
58	Direct Observation of an Iron-Bound Terminal Hydride in [FeFe]-Hydrogenase by Nuclear Resonance Vibrational Spectroscopy. Journal of the American Chemical Society, 2017, 139, 4306-4309.	13.7	155
59	Intersubunit distances in full-length, dimeric, bacterial phytochrome Agp1, as measured by pulsed electron-electron double resonance (PELDOR) between different spin label positions, remain unchanged upon photoconversion. Journal of Biological Chemistry, 2017, 292, 7598-7606.	3.4	13
60	A novel versatile microbiosensor for local hydrogen detection by means of scanning photoelectrochemical microscopy. Biosensors and Bioelectronics, 2017, 94, 433-437.	10.1	26
61	Local water sensing: water exchange in bacterial photosynthetic reaction centers embedded in a trehalose glass studied using multiresonance EPR. Physical Chemistry Chemical Physics, 2017, 19, 28388-28400.	2.8	16
62	Influence of the [4Feâ€“4S] cluster coordinating cysteines on active site maturation and catalytic properties of <i>C. reinhardtii</i> [FeFe]-hydrogenase. Chemical Science, 2017, 8, 8127-8137.	7.4	20
63	Solvent water interactions within the active site of the membrane type I matrix metalloproteinase. Physical Chemistry Chemical Physics, 2017, 19, 30316-30331.	2.8	16
64	Reaction Coordinate Leading to H₂ Production in [FeFe]-Hydrogenase Identified by Nuclear Resonance Vibrational Spectroscopy and Density Functional Theory. Journal of the American Chemical Society, 2017, 139, 16894-16902.	13.7	78
65	The First State in the Catalytic Cycle of the Water-Oxidizing Enzyme: Identification of a Water-Derived Î¼-Hydroxo Bridge. Journal of the American Chemical Society, 2017, 139, 14412-14424.	13.7	63
66	Semisynthetic Hydrogenases Propel Biological Energy Research into a New Era. Joule, 2017, 1, 61-76.	24.0	40
67	Intercluster Redox Coupling Influences Protonation at the H-cluster in [FeFe] Hydrogenases. Journal of the American Chemical Society, 2017, 139, 15122-15134.	13.7	56
68	ELDOR-detected NMR: A general and robust method for electron-nuclear hyperfine spectroscopy?. Journal of Magnetic Resonance, 2017, 280, 63-78.	2.1	35
69	Spectroscopic Evidence of Reversible Disassembly of the [FeFe] Hydrogenase Active Site. Journal of Physical Chemistry Letters, 2017, 8, 3834-3839.	4.6	15
70	Interplay between CN^{â€“} Ligands and the Secondary Coordination Sphere of the H-Cluster in [FeFe]-Hydrogenases. Journal of the American Chemical Society, 2017, 139, 18222-18230.	13.7	42
71	Chalcogenide substitution in the [2Fe] cluster of [FeFe]-hydrogenases conserves high enzymatic activity. Dalton Transactions, 2017, 46, 16947-16958.	3.3	48
72	Jim Hyde and the ENDOR Connection: A Personal Account. Applied Magnetic Resonance, 2017, 48, 1149-1183.	1.2	0

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73	Electrochemical Investigations on the Inactivation of the [FeFe] Hydrogenase from <i>Desulfovibrio desulfuricans</i> by O₂ or Light under Hydrogenâ€Producing Conditions. ChemPlusChem, 2017, 82, 540-545.	2.8	20
74	Trehalose matrix effects on charge-recombination kinetics in Photosystem I of oxygenic photosynthesis at different dehydration levels. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1440-1454.	1.0	31
75	In Situ EPR Study of the Redox Properties of CuOâ€“CeO₂ Catalysts for Preferential CO Oxidation (PROX). ACS Catalysis, 2016, 6, 3520-3530.	11.2	97
76	The auxiliary [4Feâ€“4S] cluster of the Radical SAM heme synthase from Methanosarcina barkeri is involved in electron transfer. Chemical Science, 2016, 7, 4633-4643.	7.4	19
77	Chemical assembly of multiple metal cofactors: The heterologously expressed multidomain [FeFe]-hydrogenase from Megasphaera elsdenii. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1734-1740.	1.0	26
78	Covalent Attachment of the Waterâ€insoluble Ni(P Cy 2 N Phe 2) 2 Electrocatalyst to Electrodes Showing Reversible Catalysis in Aqueous Solution. Electroanalysis, 2016, 28, 2452-2458.	2.9	12
79	Following [FeFe] Hydrogenase Active Site Intermediates by Time-Resolved Mid-IR Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 3290-3293.	4.6	16
80	Artificial Maturation of the Highly Active Heterodimeric [FeFe] Hydrogenase from <i>Desulfovibrio desulfuricans</i> ATCC 7757. Israel Journal of Chemistry, 2016, 56, 852-863.	2.3	39
81	Structure and function of [NiFe] hydrogenases. Journal of Biochemistry, 2016, 160, 251-258.	1.7	92
82	Divergent assembly mechanisms of the manganese/iron cofactors in R2lox and R2c proteins. Journal of Inorganic Biochemistry, 2016, 162, 164-177.	3.5	24
83	Importance of Hydrogen Bonding in Fine Tuning the [2Fe-2S] Cluster Redox Potential of HydC from <i>Thermotoga maritima</i>. Biochemistry, 2016, 55, 4344-4355.	2.5	23
84	Protein Immobilization Capabilities of Sucrose and Trehalose Glasses: The Effect of Protein/Sugar Concentration Unraveled by High-Field EPR. Journal of Physical Chemistry Letters, 2016, 7, 4871-4877.	4.6	46
85	Elucidation of the heme active site electronic structure affecting the unprecedented nitrite dismutase activity of the ferriheme b proteins, the nitrophorins. Chemical Science, 2016, 7, 5332-5340.	7.4	10
86	Paramagnetic Molecular Grippers: The Elements of Six-State Redox Switches. Journal of Physical Chemistry Letters, 2016, 7, 2470-2477.	4.6	12
87	MÃ¶biusâ€“HÃ¼ckel Topology Switching in Expanded Porphyrins: EPR, ENDOR, and DFT Studies of Doublet and Triplet Open-Shell Systems. Applied Magnetic Resonance, 2016, 47, 757-780.	1.2	12
88	Light and Temperature Control of the Spin State of Bis(<i>p</i>-methoxyphenyl)carbene: A Magnetically Bistable Carbene. Journal of the American Chemical Society, 2016, 138, 1622-1629.	13.7	26
89	Recent developments in biological water oxidation. Current Opinion in Chemical Biology, 2016, 31, 113-119.	6.1	97
90	In search of metal hydrides: an X-ray absorption and emission study of [NiFe] hydrogenase model complexes. Physical Chemistry Chemical Physics, 2016, 18, 10688-10699.	2.8	29

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91	A five-coordinate Mn(<scp>iv</scp>) intermediate in biological water oxidation: spectroscopic signature and a pivot mechanism for water binding. Chemical Science, 2016, 7, 72-84.	7.4	158
92	Spin State as a Marker for the Structural Evolution of Natureâ€™s Water-Splitting Catalyst. Inorganic Chemistry, 2016, 55, 488-501.	4.0	87
93	Models of the Ni-L and Ni-SI_a States of the [NiFe]-Hydrogenase Active Site. Inorganic Chemistry, 2016, 55, 419-431.	4.0	56
94	Pulse Double-Resonance EPR Techniques for the Study of Metallobiomolecules. Methods in Enzymology, 2015, 563, 211-249.	1.0	16
95	A strenuous experimental journey searching forÂspectroscopic evidence of a bridging nickelâ€“ironâ€“hydride in [NiFe] hydrogenase. Journal of Synchrotron Radiation, 2015, 22, 1334-1344.	2.4	23
96	Ein Redoxhydrogel schÃ¼tzt die O₂â€empfindliche [FeFe]â€Hydrogenase aus <i>Chlamydomonas reinhardtii</i> vor oxidativer ZerstÃ¶rung. Angewandte Chemie, 2015, 127, 12506-12510.	2.0	17
97	Direct Comparison of the Performance of a Bioâ€inspired Synthetic Nickel Catalyst and a [NiFe]â€Hydrogenase, Both Covalently Attached to Electrodes. Angewandte Chemie - International Edition, 2015, 54, 12303-12307.	13.8	61
98	Structural Insight into the Complex of Ferredoxin and [FeFe] Hydrogenase from <i>Chlamydomonas reinhardtii</i>. ChemBioChem, 2015, 16, 1663-1669.	2.6	28
99	A Redox Hydrogel Protects the O₂â€Sensitive [FeFe]â€Hydrogenase from <i>Chlamydomonas reinhardtii</i> from Oxidative Damage. Angewandte Chemie - International Edition, 2015, 54, 12329-12333.	13.8	87
100	Artificial photosynthesis: understanding water splitting in nature. Interface Focus, 2015, 5, 20150009.	3.0	60
101	Cofactor composition and function of a H₂-sensing regulatory hydrogenase as revealed by MÃ¶ssbauer and EPR spectroscopy. Chemical Science, 2015, 6, 4495-4507.	7.4	35
102	MÃ¶biusâ€“HÃ¼ckel topology switching in an expanded porphyrin cation radical as studied by EPR and ENDOR spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 6644-6652.	2.8	20
103	Artificially maturated [FeFe] hydrogenase from Chlamydomonas reinhardtii: a HYSCORE and ENDOR study of a non-natural H-cluster. Physical Chemistry Chemical Physics, 2015, 17, 5421-5430.	2.8	39
104	Hybrid [FeFe]-Hydrogenases with Modified Active Sites Show Remarkable Residual Enzymatic Activity. Biochemistry, 2015, 54, 1474-1483.	2.5	113
105	Hydrogens detected by subatomic resolution protein crystallography in a [NiFe] hydrogenase. Nature, 2015, 520, 571-574.	27.8	267
106	A caged substrate peptide for matrix metalloproteinases. Photochemical and Photobiological Sciences, 2015, 14, 300-307.	2.9	9
107	Metal oxidation states in biological water splitting. Chemical Science, 2015, 6, 1676-1695.	7.4	275
108	The Magic of Disaccharide Glass Matrices for Protein Function as Decoded by High-Field EPR and FTIR Spectroscopy. Applied Magnetic Resonance, 2015, 46, 435-464.	1.2	8

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109	Spectroscopic Investigations of [FeFe] Hydrogenase Maturated with [⁵⁷Fe₂(adt)(CN)₂(CO)₄]^{2â€“}. Journal of the American Chemical Society, 2015, 137, 8998-9005.	13.7	69
110	Design and Characterization of Phosphine Iron Hydrides: Toward Hydrogen-Producing Catalysts. Inorganic Chemistry, 2015, 54, 6928-6937.	4.0	23
111	Nitrite Dismutase Reaction Mechanism: Kinetic and Spectroscopic Investigation of the Interaction between Nitrophorin and Nitrite. Journal of the American Chemical Society, 2015, 137, 4141-4150.	13.7	22
112	Mechanism of Protection of Catalysts Supported in Redox Hydrogel Films. Journal of the American Chemical Society, 2015, 137, 5494-5505.	13.7	81
113	Iron-Sulfur Cluster-dependent Catalysis of Chlorophyllide a Oxidoreductase from Roseobacter denitrificans. Journal of Biological Chemistry, 2015, 290, 1141-1154.	3.4	17
114	Spectroscopic Characterization of the Bridging Amine in the Active Site of [FeFe] Hydrogenase Using Isotopologues of the H-Cluster. Journal of the American Chemical Society, 2015, 137, 12744-12747.	13.7	64
115	Structural differences between the active sites of the Ni-A and Ni-B states of the [NiFe] hydrogenase: an approach by quantum chemistry and single crystal ENDOR spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 16204-16212.	2.8	21
116	Hydride bridge in [NiFe]-hydrogenase observed by nuclear resonance vibrational spectroscopy. Nature Communications, 2015, 6, 7890.	12.8	96
117	Pressure and Temperature Effects on the Activity and Structure of the Catalytic Domain of Human MT1-MMP. Biophysical Journal, 2015, 109, 2371-2381.	0.5	24
118	Redox active iron nitrosyl units in proton reduction electrocatalysis. Nature Communications, 2014, 5, 3684.	12.8	58
119	Protein Crystallography Using Freeâ€Electron Lasers: Water Oxidation in Photosynthesis. Angewandte Chemie - International Edition, 2014, 53, 13007-13008.	13.8	5
120	Synthesis and Characterization of Nickel Compounds with Tetradentate Thiolateâ€“Thioether Ligands as Precursors for [NiFe]â€“Hydrogenase Models. European Journal of Inorganic Chemistry, 2014, 2014, 148-155.	2.0	5
121	Crystallization and preliminary X-ray crystallographic analysis of the catalytic domain of membrane type 1 matrix metalloproteinase. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 232-235.	0.8	10
122	High-field ELDOR-detected NMR study of a nitroxide radical in disordered solids: Towards characterization of heterogeneity of microenvironments in spin-labeled systems. Journal of Magnetic Resonance, 2014, 242, 203-213.	2.1	45
123	Structure, ligands and substrate coordination of the oxygen-evolving complex of photosystem II in the S2 state: a combined EPR and DFT study. Physical Chemistry Chemical Physics, 2014, 16, 11877.	2.8	77
124	The first tyrosyl radical intermediate formed in the S2â€“S3 transition of photosystem II. Physical Chemistry Chemical Physics, 2014, 16, 11901.	2.8	68
125	Structural and dynamical characteristics of trehalose and sucrose matrices at different hydration levels as probed by FTIR and high-field EPR. Physical Chemistry Chemical Physics, 2014, 16, 9831-9848.	2.8	47
126	A redox hydrogel protects hydrogenase from high-potential deactivation and oxygen damage. Nature Chemistry, 2014, 6, 822-827.	13.6	209

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127	Photosynthesis: from natural to artificial. Physical Chemistry Chemical Physics, 2014, 16, 11810.	2.8	16
128	Electronic Structural Flexibility of Heterobimetallic Mn/Fe Cofactors: R2lox and R2c Proteins. Journal of the American Chemical Society, 2014, 136, 13399-13409.	13.7	37
129	Electronic structure of the oxygen-evolving complex in photosystem II prior to O-O bond formation. Science, 2014, 345, 804-808.	12.6	432
130	New Redox States Observed in [FeFe] Hydrogenases Reveal Redox Coupling Within the H-Cluster. Journal of the American Chemical Society, 2014, 136, 11339-11346.	13.7	121
131	Enhancing hydrogen production of microalgae by redirecting electrons from photosystem I to hydrogenase. Energy and Environmental Science, 2014, 7, 3296-3301.	30.8	77
132	Comparative ENDOR study at 34ÂGHz of the triplet state of the primary donor in bacterial reaction centers of Rb. sphaeroides and Bl. viridis. Photosynthesis Research, 2014, 120, 99-111.	2.9	6
133	Modeling the Active Site of [NiFe] Hydrogenases and the [NiFeu] Subsite of the C-Cluster of Carbon Monoxide Dehydrogenases: Low-Spin Iron(II) Versus High-Spin Iron(II). Inorganic Chemistry, 2014, 53, 6329-6337.	4.0	16
134	Hydrogenases. Chemical Reviews, 2014, 114, 4081-4148.	47.7	1,653
135	Theoretical Spectroscopy of the Ni^{II} Intermediate States in the Catalytic Cycle and the Activation of [NiFe] Hydrogenases. ChemBioChem, 2013, 14, 1898-1905.	2.6	56
136	Orientation and Function of a Membrane-Bound Enzyme Monitored by Electrochemical Surface-Enhanced Infrared Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2013, 4, 2794-2798.	4.6	29
137	EPR Spectroscopy and the Electronic Structure of the Oxygen-Evolving Complex of Photosystem II. Applied Magnetic Resonance, 2013, 44, 691-720.	1.2	24
138	Spontaneous activation of [FeFe]-hydrogenases by an inorganic [2Fe] active site mimic. Nature Chemical Biology, 2013, 9, 607-609.	8.0	316
139	[NiFe] hydrogenases: A common active site for hydrogen metabolism under diverse conditions. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 986-1002.	1.0	219
140	Ammonia binding to the oxygen-evolving complex of photosystem II identifies the solvent-exchangeable oxygen bridge (Î¼-oxo) of the manganese tetramer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15561-15566.	7.1	148
141	Direct observation of structurally encoded metal discrimination and ether bond formation in a heterodinuclear metalloprotein. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17189-17194.	7.1	49
142	W-band ELDOR-detected NMR (EDNMR) spectroscopy as a versatile technique for the characterisation of transition metalâ€“ligand interactions. Molecular Physics, 2013, 111, 2788-2808.	1.7	59
143	Electronic structure of the unique [4Fe-3S] cluster in O ₂ -tolerant hydrogenases characterized by ⁵⁷ Fe MÃ¶ssbauer and EPR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 483-488.	7.1	57
144	Observation of the Feï£¿CN and Feï£¿CO Vibrations in the Active Site of [NiFe] Hydrogenase by Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 724-728.	13.8	60

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145	Artificial Photosynthesis for Solar Fuels â€" an Evolving Research Field within AMPEA, a Joint Programme of the European Energy Research Alliance. Green, 2013, 3, .	0.4	62
146	High-field EPR on membrane proteins â€" Crossing the gap to NMR. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 75, 1-49.	7.5	22
147	Biological Water Oxidation. Accounts of Chemical Research, 2013, 46, 1588-1596.	15.6	453
148	Energy and environment policy case for a global project on artificial photosynthesis. Energy and Environmental Science, 2013, 6, 695.	30.8	264
149	A Metalâ€"Metal Bond in the Light-Induced State of [NiFe] Hydrogenases with Relevance to Hydrogen Evolution. Journal of the American Chemical Society, 2013, 135, 3915-3925.	13.7	95
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