

Lorenz Walder

List of Publications by Year in descending order

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73
docs citations

73
times ranked

2772
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials and systems for polymer-based Metallocene batteries: Status and challenges. <i>Polymer</i> , 2022, 245, 124658.	1.8	3
2	The Metallocene Battery: Ultrafast Electron Transfer Self Exchange Rate Accompanied by a Harmonic Height Breathing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13554-13558.	7.2	20
3	The Metallocene Battery: Ultrafast Electron Transfer Self Exchange Rate Accompanied by a Harmonic Height Breathing. <i>Angewandte Chemie</i> , 2021, 133, 13666-13670.	1.6	3
4	Flexible, Self-Supported Anode for Organic Batteries with a Matched Hierarchical Current Collector System for Boosted Current Density. <i>Small</i> , 2021, 17, 2103885.	5.2	3
5	Photo-Electrochemical Device Enabling Luminescence Switching of LaPO ₄ :Ce,Tb Nanoparticle Layers. <i>Advanced Optical Materials</i> , 2021, 9, 2001891.	3.6	2
6	Active Anion Delivery by Self-Propelled Microswimmers. <i>ACS Nano</i> , 2020, 14, 3434-3441.	7.3	34
7	A unique ferredoxin acts as a player in the low-iron response of photosynthetic organisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12111-E12120.	3.3	28
8	Drug Delivery: Doxorubicin Adsorbed on Carbon Nanotubes: Helical Structure and New Release Trigger (<i>Adv. Mater. Interfaces</i> 19/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	1.9	0
9	Doxorubicin Adsorbed on Carbon Nanotubes: Helical Structure and New Release Trigger. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700649.	1.9	15
10	High Performance Poly(viologen)-Graphene Nanocomposite Battery Materials with Puff Paste Architecture. <i>ACS Nano</i> , 2017, 11, 8730-8740.	7.3	43
11	TEMPO-Labeled Viologen Dendrimers: Synthesis, Characterization, and Preliminary Distance Measurements. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700142.	1.1	4
12	Evaluation and Elucidation of DNA-Containing Viologen Dendrimer Complex Formation. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1897-1907.	1.2	2
13	Electro-Oxidation of Ni ₄₂ Steel: A Highly Active Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , 2016, 26, 6402-6417.	7.8	90
14	Poly(vinylferrocene)-Reduced Graphene Oxide as a High Power/High Capacity Cathodic Battery Material. <i>Advanced Energy Materials</i> , 2016, 6, 1600108.	10.2	48
15	Oxidized Mild Steel S235: An Efficient Anode for Electrocatalytically Initiated Water Splitting. <i>ChemSusChem</i> , 2015, 8, 3099-3110.	3.6	50
16	Stainless steel made to rust: a robust water-splitting catalyst with benchmark characteristics. <i>Energy and Environmental Science</i> , 2015, 8, 2685-2697.	15.6	180
17	Surface Oxidation of Stainless Steel: Oxygen Evolution Electrocatalysts with High Catalytic Activity. <i>ACS Catalysis</i> , 2015, 5, 2671-2680.	5.5	153
18	Alkylene-bridged viologen dendrimers: versatile cell delivery tools with biosensing properties. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9583-9591.	1.5	7

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19	Oxygen Plasma Effects on Zero Resistance Behavior of Yb,Er-doped YBCO (123) Based Superconductors. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1900-1906.	0.6	0
20	Inkjet Printing as a Flexible Technology for the Deposition of Thermoelectric Composite Structures. <i>Procedia Technology</i> , 2014, 15, 99-106.	1.1	33
21	Basic characterization and investigation of a fluorinated terpolymer in pure state and in mixtures with kaolinite at solid interphases of thin films prepared by facile solution cast and nonsolvent methods. <i>High Performance Polymers</i> , 2014, 26, 779-789.	0.8	13
22	PolyTEMPO and polyviologen on carbon nanotubes: syntheses, structures and organic battery applications. <i>European Polymer Journal</i> , 2013, 49, 1923-1934.	2.6	33
23	Oligo- ϵ -viologen/SWCNT nano-composites: Preparation and characterization. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2395-2398.	0.7	13
24	Facile Synthesis of the High-Pressure Polymorph of Nanocrystalline LiFePO ₄ at Ambient Pressure and Low Temperature. <i>Chemistry of Materials</i> , 2012, 24, 633-635.	3.2	12
25	Triply Branched Viologen Stars: Synthesis and Polymerization by Peripheral Benzyl Coupling. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 913-921.	1.2	18
26	Shell-by-Shell Inside-Out Complexation of Organic Anions in Flexible and Rigid Pyridinium Dendrimers. <i>Macromolecules</i> , 2011, 44, 8563-8574.	2.2	15
27	Reactive Zr ^{IV} and Hf ^{IV} Butterfly Peroxides on Polyoxometalate Surfaces: Bridging the Gap between Homogeneous and Heterogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2011, 17, 8371-8378.	1.7	77
28	Dye sensitized membranes within mesoporous TiO ₂ : Photocurrents in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 216, 35-43.	2.0	14
29	Viologen-based benzylic dendrimers: selective synthesis of 3,5-bis(hydroxymethyl)benzylbromide and conformational analysis of the corresponding viologen dendrimer subunit. <i>Tetrahedron Letters</i> , 2010, 51, 2188-2192.	0.7	26
30	Trimethylenedipyridinium Dendrimers: Synthesis and Sequential Complexation of Anthraquinone Disulfonate in Molecular Shells. <i>Macromolecules</i> , 2010, 43, 9248-9256.	2.2	5
31	Peroxo-Zr/Hf-Containing Undecatungstosilicates and -Germanates. <i>Inorganic Chemistry</i> , 2010, 49, 7-9.	1.9	75
32	Phototriggered NO and CN release from [Fe(CN) ₅ NO] ²⁻ molecules electrostatically attached to TiO ₂ surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3283.	1.3	12
33	Pore size and surface charge control in mesoporous TiO ₂ using post-grafted SAMs. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1473.	1.3	25
34	Tuning the Hydrophilic, Hydrophobic, and Ion Exchange Properties of Mesoporous TiO ₂ . <i>Langmuir</i> , 2009, 25, 5371-5379.	1.6	28
35	6-Peroxo-6-Zirconium Crown and Its Hafnium Analogue Embedded in a Triangular Polyanion: [M ₆ (O ₂) ₆ (OH) ₆ (³⁻ SiW ₁₀ O ₃₆) ₃] ³⁶⁻ (M = Zr, Hf). <i>Journal of the American Chemical Society</i> , 2008, 130, 6696-6697.	3.6	138
36	Interaction of Viologens with Nucleic Acid G-Tetrad. <i>Langmuir</i> , 2008, 24, 5641-5643.	1.6	2

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37	Inkjet-Printed Thiol Self-Assembled Monolayer Structures on Gold: Quality Control and Microarray Electrode Fabrication. <i>Langmuir</i> , 2008, 24, 9110-9117.	1.6	22
38	Modification of Mesoporous TiO ₂ Electrodes with Cross-Linkable B ₁₂ Derivatives. <i>Langmuir</i> , 2006, 22, 5544-5547.	1.6	11
39	Galvinoxyl monolayers on Au(111) studied by STM, EPR, and cyclic voltammetry. <i>Physical Review B</i> , 2006, 74, .	1.1	19
40	P-118: High Resolution Electrochromic Displays for E-Readers. Digest of Technical Papers SID International Symposium, 2005, 36, 750.	0.1	1
41	Synthesis of Nonsymmetrically N,N'-Diaryl-Substituted 4,4'-Bipyridinium Salts with Redox-Tunable and Titanium Dioxide (TiO ₂)-Anchoring Properties. <i>Helvetica Chimica Acta</i> , 2005, 88, 3200-3209.	1.0	42
42	Charge Propagation in α -Helix Channel Sensors Based on Protein-Modified Electrodes and Redox Marker Ions. <i>Journal of the American Chemical Society</i> , 2005, 127, 11486-11496.	6.6	27
43	Covalent layer-by-layer type modification of electrodes using ferrocene derivatives and crosslinkers. <i>Electrochimica Acta</i> , 2004, 49, 4679-4685.	2.6	20
44	Elucidation of the electron transfer mechanism of marker ions at SAMs with charged head groups. <i>Journal of Electroanalytical Chemistry</i> , 2004, 574, 49-62.	1.9	38
45	Generation-Dependent Intramolecular CT Complexation in a Dendrimer Electron Sponge Consisting of a Viologen Skeleton. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 806-809.	7.2	60
46	Molecular Suppression of the Pimerization of Viologens (=4,4'-Bipyridinium Derivatives) Attached to Nanocrystalline Titanium Dioxide Thin-Film Electrodes. <i>Helvetica Chimica Acta</i> , 2000, 83, 181-192.	1.0	40
47	Liquid Density Response of a Quartz Crystal Microbalance Modified with Mesoporous Titanium Dioxide. <i>Analytical Chemistry</i> , 1999, 71, 3305-3310.	3.2	26
48	Long-Lived Photoinduced Charge Separation and Redox-Type Photochromism on Mesoporous Oxide Films Sensitized by Molecular Dyads. <i>Journal of the American Chemical Society</i> , 1999, 121, 1324-1336.	6.6	253
49	A New 2,2'-Bipyridinium Salt with Pink Electrochromism for the Modification of Nanocrystalline TiO ₂ -Electrodes. <i>Chemistry Letters</i> , 1998, 27, 815-816.	0.7	8
50	Hybrid sheds new light on smart windows. <i>Physics World</i> , 1997, 10, 23-23.	0.0	0
51	Synthesis of Vitamin B ₁₂ Derivatives with a Peripheral Metal Binding Site. <i>Helvetica Chimica Acta</i> , 1997, 80, 1183-1189.	1.0	8
52	Photoinduced electron transfer and redox-type photochromism of a TiO ₂ -anchored molecular diad. <i>Chemical Communications</i> , 1996, , 1163-1164.	2.2	37
53	<title>Nanostructured TiO<formula><inf><roman>2</roman></inf></formula> semiconductor electrodes modified with surface-attached viologens: applications for displays and smart windows</title>. , 1995, 2531, 60.		8
54	Organic Diodes Based on Redox-Polymer Bilayer-Film-Modified Electrodes. <i>Helvetica Chimica Acta</i> , 1994, 77, 351-371.	1.0	14

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55	Photocurrents at polymeric triads: sensitized redox cascades under forward and reverse bias. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 51.	2.0	12
56	A Reduction Catalyst Powered by Its Own 10-Electron Battery: Synthesis and properties of a pentaviologen-linked corrinatocobalt complex. <i>Helvetica Chimica Acta</i> , 1992, 75, 90-108.	1.0	14
57	SN2 or Electron Transfer?? A new technique discriminates the mechanisms of oxidative addition of alkyl halides to corrinato- and porphyrinatocobalt(I). <i>Helvetica Chimica Acta</i> , 1992, 75, 995-1011.	1.0	52
58	Reduktive Co-Alkylierung von Heptamethyl-cobyrinat mit dem Methylthiomalonat (S)-Methyl-3-bromo-2-[(ethylthio) carbonyl]-2-methylpropanoat. <i>Helvetica Chimica Acta</i> , 1990, 73, 1659-1668.	1.0	13
59	Influence of the Axial Alkyl Ligand on the Reduction Potential of Alkylcob(III)alamins and Alkylcob(III)yrinates. <i>Helvetica Chimica Acta</i> , 1990, 73, 2225-2241.	1.0	33
60	Poly(vitamin B12)-modified carbon electrodes used as a preconcentration-type sensor for alkylating agents. <i>Analytical Chemistry</i> , 1990, 62, 759-766.	3.2	21
61	Asymmetric Catalysis by Vitamin B12. The isomerization of achiral epoxides to optically active allylic alcohols. <i>Helvetica Chimica Acta</i> , 1988, 71, 1073-1078.	1.0	43
62	Reductive Cleavage of the Co,Ca€B Bond of [(Methoxycarbonyl)methyl]cobalamin. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1988, 92, 1225-1231.	0.9	28
63	Modification of carbon electrodes by vitamin B12 -polymers. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1987, 8, 225-233.	0.6	6
64	Mechanism of the light-assisted nucleophilic acylation of activated olefins catalyzed by vitamin B12. <i>Organometallics</i> , 1987, 6, 1606-1613.	1.1	24
65	OberflÄchenmodifikation von Kohlenstoff-Elektroden durch Zweikomponenten-Polymere, aufgebaut aus Epoxidharzen und einem Derivat von Vitamin B12. <i>Helvetica Chimica Acta</i> , 1985, 68, 1301-1311.	1.0	32
66	Synthesis, Structure, and Redox Chemistry of a Vitamin-B12s-Related Macrocyclic Complex of Cobalt(I). <i>Helvetica Chimica Acta</i> , 1984, 67, 1801-1817.	1.0	12
67	Synthesis and reactions of porphine-type metal complexes. 8. Carbon-carbon bond formation catalyzed by vitamin B12 and a vitamin B12 model compound. Electrosynthesis of bicyclic ketones by 1,4 addition. <i>Journal of the American Chemical Society</i> , 1980, 102, 3642-3644.	6.6	105