

Markus D KÃrkÃs

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5310141/publications.pdf>

Version: 2024-02-01

65
papers

5,775
citations

172207

29
h-index

91712

69
g-index

76
all docs

76
docs citations

76
times ranked

6259
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Photosynthesis: Molecular Systems for Catalytic Water Oxidation. <i>Chemical Reviews</i> , 2014, 114, 11863-12001.	23.0	1,161
2	Photochemical Approaches to Complex Chemotypes: Applications in Natural Product Synthesis. <i>Chemical Reviews</i> , 2016, 116, 9683-9747.	23.0	792
3	Electrochemical strategies for C-H functionalization and C-N bond formation. <i>Chemical Society Reviews</i> , 2018, 47, 5786-5865.	18.7	736
4	Photochemical Generation of Nitrogen-Centered Amidyl, Hydrazonyl, and Imidyl Radicals: Methodology Developments and Catalytic Applications. <i>ACS Catalysis</i> , 2017, 7, 4999-5022.	5.5	334
5	Redox Catalysis Facilitates Lignin Depolymerization. <i>ACS Central Science</i> , 2017, 3, 621-628.	5.3	216
6	Photosensitized Water Oxidation by Use of a Bioinspired Manganese Catalyst. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11715-11718.	7.2	214
7	Water oxidation using earth-abundant transition metal catalysts: opportunities and challenges. <i>Dalton Transactions</i> , 2016, 45, 14421-14461.	1.6	211
8	Artificial Photosynthesis: From Nanosecond Electron Transfer to Catalytic Water Oxidation. <i>Accounts of Chemical Research</i> , 2014, 47, 100-111.	7.6	182
9	Transition-metal catalyzed valorization of lignin: the key to a sustainable carbon-neutral future. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1853-1914.	1.5	145
10	Organic Electrosynthesis: Applications in Complex Molecule Synthesis. <i>ChemElectroChem</i> , 2019, 6, 4067-4092.	1.7	143
11	Photocatalytic Oxidation of Lignin Model Systems by Merging Visible-Light Photoredox and Palladium Catalysis. <i>Organic Letters</i> , 2016, 18, 5166-5169.	2.4	107
12	Enchained by visible light-mediated photoredox catalysis. <i>Science</i> , 2015, 349, 1285-1286.	6.0	101
13	Selective C-O Bond Cleavage of Lignin Systems and Polymers Enabled by Sequential Palladium-Catalyzed Aerobic Oxidation and Visible-Light Photoredox Catalysis. <i>ACS Catalysis</i> , 2019, 9, 2252-2260.	5.5	95
14	Water Oxidation by Single-Site Ruthenium Complexes: Using Ligands as Redox and Proton Transfer Mediators. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11589-11593.	7.2	94
15	Highly Dispersed Palladium Nanoparticles on Mesocellular Foam: An Efficient and Recyclable Heterogeneous Catalyst for Alcohol Oxidation. <i>Chemistry - A European Journal</i> , 2012, 18, 12202-12206.	1.7	80
16	A Tailor-Made Molecular Ruthenium Catalyst for the Oxidation of Water and Its Deactivation through Poisoning by Carbon Monoxide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4189-4193.	7.2	69
17	Dinuclear manganese complexes for water oxidation: evaluation of electronic effects and catalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11950.	1.3	64
18	Recent Advances in Photoredox Catalysis Enabled Functionalization of α -Amino Acids and Peptides: Concepts, Strategies and Mechanisms. <i>Synthesis</i> , 2019, 51, 2759-2791.	1.2	61

#	ARTICLE	IF	CITATIONS
19	Photosystem II Like Water Oxidation Mechanism in a Bioinspired Tetranuclear Manganese Complex. <i>Inorganic Chemistry</i> , 2015, 54, 342-351.	1.9	56
20	Mesoporous Ruthenium Oxide: A Heterogeneous Catalyst for Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9651-9656.	3.2	42
21	Water oxidation catalyzed by molecular di- and nonanuclear Fe complexes: importance of a proper ligand framework. <i>Dalton Transactions</i> , 2016, 45, 13289-13293.	1.6	39
22	Light-Induced Water Oxidation by a Ru complex Containing a Bio-Inspired Ligand. <i>Chemistry - A European Journal</i> , 2011, 17, 7953-7959.	1.7	37
23	Catalytic Water Oxidation by a Molecular Ruthenium Complex: Unexpected Generation of a Single-Site Water Oxidation Catalyst. <i>Inorganic Chemistry</i> , 2015, 54, 4611-4620.	1.9	37
24	Lignin Hydrogenolysis: Improving Lignin Disassembly through Formaldehyde Stabilization. <i>ChemSusChem</i> , 2017, 10, 2111-2115.	3.6	36
25	The Impact of Ligand Carboxylates on Electrocatalyzed Water Oxidation. <i>Accounts of Chemical Research</i> , 2021, 54, 3326-3337.	7.6	35
26	Synthesis and Electron-Transfer Processes in a New Family of Ligands for Coupled Ru ^{II} Mn ^{II} Complexes. <i>ChemPlusChem</i> , 2014, 79, 936-950.	1.3	33
27	Efficient photochemical water oxidation by a dinuclear molecular ruthenium complex. <i>Chemical Communications</i> , 2015, 51, 1862-1865.	2.2	33
28	Organocatalytic Approach to Photochemical Lignin Fragmentation. <i>Organic Letters</i> , 2020, 22, 8082-8085.	2.4	33
29	Stereoselective synthesis of unnatural Î±-amino acid derivatives through photoredox catalysis. <i>Chemical Science</i> , 2021, 12, 5430-5437.	3.7	33
30	Molecular ruthenium water oxidation catalysts carrying non-innocent ligands: mechanistic insight through structure-activity relationships and quantum chemical calculations. <i>Catalysis Science and Technology</i> , 2016, 6, 1306-1319.	2.1	28
31	Synthesis and Characterization of Oligonuclear Ru, Co and Cu Oxidation Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5462-5470.	1.0	25
32	A Dinuclear Ruthenium-Based Water Oxidation Catalyst: Use of Non-Innocent Ligand Frameworks for Promoting Multi-Electron Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 10039-10048.	1.7	22
33	A ruthenium water oxidation catalyst based on a carboxamide ligand. <i>Dalton Transactions</i> , 2016, 45, 3272-3276.	1.6	21
34	Electrochemically Driven Water Oxidation by a Highly Active Ruthenium-Based Catalyst. <i>ChemSusChem</i> , 2019, 12, 2251-2262.	3.6	20
35	Switchable Copper-Catalyzed Approach to Benzodithiole, Benzothiaselenole, and Dibenzodithiocine Skeletons. <i>Organic Letters</i> , 2020, 22, 3454-3459.	2.4	20
36	Silver-Catalyzed Controlled Intermolecular Cross-Coupling of Silyl Enol Ethers: Scalable Access to 1,4-Diketones. <i>Organic Letters</i> , 2022, 24, 4513-4518.	2.4	18

#	ARTICLE	IF	CITATIONS
37	Silver-Mediated Synthesis of Substituted Benzofuran- and Indole-Pyrroles via Sequential Reaction of <i>ortho</i> -Alkynylaromatics with Methylene Isocyanides. <i>Journal of Organic Chemistry</i> , 2019, 84, 8998-9006.	1.7	17
38	Silver-Induced [3+2] Cycloaddition of Isocyanides with Acyl Chlorides: Regioselective Synthesis of 2,5-Disubstituted Oxazoles. <i>ChemCatChem</i> , 2019, 11, 4272-4275.	1.8	16
39	Well-Defined Palladium Nanoparticles Supported on Siliceous Mesocellular Foam as Heterogeneous Catalysts for the Oxidation of Water. <i>Chemistry - A European Journal</i> , 2015, 21, 5909-5915.	1.7	15
40	Chemical and Photochemical Water Oxidation Mediated by an Efficient Single-Site Ruthenium Catalyst. <i>ChemSusChem</i> , 2016, 9, 3448-3456.	3.6	15
41	On the mechanism of water oxidation catalyzed by a dinuclear ruthenium complex: a quantum chemical study. <i>Catalysis Science and Technology</i> , 2016, 6, 5031-5041.	2.1	15
42	Metal-Ligand Cooperation in Single-Site Ruthenium Water Oxidation Catalysts: A Combined Experimental and Quantum Chemical Approach. <i>Inorganic Chemistry</i> , 2018, 57, 10881-10895.	1.9	15
43	Silver-Assisted [3 + 2] Annulation of Nitrones with Isocyanides: Synthesis of 2,3,4-Trisubstituted 1,2,4-Oxadiazolidin-5-ones. <i>Journal of Organic Chemistry</i> , 2020, 85, 3560-3567.	1.7	15
44	Catalytic Water Oxidation by Ruthenium Complexes Containing Negatively Charged Ligand Frameworks. <i>Chemical Record</i> , 2016, 16, 940-963.	2.9	14
45	Substituent Effects in Molecular Ruthenium Water Oxidation Catalysts Based on Amide Ligands. <i>ChemCatChem</i> , 2017, 9, 1583-1587.	1.8	14
46	Silver-Promoted (4 + 1) Annulation of Isocyanoacetates with Alkylpyridinium Salts: Divergent Regioselective Synthesis of 1,2-Disubstituted Indolizines. <i>Organic Letters</i> , 2021, 23, 7555-7560.	2.4	14
47	Water oxidation mediated by ruthenium oxide nanoparticles supported on siliceous mesocellular foam. <i>Catalysis Science and Technology</i> , 2017, 7, 293-299.	2.1	13
48	Cooperative Silver- and Base-Catalyzed Diastereoselective Cycloaddition of Nitrones with Methylene Isocyanides: Access to α -imidazolinones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3475-3479.	1.2	10
49	Catalyst-solvent interactions in a dinuclear Ru-based water oxidation catalyst. <i>Dalton Transactions</i> , 2016, 45, 19024-19033.	1.6	9
50	Synthesis of Sulfonylated Heterocycles via Copper-Catalyzed Heteroaromatization/Sulfonyl Transfer of Propargylic Alcohols. <i>Chemistry - an Asian Journal</i> , 2021, 16, 30-33.	1.7	9
51	Photoredox-Enabled Decarboxylative Synthesis of Unnatural β -Amino Acids. <i>Synlett</i> , 2022, 33, 109-115.	1.0	9
52	Application and Mechanistic Studies of a Water Oxidation Catalyst in Alcohol Oxidation by Employing Oxygen-Transfer Reagents. <i>Chemistry - A European Journal</i> , 2012, 18, 16947-16954.	1.7	8
53	The Art of Splitting Water: Storing Energy in a Readily Available and Convenient Form. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2020-2024.	1.0	8
54	Modular synthesis of 3-substituted isocoumarins via silver-catalyzed aerobic oxidation/6-endo heterocyclization of <i>ortho</i> -alkynylbenzaldehydes. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6657-6664.	1.5	8

#	ARTICLE	IF	CITATIONS
55	Silver-catalyzed [3+1+1] Annulation of Nitrones with Isocyanoacetates as an Approach to 1,4,5-trisubstituted Imidazoles. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 964-968.	1.2	7
56	Ruthenium containing molecular electrocatalyst on glassy carbon for electrochemical water splitting. <i>Dalton Transactions</i> , 2022, 51, 7957-7965.	1.6	6
57	Closing the radical gap in chemical synthesis. <i>Science</i> , 2020, 368, 1312-1313.	6.0	5
58	Chemodivergent difunctionalization of alkenes through base-controlled radical relay. <i>CheM</i> , 2022, 8, 12-14.	5.8	5
59	Controlling Radical Relay Processes with Visible Light. <i>CheM</i> , 2021, 7, 283-285.	5.8	4
60	Electrifying catalytic aerobic oxidation. <i>Nature Catalysis</i> , 2021, 4, 96-97.	16.1	4
61	Copper-assisted Wittig-type olefination of aldehydes with <i>p</i> -toluenesulfonylmethyl isocyanide. <i>Organic Chemistry Frontiers</i> , 2022, 9, 4158-4163.	2.3	4
62	Divergent Synthesis of Natural Benzyl Salicylate and Benzyl Gentisate Glucosides. <i>Journal of Natural Products</i> , 2020, 83, 3173-3180.	1.5	3
63	Depolymerization of Lignin by Homogeneous Photocatalysis. <i>Springer Handbooks</i> , 2022, , 1537-1562.	0.3	1
64	Abstract: A Tailor-Made Molecular Ruthenium Catalyst for the Oxidation of Water and Its Deactivation through Poisoning by Carbon Monoxide (<i>Angew. Chem.</i> 15/2013). <i>Angewandte Chemie</i> , 2013, 125, 4370-4370.	1.6	0
65	Visible Light-Driven Water Oxidation Catalyzed by Ruthenium Complexes. , 0, , .		0