

Nathan D Schley

List of Publications by Year in descending order

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218677

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81
all docs

81
docs citations

81
times ranked

4588
citing authors

#	ARTICLE	IF	CITATIONS
1	Half-Sandwich Iridium Complexes for Homogeneous Water-Oxidation Catalysis. <i>Journal of the American Chemical Society</i> , 2010, 132, 16017-16029.	13.7	507
2	Nickel-Catalyzed Negishi Arylations of Propargylic Bromides: A Mechanistic Investigation. <i>Journal of the American Chemical Society</i> , 2014, 136, 16588-16593.	13.7	362
3	Iridium and Ruthenium Complexes with Chelating N-Heterocyclic Carbenes: Efficient Catalysts for Transfer Hydrogenation, β -Alkylation of Alcohols, and N-Alkylation of Amines. <i>Organometallics</i> , 2009, 28, 321-325.	2.3	352
4	Iridium-Catalyzed Hydrogenation of N-Heterocyclic Compounds under Mild Conditions by an Outer-Sphere Pathway. <i>Journal of the American Chemical Society</i> , 2011, 133, 7547-7562.	13.7	296
5	Distinguishing Homogeneous from Heterogeneous Catalysis in Electrode-Driven Water Oxidation with Molecular Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 10473-10481.	13.7	293
6	Anodic deposition of a robust iridium-based water-oxidation catalyst from organometallic precursors. <i>Chemical Science</i> , 2011, 2, 94-98.	7.4	219
7	Oxidative Synthesis of Amides and Pyrroles via Dehydrogenative Alcohol Oxidation by Ruthenium Diphosphine Diamine Complexes. <i>Organometallics</i> , 2011, 30, 4174-4179.	2.3	180
8	An Iridium(IV) Species, $[\text{Cp}^*\text{Ir}(\text{NHC})\text{Cl}]^+$, Related to a Water-Oxidation Catalyst. <i>Organometallics</i> , 2011, 30, 965-973.	2.3	127
9	Ultrafast photodriven intramolecular electron transfer from an iridium-based water-oxidation catalyst to perylene diimide derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15651-15656.	7.1	118
10	Cp^* Iridium Complexes Give Catalytic Alkane Hydroxylation with Retention of Stereochemistry. <i>Journal of the American Chemical Society</i> , 2010, 132, 12550-12551.	13.7	106
11	An Experimental/Theoretical Study of the Factors That Affect the Switch between Ruthenium-Catalyzed Dehydrogenative Amide Formation versus Amine Alkylation. <i>Organometallics</i> , 2010, 29, 6548-6558.	2.3	103
12	Isomeric Forms of Heavier Main Group Hydrides: Experimental and Theoretical Studies of the $[\text{Sn}(\text{Ar})\text{H}]_2$ (Ar = Terphenyl) System. <i>Journal of the American Chemical Society</i> , 2007, 129, 16197-16208.	13.7	102
13	Alcohol cross-coupling reactions catalyzed by Ru and Ir terpyridine complexes. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 4442.	2.8	91
14	Hydrogen-Transfer Catalysis with $\text{Cp}^*\text{Ir}^{\text{III}}$ Complexes: The Influence of the Ancillary Ligands. <i>ACS Catalysis</i> , 2014, 4, 99-108.	11.2	81
15	Comparison of Amorphous Iridium Water-Oxidation Electrocatalysts Prepared from Soluble Precursors. <i>Inorganic Chemistry</i> , 2012, 51, 7749-7763.	4.0	71
16	Yellow Circularly Polarized Luminescence from C_{11} -Symmetrical Copper(I) Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1228-1231.	13.8	66
17	Characterization of an Amorphous Iridium Water-Oxidation Catalyst Electrodeposited from Organometallic Precursors. <i>Inorganic Chemistry</i> , 2013, 52, 1860-1871.	4.0	65
18	Mechanochemically Driven Transformations in Organotin Chemistry: Stereochemical Rearrangement, Redox Behavior, and Dispersion-Stabilized Complexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 15934-15942.	13.7	58

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19	Catalytic, Enantioselective Synthesis of Cyclic Carbamates from Dialkyl Amines by CO ₂ -Capture: Discovery, Development, and Mechanism. <i>Journal of the American Chemical Society</i> , 2019, 141, 618-625.	13.7	53
20	Acyl Protection Strategy for Synthesis of a Protic NHC Complex via N-Acyl Methanolysis. <i>Organometallics</i> , 2010, 29, 5728-5731.	2.3	50
21	Thiocyanate Linkage Isomerism in a Ruthenium Polypyridyl Complex. <i>Inorganic Chemistry</i> , 2011, 50, 11938-11946.	4.0	50
22	Iridium-Catalyzed sp ³ C-H Borylation in Hydrocarbon Solvent Enabled by 2,2'-Dipyridylarylmethane Ligands. <i>Journal of the American Chemical Society</i> , 2020, 142, 6488-6492.	13.7	48
23	Strong Circularly Polarized Luminescence at 1550 nm from Enantiopure Molecular Erbium Complexes. <i>Journal of the American Chemical Society</i> , 2022, 144, 6148-6153.	13.7	48
24	Domain structure for an amorphous iridium-oxide water-oxidation catalyst characterized by X-ray pair distribution function analysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1814-1819.	2.8	39
25	High circularly polarized luminescence brightness from analogues of Shibasaki's lanthanide complexes. <i>Chemical Communications</i> , 2020, 56, 14813-14816.	4.1	36
26	Effects of aqueous buffers on electrocatalytic water oxidation with an iridium oxide material electrodeposited in thin layers from an organometallic precursor. <i>Dalton Transactions</i> , 2013, 42, 3617.	3.3	28
27	Circularly Polarized Luminescence from Enantiopure <i>C</i> ₂ -Symmetrical Tetrakis(2-pyridylmethyl)-1,2-diaminocyclohexane Lanthanide Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 7657-7665.	4.0	27
28	Yellow Circularly Polarized Luminescence from <i>C</i> ₁ -Symmetrical Copper(I) Complexes. <i>Angewandte Chemie</i> , 2020, 132, 1244-1247.	2.0	24
29	Characterization of an activated iridium water splitting catalyst using infrared photodissociation of H ₂ tagged ions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10109.	2.8	21
30	Mild, Reversible Reaction of Iridium(III) Amido Complexes with Carbon Dioxide. <i>Inorganic Chemistry</i> , 2012, 51, 9683-9693.	4.0	20
31	An η^3 -Bound Allyl Ligand on Magnesium in a Mechanochemically Generated Mg/K Allyl Complex. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9542-9548.	13.8	18
32	Symmetrical Hydrogen Bonds in Iridium(III) Alkoxides with Relevance to Outer Sphere Hydrogen Transfer. <i>Inorganic Chemistry</i> , 2012, 51, 12313-12323.	4.0	17
33	Electron-Rich CpIr(biphenyl-2,2'-diyl) Complexes with π -Accepting Carbon Donor Ligands. <i>Organometallics</i> , 2012, 31, 7158-7164.	2.3	17
34	Axially chiral dimeric Ir and Rh complexes bridged by flexible NHC ligands. <i>Inorganica Chimica Acta</i> , 2012, 380, 399-410.	2.4	17
35	Synthesis and Characterization of Heterobimetallic Iridium-Aluminum and Rhodium-Aluminum Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 1148-1157.	4.0	17
36	Synthesis of Enantiopure Lanthanide Complexes Supported by Hexadentate <i>N</i> ₄ <i>N</i> ₂ -Bis(methylbipyridyl)bipyridine, and Their Circularly Polarized Luminescence. <i>Inorganic Chemistry</i> , 2020, 59, 8498-8504.	4.0	16

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37	How important are the intermolecular hydrogen bonding interactions in methanol solvent for interpreting the chiroptical properties?. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 247, 119094.	3.9	15
38	Solvent-Dependent Sensitization of Ytterbium and Neodymium via an Intramolecular Excimer. <i>Inorganic Chemistry</i> , 2018, 57, 15399-15405.	4.0	14
39	Di(indenyl)beryllium. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21174-21178.	13.8	13
40	Hydrogen Activation and Hydrogenolysis Facilitated By Late-Transition-Metal α Aluminum Heterobimetallic Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 12635-12645.	4.0	12
41	Monometallic lanthanide salicylhydrazone complexes exhibiting strong near-infrared luminescence. <i>Chemical Communications</i> , 2019, 55, 8446-8449.	4.1	12
42	Substituent Effect on the Circularly Polarized Luminescence of $C_{1\text{-Symmetric}}$ Carbene α Copper(I) Complexes. <i>ChemPhotoChem</i> , 2021, 5, 902-905.	3.0	12
43	Reversible alkoxy carbene formation by C α H activation of ethers via discrete, isolable intermediates. <i>Chemical Communications</i> , 2017, 53, 2130-2133.	4.1	11
44	CO ₂ Capture by 2 α (Methylamino)pyridine Ligated Aluminum Alkyl Complexes. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2958-2967.	2.0	11
45	An η^3 α Bound Allyl Ligand on Magnesium in a Mechanochemically Generated Mg/K Allyl Complex. <i>Angewandte Chemie</i> , 2020, 132, 9629-9635.	2.0	10
46	Synthesis of bright water-soluble circularly polarized luminescence emitters as potential sensors. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1474-1480.	6.0	10
47	Algal Toxin Goniodomin A Binds Potassium Ion Selectively to Yield a Conformationally Altered Complex with Potential Biological Consequences. <i>Journal of Natural Products</i> , 2020, 83, 1069-1081.	3.0	9
48	Alkali-metal- and halide-free dinuclear mixed-valent samarium and europium complexes. <i>Dalton Transactions</i> , 2020, 49, 16059-16061.	3.3	9
49	Reversible C(sp ³)-Si Oxidative Addition of Unsupported Organosilanes: Effects of Silicon Substituents on Kinetics and Thermodynamics. <i>Journal of the American Chemical Society</i> , 2021, 143, 5534-5539.	13.7	9
50	Synthesis and Cytotoxic Evaluation of Arimetamycin A and Its Daunorubicin and Doxorubicin Hybrids. <i>ACS Central Science</i> , 2021, 7, 1327-1337.	11.3	9
51	Fluorine-induced diastereodivergence discovered in an equally rare enantioselective α -aza-Henry reaction. <i>Chemical Science</i> , 2022, 13, 2614-2623.	7.4	9
52	Absolute Configurations of Naturally Occurring [5]- and [3]-Ladderanoic Acids: Isolation, Chiroptical Spectroscopy, and Crystallography. <i>Journal of Natural Products</i> , 2018, 81, 2654-2666.	3.0	8
53	Formation of a Delocalized Iridium Benzylidene with Azaquinone Methide Character via Alkoxy carbene Cleavage. <i>Organometallics</i> , 2018, 37, 1825-1828.	2.3	8
54	Selective alkyl ether cleavage by cationic bis(phosphine)iridium complexes. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1744-1748.	2.8	8

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55	On Transannulation in Azaphosphatranes: Synthesis and Theoretical Analysis. <i>Inorganic Chemistry</i> , 2019, 58, 15983-15992.	4.0	7
56	Mechanochemical Formation, Solution Rearrangements, and Catalytic Behavior of a Polymorphic Ca/K Allyl Complex. <i>Chemistry - A European Journal</i> , 2021, 27, 8195-8202.	3.3	7
57	Ligand-Driven Advances in Iridium-Catalyzed sp ³ C-H Borylation: 2,2'-Dipyridylarylmethane. <i>Synlett</i> , 2021, 32, 845-850.	1.8	7
58	Circularly Polarized Luminescence from Uranyl Improves Resolution of Electronic Transitions. <i>Journal of the American Chemical Society</i> , 2022, 144, 10718-10722.	13.7	7
59	Evidence for Reversible Cyclometalation in Alkane Dehydrogenation and C-O Bond Cleavage at Iridium Bis(phosphine) Complexes. <i>Organometallics</i> , 2017, 36, 4355-4358.	2.3	6
60	Product inhibition in nucleophilic aromatic substitution through DPPPent-supported η^6 -arene catalysis. <i>Dalton Transactions</i> , 2020, 49, 10114-10119.	3.3	6
61	Synthesis, Structure, and Reactivity of Palladium Proazaphosphatrane Complexes Invoked in C-N Cross-Coupling. <i>Organometallics</i> , 2018, 37, 3073-3078.	2.3	5
62	Halide metathesis in overdrive: mechanochemical synthesis of a heterometallic group 1 allyl complex. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1856-1863.	2.2	5
63	Study and modular synthesis of unsymmetrical bis(phosphino)pyrrole ligands. <i>Dalton Transactions</i> , 2020, 49, 9957-9960.	3.3	5
64	Selectivity and Mechanism of Iridium-Catalyzed Cyclohexyl Methyl Ether Cleavage. <i>ACS Catalysis</i> , 2020, 10, 6450-6456.	11.2	5
65	Group-Transfer Reactions of a Cationic Iridium Alkoxycarbene Generated by Ether Dehydrogenation. <i>Inorganic Chemistry</i> , 2020, 59, 7143-7149.	4.0	5
66	Solid State Structures, Solution Behavior, and Luminescence of Simple Tetrakis(2-pyridylmethyl)ethylenediamine Lanthanide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3769-3775.	2.0	4
67	Synthesis and characterization of rhodium-aluminum heterobimetallic complexes tethered by a 1,3-bis(diphenylphosphino)-2-propanoxy group. <i>Dalton Transactions</i> , 2019, 48, 8782-8790.	3.3	4
68	Di(indenyl)beryllium. <i>Angewandte Chemie</i> , 2021, 133, 21344-21348.	2.0	4
69	Electronic structure analysis and reactivity of the bimetallic bis-titanocene vinylcarboxylate complex, [(Cp ₂ Ti) ₂ (O ₂ C ₃ TMS ₂)]. <i>Polyhedron</i> , 2021, 207, 115368.	2.2	4
70	Synthesis and Electronic Characterization of Iridium-Aluminum and Rhodium-Aluminum Heterobimetallic Complexes Bridged by 3-Oxypyridine and 4-Oxypyridine. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1192-1198.	2.0	3
71	Light-Promoted Transfer of an Iridium Hydride in Alkyl Ether Cleavage. <i>Organometallics</i> , 2021, 40, 3291-3297.	2.3	3
72	Rhodium and iridium NNO-Scorpionate complexes: synthesis, structure, and reactivity with aluminum alkyls. <i>Inorganica Chimica Acta</i> , 2020, 506, 119529.	2.4	2

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73	Selective demethylation of <i>O</i> -aryl glycosides by iridium-catalyzed hydrosilylation. Chemical Communications, 2021, 57, 5953-5956.	4.1	2
74	Pioneers and Influencers in Organometallic Chemistry: Professor Robert Crabtree's Storied Career via an Unusual Journey to the Ivy League. Organometallics, 2021, 40, 295-301.	2.3	1
75	Systematic evaluation of the electronic effect of aluminum-containing ligands in iridium-aluminum and rhodium-aluminum bimetallic complexes. Dalton Transactions, 2020, 49, 13029-13043.	3.3	0
76	Frontispiece: Di(indenyl)beryllium. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
77	Frontispiz: Di(indenyl)beryllium. Angewandte Chemie, 2021, 133, .	2.0	0