Nathan D Schley

List of Publications by Year
in descending order

77	4,024	218381 26	114278 63
papers	citations	h-index	g-index

81	81	81	4588
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Half-Sandwich Iridium Complexes for Homogeneous Water-Oxidation Catalysis. Journal of the American Chemical Society, 2010, 132, 16017-16029.	6.6	507
2	Nickel-Catalyzed Negishi Arylations of Propargylic Bromides: AÂMechanistic Investigation. Journal of the American Chemical Society, 2014, 136, 16588-16593.	6.6	362
3	Iridium and Ruthenium Complexes with Chelating N-Heterocyclic Carbenes: Efficient Catalysts for Transfer Hydrogenation, Î²-Alkylation of Alcohols, and N-Alkylation of Amines. Organometallics, 2009, 28, 321-325.	1.1	352
4	Iridium-Catalyzed Hydrogenation of N-Heterocyclic Compounds under Mild Conditions by an Outer-Sphere Pathway. Journal of the American Chemical Society, 2011, 133, 7547-7562.	6.6	296
5	Distinguishing Homogeneous from Heterogeneous Catalysis in Electrode-Driven Water Oxidation with Molecular Iridium Complexes. Journal of the American Chemical Society, 2011, 133, 10473-10481.	6.6	293
6	Anodic deposition of a robust iridium-based water-oxidation catalyst from organometallic precursors. Chemical Science, 2011, 2, 94-98.	3.7	219
7	Oxidative Synthesis of Amides and Pyrroles via Dehydrogenative Alcohol Oxidation by Ruthenium Diphosphine Diamine Complexes. Organometallics, 2011, 30, 4174-4179.	1.1	180
8	An Iridium(IV) Species, [Cp*Ir(NHC)Cl]⁺, Related to a Water-Oxidation Catalyst. Organometallics, 2011, 30, 965-973.	1.1	127
9	Ultrafast photodriven intramolecular electron transfer from an iridium-based water-oxidation catalyst to perylene diimide derivatives. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15651-15656.	3.3	118
10	Cp* Iridium Complexes Give Catalytic Alkane Hydroxylation with Retention of Stereochemistry. Journal of the American Chemical Society, 2010, 132, 12550-12551.	6.6	106
11	An Experimentalâ^'Theoretical Study of the Factors That Affect the Switch between Ruthenium-Catalyzed Dehydrogenative Amide Formation versus Amine Alkylation. Organometallics, 2010, 29, 6548-6558.	1.1	103
12	Isomeric Forms of Heavier Main Group Hydrides:â€‰ Experimental and Theoretical Studies of the [Sn(Ar)H]2 (Ar = Terphenyl) System. Journal of the American Chemical Society, 2007, 129, 16197-16208.	6.6	102
13	Alcohol cross-coupling reactions catalyzed by Ru and Ir terpyridine complexes. Organic and Biomolecular Chemistry, 2008, 6, 4442.	1.5	91
14	Hydrogen-Transfer Catalysis with Cp*Ir^{III} Complexes: The Influence of the Ancillary Ligands. ACS Catalysis, 2014, 4, 99-108.	5.5	81
15	Comparison of Amorphous Iridium Water-Oxidation Electrocatalysts Prepared from Soluble Precursors. Inorganic Chemistry, 2012, 51, 7749-7763.	1.9	71
16	Yellow Circularly Polarized Luminescence from C₁â€Symmetrical Copper(I) Complexes. Angewandte Chemie - International Edition, 2020, 59, 1228-1231.	7.2	66
17	Characterization of an Amorphous Iridium Water-Oxidation Catalyst Electrodeposited from Organometallic Precursors. Inorganic Chemistry, 2013, 52, 1860-1871.	1.9	65
18	Mechanochemically Driven Transformations in Organotin Chemistry: Stereochemical Rearrangement, Redox Behavior, and Dispersion-Stabilized Complexes. Journal of the American Chemical Society, 2018, 140, 15934-15942.	6.6	58

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19	Catalytic, Enantioselective Synthesis of Cyclic Carbamates from Dialkyl Amines by CO₂-Capture: Discovery, Development, and Mechanism. Journal of the American Chemical Society, 2019, 141, 618-625.	6.6	53
20	Acyl Protection Strategy for Synthesis of a Protic NHC Complex via N-Acyl Methanolysis. Organometallics, 2010, 29, 5728-5731.	1.1	50
21	Thiocyanate Linkage Isomerism in a Ruthenium Polypyridyl Complex. Inorganic Chemistry, 2011, 50, 11938-11946.	1.9	50
22	Iridium-Catalyzed sp³ Câ€“H Borylation in Hydrocarbon Solvent Enabled by 2,2â€²-Dipyridylarylmethane Ligands. Journal of the American Chemical Society, 2020, 142, 6488-6492.	6.6	48
23	Strong Circularly Polarized Luminescence at 1550 nm from Enantiopure Molecular Erbium Complexes. Journal of the American Chemical Society, 2022, 144, 6148-6153.	6.6	48
24	Domain structure for an amorphous iridium-oxide water-oxidation catalyst characterized by X-ray pair distribution function analysis. Physical Chemistry Chemical Physics, 2014, 16, 1814-1819.	1.3	39
25	High circularly polarized luminescence brightness from analogues of Shibasaki's lanthanide complexes. Chemical Communications, 2020, 56, 14813-14816.	2.2	36
26	Effects of aqueous buffers on electrocatalytic water oxidation with an iridium oxide material electrodeposited in thin layers from an organometallic precursor. Dalton Transactions, 2013, 42, 3617.	1.6	28
27	Circularly Polarized Luminescence from Enantiopure C₂-Symmetrical Tetrakis(2-pyridylmethyl)-1,2-diaminocyclohexane Lanthanide Complexes. Inorganic Chemistry, 2020, 59, 7657-7665.	1.9	27
28	Yellow Circularly Polarized Luminescence from C₁â€Symmetrical Copper(I) Complexes. Angewandte Chemie, 2020, 132, 1244-1247.	1.6	24
29	Characterization of an activated iridium water splitting catalyst using infrared photodissociation of H2 tagged ions. Physical Chemistry Chemical Physics, 2012, 14, 10109.	1.3	21
30	Mild, Reversible Reaction of Iridium(III) Amido Complexes with Carbon Dioxide. Inorganic Chemistry, 2012, 51, 9683-9693.	1.9	20
31	An Î·³â€Bound Allyl Ligand on Magnesium in a Mechanochemically Generated Mg/K Allyl Complex. Angewandte Chemie - International Edition, 2020, 59, 9542-9548.	7.2	18
32	Symmetrical Hydrogen Bonds in Iridium(III) Alkoxides with Relevance to Outer Sphere Hydrogen Transfer. Inorganic Chemistry, 2012, 51, 12313-12323.	1.9	17
33	Electron-Rich CpIr(biphenyl-2,2â€²-diyl) Complexes with Ï€-Accepting Carbon Donor Ligands. Organometallics, 2012, 31, 7158-7164.	1.1	17
34	Axially chiral dimeric Ir and Rh complexes bridged by flexible NHC ligands. Inorganica Chimica Acta, 2012, 380, 399-410.	1.2	17
35	Synthesis and Characterization of Heterobimetallic Iridiumâ€“Aluminum and Rhodiumâ€“Aluminum Complexes. Inorganic Chemistry, 2018, 57, 1148-1157.	1.9	17
36	Synthesis of Enantiopure Lanthanide Complexes Supported by Hexadentate N,Nâ€²-Bis(methylbipyridyl)bipyrrolidine and Their Circularly Polarized Luminescence. Inorganic Chemistry, 2020, 59, 8498-8504.	1.9	16

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37	How important are the intermolecular hydrogen bonding interactions in methanol solvent for interpreting the chiroptical properties?. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 247, 119094.	2.0	15
38	Solvent-Dependent Sensitization of Ytterbium and Neodymium via an Intramolecular Excimer. Inorganic Chemistry, 2018, 57, 15399-15405.	1.9	14
39	Di(indenyl)beryllium. Angewandte Chemie - International Edition, 2021, 60, 21174-21178.	7.2	13
40	Hydrogen Activation and Hydrogenolysis Facilitated By Late-Transition-Metalâ€“Aluminum Heterobimetallic Complexes. Inorganic Chemistry, 2019, 58, 12635-12645.	1.9	12
41	Monometallic lanthanide salicylhydrazone complexes exhibiting strong near-infrared luminescence. Chemical Communications, 2019, 55, 8446-8449.	2.2	12
42	Substituent Effect on the Circularly Polarized Luminescence of C₁â€Symmetric Carbeneâ€Copper(I) Complexes. ChemPhotoChem, 2021, 5, 902-905.	1.5	12
43	Reversible alkoxycarbene formation by Câ€“H activation of ethers via discrete, isolable intermediates. Chemical Communications, 2017, 53, 2130-2133.	2.2	11
44	CO₂ Capture by 2â€(Methylamino)pyridine Ligated Aluminum Alkyl Complexes. European Journal of Inorganic Chemistry, 2020, 2020, 2958-2967.	1.0	11
45	An Î· 3 â€Bound Allyl Ligand on Magnesium in a Mechanochemically Generated Mg/K Allyl Complex. Angewandte Chemie, 2020, 132, 9629-9635.	1.6	10
46	Synthesis of bright water-soluble circularly polarized luminescence emitters as potential sensors. Inorganic Chemistry Frontiers, 2022, 9, 1474-1480.	3.0	10
47	Algal Toxin Goniodomin A Binds Potassium Ion Selectively to Yield a Conformationally Altered Complex with Potential Biological Consequences. Journal of Natural Products, 2020, 83, 1069-1081.	1.5	9
48	Alkali-metal- and halide-free dinuclear mixed-valent samarium and europium complexes. Dalton Transactions, 2020, 49, 16059-16061.	1.6	9
49	Reversible C(sp³)-Si Oxidative Addition of Unsupported Organosilanes: Effects of Silicon Substituents on Kinetics and Thermodynamics. Journal of the American Chemical Society, 2021, 143, 5534-5539.	6.6	9
50	Synthesis and Cytotoxic Evaluation of Arimetamycin A and Its Daunorubicin and Doxorubicin Hybrids. ACS Central Science, 2021, 7, 1327-1337.	5.3	9
51	Fluorine-induced diastereodivergence discovered in an equally rare enantioselective syn-aza-Henry reaction. Chemical Science, 2022, 13, 2614-2623.	3.7	9
52	Absolute Configurations of Naturally Occurring [5]- and [3]-Ladderanoic Acids: Isolation, Chiroptical Spectroscopy, and Crystallography. Journal of Natural Products, 2018, 81, 2654-2666.	1.5	8
53	Formation of a Delocalized Iridium Benzylidene with Azaquinone Methide Character via Alkoxycarbene Cleavage. Organometallics, 2018, 37, 1825-1828.	1.1	8
54	Selective alkyl ether cleavage by cationic bis(phosphine)iridium complexes. Organic and Biomolecular Chemistry, 2019, 17, 1744-1748.	1.5	8

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55	On Transannulation in Azaphosphatranes: Synthesis and Theoretical Analysis. Inorganic Chemistry, 2019, 58, 15983-15992.	1.9	7
56	Mechanochemical Formation, Solution Rearrangements, and Catalytic Behavior of a Polymorphic Ca/K Allyl Complex. Chemistry - A European Journal, 2021, 27, 8195-8202.	1.7	7
57	Ligand-Driven Advances in Iridium-Catalyzed sp3 Câ€“H Borylation: 2,2â€²-Dipyridylarylmethane. Synlett, 2021, 32, 845-850.	1.0	7
58	Circularly Polarized Luminescence from Uranyl Improves Resolution of Electronic Transitions. Journal of the American Chemical Society, 2022, 144, 10718-10722.	6.6	7
59	Evidence for Reversible Cyclometalation in Alkane Dehydrogenation and Câ€“O Bond Cleavage at Iridium Bis(phosphine) Complexes. Organometallics, 2017, 36, 4355-4358.	1.1	6
60	Product inhibition in nucleophilic aromatic substitution through DPPPent-supported Ï€-arene catalysis. Dalton Transactions, 2020, 49, 10114-10119.	1.6	6
61	Synthesis, Structure, and Reactivity of Palladium Proazaphosphatrane Complexes Invoked in Câ€“N Cross-Coupling. Organometallics, 2018, 37, 3073-3078.	1.1	5
62	Halide metathesis in overdrive: mechanochemical synthesis of a heterometallic group 1 allyl complex. Beilstein Journal of Organic Chemistry, 2019, 15, 1856-1863.	1.3	5
63	Study and modular synthesis of unsymmetrical bis(phosphino)pyrrole ligands. Dalton Transactions, 2020, 49, 9957-9960.	1.6	5
64	Selectivity and Mechanism of Iridium-Catalyzed Cyclohexyl Methyl Ether Cleavage. ACS Catalysis, 2020, 10, 6450-6456.	5.5	5
65	Group-Transfer Reactions of a Cationic Iridium Alkoxycarbene Generated by Ether Dehydrogenation. Inorganic Chemistry, 2020, 59, 7143-7149.	1.9	5
66	Solid State Structures, Solution Behavior, and Luminescence of Simple Tetrakis(2â€pyridylmethyl)ethylenediamine Lanthanide Complexes. European Journal of Inorganic Chemistry, 2019, 2019, 3769-3775.	1.0	4
67	Synthesis and characterization of rhodiumâ€“aluminum heterobimetallic complexes tethered by a 1,3-bis(diphenylphosphino)-2-propanoxy group. Dalton Transactions, 2019, 48, 8782-8790.	1.6	4
68	Di(indenyl)beryllium. Angewandte Chemie, 2021, 133, 21344-21348.	1.6	4
69	Electronic structure analysis and reactivity of the bimetallic bis-titanocene vinylcarboxylate complex, [(Cp2Ti)2(O2C3TMS2)]. Polyhedron, 2021, 207, 115368.	1.0	4
70	Synthesis and Electronic Characterization of Iridiumâ€Aluminum and Rhodiumâ€Aluminum Heterobimetallic Complexes Bridged by 3â€Oxypyridine and 4â€Oxypyridine. European Journal of Inorganic Chemistry, 2020, 2020, 1192-1198.	1.0	3
71	Light-Promoted Transfer of an Iridium Hydride in Alkyl Ether Cleavage. Organometallics, 2021, 40, 3291-3297.	1.1	3
72	Rhodium and iridium NNO-Scorpionate complexes: synthesis, structure, and reactivity with aluminum alkyls. Inorganica Chimica Acta, 2020, 506, 119529.	1.2	2

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73	Selective demethylation of O-aryl glycosides by iridium-catalyzed hydrosilylation. Chemical Communications, 2021, 57, 5953-5956.	2.2	2
74	Pioneers and Influencers in Organometallic Chemistry: Professor Robert Crabtreeâ€™s Storied Career via an Unusual Journey to the Ivy League. Organometallics, 2021, 40, 295-301.	1.1	1
75	Systematic evaluation of the electronic effect of aluminum-containing ligands in iridiumâ€“aluminum and rhodiumâ€“aluminum bimetallic complexes. Dalton Transactions, 2020, 49, 13029-13043.	1.6	0
76	Frontispiece: Di(indenyl)beryllium. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
77	Frontispiz: Di(indenyl)beryllium. Angewandte Chemie, 2021, 133, .	1.6	0