

Robert A Flowers

List of Publications by Year in descending order

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3,989
citations

87843

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docs citations

79
times ranked

2229
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia Solvation vs Aqueous Solvation of Samarium Diodide. A Theoretical and Experimental Approach to Understanding Bond Activation Upon Coordination to Sm(II). <i>Journal of Organic Chemistry</i> , 2022, 87, 1689-1697.	1.7	11
2	Proton donor effects on the reactivity of SmI ₂ . Experimental and theoretical studies on methanol solvation vs. aqueous solvation. <i>Dalton Transactions</i> , 2020, 49, 7897-7902.	1.6	14
3	Titanocenes as Photoredox Catalysts Using Green-Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9355-9359.	7.2	62
4	Titanocenes as Photoredox Catalysts Using Green-Light Irradiation. <i>Angewandte Chemie</i> , 2020, 132, 9441-9445.	1.6	21
5	Coordination-induced O-H bond weakening in Sm(II)-water complexes. <i>Dalton Transactions</i> , 2019, 48, 16142-16147.	1.6	21
6	Experimental and Theoretical Studies on the Aqueous Solvation and Reactivity of SmCl ₂ and Comparison with SmBr ₂ and SmI ₂ . <i>Inorganic Chemistry</i> , 2019, 58, 13927-13932.	1.9	10
7	Mechanistic Study and Development of Catalytic Reactions of Sm(II). <i>Journal of the American Chemical Society</i> , 2019, 141, 3207-3216.	6.6	24
8	Contrasting Effect of Additives on Photoinduced Reactions of SmI ₂ . <i>Chemistry - A European Journal</i> , 2019, 25, 10499-10504.	1.7	5
9	Cp ₂ TiX Complexes for Sustainable Catalysis in Single-Electron Steps. <i>Chemistry - A European Journal</i> , 2018, 24, 6286-6286.	1.7	0
10	Cp ₂ TiX Complexes for Sustainable Catalysis in Single-Electron Steps. <i>Chemistry - A European Journal</i> , 2018, 24, 6371-6379.	1.7	42
11	Kinetic solvent effects in the reduction of alkyl halides by {Sm[N(SiMe ₃) ₂] ₂ (THF) ₂ }. <i>Journal of Organometallic Chemistry</i> , 2018, 857, 52-57.	0.8	5
12	Experimental and Theoretical Studies on the Implications of Halide-Dependent Aqueous Solvation of Sm(II). <i>Journal of the American Chemical Society</i> , 2018, 140, 16731-16739.	6.6	25
13	Interplay between Substrate and Proton Donor Coordination in Reductions of Carbonyls by SmI ₂ - Water Through Proton-Coupled Electron-Transfer. <i>Journal of the American Chemical Society</i> , 2018, 140, 15342-15352.	6.6	46
14	Secondary Amides as Hydrogen Atom Transfer Promoters for Reactions of Samarium Diodide. <i>Organic Letters</i> , 2017, 19, 290-293.	2.4	21
15	Aza versus Oxophilicity of SmI ₂ : A Break of a Paradigm. <i>Chemistry - A European Journal</i> , 2017, 23, 17070-17077.	1.7	18
16	Reversibility of Ketone Reduction by SmI ₂ - Water and Formation of Organosamarium Intermediates. <i>Organometallics</i> , 2017, 36, 4579-4583.	1.1	16
17	Catalytic carbonyl hydrosilylations via a titanocene borohydride-PMHS reagent system. <i>Catalysis Science and Technology</i> , 2017, 7, 3469-3473.	2.1	8
18	ADAM17 Inhibitors Attenuate Corneal Epithelial Detachment Induced by Mustard Exposure. , 2016, 57, 1687.		15

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19	High Affinity Proton Donors Promote Proton-Coupled Electron Transfer by Samarium Diodide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6033-6036.	7.2	40
20	Proton-Coupled Electron Transfer in the Reduction of Carbonyls by Samarium Diodide Water Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 8738-8741.	6.6	69
21	Hochaktive Titanocen-Katalysatoren für Epoxid-Hydrosilylierungen – Synthese, Theorie, Kinetik, EPR-Spektroskopie. <i>Angewandte Chemie</i> , 2016, 128, 7801-7805.	1.6	27
22	Reply to Varma: Elucidation of the signal origin for label-free, free-solution interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4931-2.	3.3	3
23	High Affinity Proton Donors Promote Proton-Coupled Electron Transfer by Samarium Diodide. <i>Angewandte Chemie</i> , 2016, 128, 6137-6140.	1.6	30
24	Highly Active Titanocene Catalysts for Epoxide Hydrosilylation: Synthesis, Theory, Kinetics, EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7671-7675.	7.2	57
25	Origin and prediction of free-solution interaction studies performed label-free. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1595-604.	3.3	35
26	Kationische Titanocen(III)-Komplexe für die Katalyse in Einzel-Elektronen-Schritten. <i>Angewandte Chemie</i> , 2015, 127, 7109-7112.	1.6	35
27	Mechanistic study of the samarium diiodide N,N-dimethyl-2-aminoethanol reducing system. <i>Tetrahedron Letters</i> , 2015, 56, 3212-3215.	0.7	7
28	Cationic Titanocene(III) Complexes for Catalysis in Single-Electron Steps. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7003-7006.	7.2	85
29	Mechanistic Study of Silver-Catalyzed Decarboxylative Fluorination. <i>Journal of Organic Chemistry</i> , 2015, 80, 5834-5841.	1.7	92
30	Proton-Coupled Electron Transfer in the Reduction of Arenes by Sm ₂ Water Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 11526-11531.	6.6	72
31	Allylsamarium Bromide-Mediated Cascade Cyclization of Homoallylic Esters. Synthesis of 2-(2-Hydroxyalkyl)cyclopropanols and 2-(2-Hydroxyethyl)bicyclo[2.1.1]hexan-1-ols. <i>Journal of Organic Chemistry</i> , 2015, 80, 52-61.	1.7	18
32	Mechanistic Study of the Titanocene(III)-Catalyzed Radical Arylation of Epoxides. <i>Chemistry - A European Journal</i> , 2015, 21, 280-289.	1.7	71
33	Ligand functionalization as a deactivation pathway in a fac-Ir(ppy) ₃ -mediated radical addition. <i>Chemical Science</i> , 2015, 6, 537-541.	3.7	98
34	Solvent-Dependent Substrate Reduction by {Sm[N(SiMe ₃) ₃] ₂ }(THF) ₂ . An Alternative Approach for Accelerating the Rate of Substrate Reduction by Sm(II). <i>Journal of Organic Chemistry</i> , 2014, 79, 9441-9443.	1.7	13
35	Substrate-Directable Electron Transfer Reactions. Dramatic Rate Enhancement in the Chemoselective Reduction of Cyclic Esters Using Sm ₂ H ₂ O: Mechanism, Scope, and Synthetic Utility. <i>Journal of the American Chemical Society</i> , 2013, 135, 15702-15705.	6.6	42
36	Back-Scattering Interferometry: An Ultrasensitive Method for the Unperturbed Detection of Acetylcholinesterase Inhibitor Interactions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11126-11130.	7.2	12

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37	Study on the coupling of acyclic esters with alkenes – the synthesis of 2-(2-hydroxyalkyl)cyclopropanols via cascade cyclization using allylsamarium bromide. <i>Chemical Communications</i> , 2012, 48, 11026.	2.2	17
38	Catalytic, Atom-Economical Radical Arylation of Epoxides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4739-4742.	7.2	124
39	Investigation of anticholinergic and non-steroidal anti-inflammatory prodrugs which reduce chemically induced skin inflammation. <i>Journal of Applied Toxicology</i> , 2012, 32, 135-141.	1.4	23
40	Catalytic Ni(II) in Reactions of Sm ₂ : Sm(II)- or Ni(0)-Based Chemistry?. <i>Journal of the American Chemical Society</i> , 2011, 133, 10655-10661.	6.6	33
41	Back-Scattering Interferometry: A Versatile Platform for the Study of Free-Solution versus Surface-Immobilized Hybridization. <i>Chemistry - an Asian Journal</i> , 2011, 6, 70-73.	1.7	9
42	Uncovering the Mechanistic Role of HMPA in the Samarium Barbier Reaction. <i>Journal of the American Chemical Society</i> , 2010, 132, 17396-17398.	6.6	65
43	Dynamic Ligand Exchange in Reactions of Samarium Diiodide. <i>Organic Letters</i> , 2010, 12, 4140-4143.	2.4	68
44	Studies on the Mechanism, Selectivity, and Synthetic Utility of Lactone Reduction Using Sm ₂ and H ₂ O. <i>Journal of the American Chemical Society</i> , 2009, 131, 15467-15473.	6.6	81
45	Generation of SmIII Reductants Using High Intensity Ultrasound. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 5015-5019.	1.0	20
46	Mechanistic Study of Samarium Diiodide-HMPA Initiated 5-exo-trig Ketyl-Olefin Coupling: The Role of HMPA in Post-Electron Transfer Steps. <i>Journal of the American Chemical Society</i> , 2008, 130, 7228-7229.	6.6	71
47	Mechanistic Studies on the Roles of Cosolvents and Additives in Samarium(II)-Based Reductions. <i>Synlett</i> , 2008, 2008, 1427-1439.	1.0	162
48	Solvation-Controlled Luminescence of SmIII Complexes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1145-1148.	7.2	25
49	Mechanistic Studies of Proton-Donor Coordination to Samarium Diiodide. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8160-8163.	7.2	41
50	Photoinduced Electron Transfer Reactions by SmI ₂ in THF: Luminescence Quenching Studies and Mechanistic Investigations. <i>Chemistry - A European Journal</i> , 2005, 11, 3105-3112.	1.7	33
51	Exploring SmBr ₂ -, SmI ₂ -, and YbI ₂ -Mediated Reactions Assisted by Microwave Irradiation. <i>Chemistry - A European Journal</i> , 2005, 11, 3279-3284.	1.7	23
52	Mechanistic Impact of Water Addition to SmI ₂ : Consequences in the Ground and Transition State. <i>Journal of the American Chemical Society</i> , 2005, 127, 18093-18099.	6.6	88
53	Reduction of β -Hydroxyketones by SmI ₂ /H ₂ O/Et ₃ N. <i>Organic Letters</i> , 2005, 7, 119-122.	2.4	47
54	The Role of Proton Donors in SmI ₂ -Mediated Ketone Reduction: A New Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 2004, 126, 44-45.	6.6	129

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55	Solvent-Dependent Diastereoselectivities in Reductions of β^2 -Hydroxyketones by SmI ₂ . <i>Organic Letters</i> , 2004, 6, 2685-2688.	2.4	47
56	The Role of Ligand Displacement in Sm(II)-HMPA-Based Reductions. <i>Journal of the American Chemical Society</i> , 2004, 126, 6891-6894.	6.6	46
57	Rapid SmI ₂ -Mediated Reductions of Alkyl Halides and Electrochemical Properties of SmI ₂ /H ₂ O/Amine. <i>Journal of Organic Chemistry</i> , 2003, 68, 4870-4875.	1.7	71
58	Investigation of the [Sm{N(SiMe ₃) ₂ }] ₂ Reducing System in THF. Rate and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2002, 124, 14663-14667.	6.6	43
59	Mechanistic Study of β^2 -Substituent Effects on the Mechanism of Ketone Reduction by SmI ₂ . <i>Journal of the American Chemical Society</i> , 2002, 124, 6357-6361.	6.6	55
60	Reduction of Ketones and Alkyl Iodides by SmI ₂ and Sm(II)-HMPA Complexes. Rate and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2002, 124, 6895-6899.	6.6	99
61	Influence of HMPA on Reducing Power and Reactivity of SmBr ₂ . <i>Organic Letters</i> , 2001, 3, 2321-2324.	2.4	59
62	Human RAD52 Protein Has Extreme Thermal Stability. <i>Biochemistry</i> , 2001, 40, 8557-8562.	1.2	15
63	Protein renaturation by the liquid organic salt ethylammonium nitrate. <i>Protein Science</i> , 2000, 9, 2001-2008.	3.1	233
64	Reactions of SmI ₂ with Alkyl Halides and Ketones: An Inner-Sphere vs Outer-Sphere Electron Transfer in Reactions of Sm(II) Reductants. <i>Journal of the American Chemical Society</i> , 2000, 122, 7718-7722.	6.6	170
65	A Highly Stable, Six-Hydrogen-Bonded Molecular Duplex. <i>Journal of the American Chemical Society</i> , 2000, 122, 2635-2644.	6.6	206
66	Guest and Subunit Exchange in Self-Assembled Ionophores. <i>Organic Letters</i> , 2000, 2, 1665-1668.	2.4	23
67	Structure and Energetics of the Samarium Diiodide-HMPA Complex in Tetrahydrofuran. <i>Journal of Organic Chemistry</i> , 1999, 64, 5251-5255.	1.7	67
68	Mechanism of Reduction of Primary Alkyl Radicals by SmI ₂ -HMPA. <i>Organic Letters</i> , 1999, 1, 2133-2135.	2.4	63
69	The effect of cosolvent on the reducing power of SmI ₂ in tetrahydrofuran. <i>Tetrahedron Letters</i> , 1998, 39, 4429-4432.	0.7	103
70	Structural Rearrangement of Strained Coals. <i>Energy & Fuels</i> , 1997, 11, 998-1002.	2.5	130
71	The effect of lithium bromide and lithium chloride on the reactivity of SmI ₂ in THF. <i>Tetrahedron Letters</i> , 1997, 38, 8157-8158.	0.7	88
72	Electrochemical investigation of the reducing power of SmI ₂ in THF and the effect of HMPA cosolvent. <i>Tetrahedron Letters</i> , 1997, 38, 1137-1140.	0.7	180