

# Kevin M Smith

## List of Publications by Year in descending order

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46  
papers

1,284  
citations

361413

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345221

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46  
all docs

46  
docs citations

46  
times ranked

1110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the reactivity of transition metal complexes involving multiple spin states. <i>Coordination Chemistry Reviews</i> , 2003, 238-239, 347-361.	18.8	297
2	Homolytic Bond Strengths and Formation Rates in Half-Sandwich Chromium Alkyl Complexes: Relevance for Controlled Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6069-6072.	13.8	62
3	A Computational Study of Ethylene C-H Bond Activation by [Cp*Ir(PR <sub>3</sub> )]. <i>Chemistry - A European Journal</i> , 2001, 7, 1679-1690.	3.3	60
4	Ligand dissociation accelerated by spin state change: locating the minimum energy crossing point for phosphine exchange in CpMoCl <sub>2</sub> (PR <sub>3</sub> ) <sub>2</sub> complexes. <i>New Journal of Chemistry</i> , 2000, 24, 77-80.	2.8	58
5	Cyclopentadienyl Chromium $\hat{\text{I}}^2$ -Diketimate Complexes: Initiators, Ligand Steric Effects, and Deactivation Processes in the Controlled Radical Polymerization of Vinyl Acetate. <i>Organometallics</i> , 2010, 29, 167-176.	2.3	52
6	Controlled Radical Polymerization of Vinyl Acetate with Cyclopentadienyl Chromium $\hat{\text{I}}^2$ -Diketimate Complexes: ATRP vs OMRP. <i>Organometallics</i> , 2010, 29, 3125-3132.	2.3	51
7	Organometallic-Mediated Radical Polymerization: Developing Well-Defined Complexes for Reversible Transition Metal-Alkyl Bond Homolysis. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 10-16.	2.2	49
8	Paramagnetic organometallic Cr(II)/Cr(III) redox-active catalysts. <i>Coordination Chemistry Reviews</i> , 2006, 250, 1023-1031.	18.8	45
9	Single Electron Transfer Reactions in the Synthetic Organometallic Chemistry of First-Row Transition Metals. <i>Organometallics</i> , 2005, 24, 778-784.	2.3	40
10	Synthesis and Reactivity of Chromium Cyclopentadienyl $\hat{\text{I}}^2$ -Diketimate Compounds. <i>Organometallics</i> , 2004, 23, 1487-1489.	2.3	37
11	Exploring Chromium(III)-Alkyl Bond Homolysis with CpCr[(ArNCMe) <sub>2</sub> CH](R) Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 17325-17334.	13.7	34
12	Influence of redox non-innocent phenylenediamido ligands on chromium imido hydrogen-atom abstraction reactivity. <i>Chemical Communications</i> , 2014, 50, 9958-9960.	4.1	33
13	A Computational Study of Two-State Conformational Changes in 16-Electron [CpW(NO)(L)] Complexes (L=PH <sub>3</sub> , CO, CH <sub>2</sub> , HCCH, H <sub>2</sub> CCH <sub>2</sub> ). <i>Chemistry - A European Journal</i> , 1999, 5, 1598-1608.	3.3	25
14	Chromium(III) and chromium(IV) bis(trimethylsilyl)amido complexes as ethylene polymerisation catalysts. <i>Dalton Transactions</i> , 2004, , 3431.	3.3	24
15	Recent Advances in Chromium Catalysts for Olefin Polymerization. <i>Current Organic Chemistry</i> , 2006, 10, 955-963.	1.6	24
16	Synthesis and Characterization of 17-Valence-Electron [CpCr(NO)X <sub>2</sub> ]- Anions: Oxidatively Induced Loss of the Nitrosyl Ligand. <i>Journal of the American Chemical Society</i> , 1997, 119, 3513-3522.	13.7	23
17	Amide-Stabilized, Diamagnetic Chromium(II) Nitrosyl Complexes. <i>Organometallics</i> , 1999, 18, 1994-2004.	2.3	23
18	Reactivity Consequences of Steric Reduction in Cyclopentadienyl Chromium $\hat{\text{I}}^2$ -Diketimate Complexes. <i>Organometallics</i> , 2009, 28, 6798-6806.	2.3	23

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19	Density Functional Study of Spin State in CpM(NO)X <sub>2</sub> (M = Mo, Cr; X = Cl, NH <sub>2</sub> , CH <sub>3</sub> ): A Spectrochemical and Nephelauxetic Effects in Organometallic Compounds. <i>Organometallics</i> , 1998, 17, 615-622.	2.3	22
20	Spin State and Ligand Dissociation in [CpCoL <sub>2</sub> ] Complexes (L = PH <sub>3</sub> , H <sub>2</sub> C=CH <sub>2</sub> ): A Computational Study. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 877-880.	2.0	21
21	Cyclopentadienyl mesityl complexes of chromium(ii) and chromium(iii). <i>Dalton Transactions</i> , 2011, 40, 337-339.	3.3	21
22	Chromium-Catalyzed Radical Cyclization of Bromo and Chloro Acetals. <i>Organometallics</i> , 2010, 29, 6639-6641.	2.3	20
23	Reactivity of Cr(III) $\eta^5$ -Oxo Compounds: Catalyst Regeneration and Atom Transfer Processes. <i>Inorganic Chemistry</i> , 2012, 51, 688-700.	4.0	19
24	Theoretical Studies of the Reactivity of Cyclopentadienyl Nitrosyl Alkyl Species of Molybdenum and Tungsten. <i>Organometallics</i> , 2000, 19, 2858-2867.	2.3	17
25	Cyclopentadienyl benzamidinato chromium complexes as models for alkyl halide activation by chromium reagents. Electronic supplementary information (ESI) available: experimental and computational details. See <a href="http://www.rsc.org/suppdata/cc/b2/b207710h/">http://www.rsc.org/suppdata/cc/b2/b207710h/</a> . <i>Chemical Communications</i> , 2002, 2914-2915.	4.1	17
26	A Density Functional Study of Open-Shell Cyclopentadienyl Molybdenum(II) Complexes. A Comparison of Stabilizing Factors: Spin-Pairing, Mo-X Bonding, and Release of Steric Pressure. <i>Inorganic Chemistry</i> , 2000, 39, 517-524.	4.0	16
27	Electronic Effects in the Oxidative Addition of Iodomethane with Mixed-Aryl $\eta^2$ -Diketiminato Chromium Complexes. <i>Organometallics</i> , 2011, 30, 603-610.	2.3	16
28	Controlling Secondary Alkyl Radicals: Ligand Effects in Chromium-Catalyzed C-P Bond Formation. <i>Organometallics</i> , 2012, 31, 7324-7327.	2.3	16
29	Cr(NAr)(O)(NPr <sub>2</sub> )(Ar): a strongly-bent monoimido complex resulting from nitrosyl ligand cleavage. <i>Chemical Communications</i> , 2000, 1809-1810.	4.1	15
30	Ambient-Temperature Carbon-Oxygen Bond Cleavage of an $\eta^5$ -Aryloxy Ketone with Cp <sub>2</sub> Ti(BTMSA) and Selective Protonolysis of the Resulting Ti-OR Bonds. <i>Organometallics</i> , 2012, 31, 7625-7628.	2.3	15
31	Direct Synthesis of Ligand-Based Radicals by the Addition of Bipyridine to Chromium(II) Compounds. <i>Inorganic Chemistry</i> , 2013, 52, 2271-2273.	4.0	14
32	Cyclopentadienyl chromium diimine and pyridine-imine complexes: ligand-based radicals and metal-based redox chemistry. <i>Dalton Transactions</i> , 2012, 41, 7920.	3.3	13
33	Cyclopentadienyl nitrosyl compounds of chromium: aqueous solution chemistry, $\pi$ bonding and nitric oxide loss. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, 3269-3276.	1.1	12
34	Synthesis of Novel Diamagnetic Chromium(II) Alkyl Complexes. <i>Organometallics</i> , 1997, 16, 3569-3571.	2.3	11
35	Oxidatively Induced Reductive Elimination from a Chromium(III) Bis(aryl) Complex. <i>Organometallics</i> , 2012, 31, 6681-6689.	2.3	10
36	Photolytic Reactivity of Organometallic Chromium Bipyridine Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 9611-9621.	4.0	9

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37	Synthesis of chromium(III) bis(benzamidinate) complexes via single electron oxidation. Journal of Organometallic Chemistry, 2007, 692, 3183-3190.	1.8	8
38	Metal-based chirality and spin state change in 16-electron CpML <sub>2</sub> systems: a computational study of CpW(NO)(PH <sub>3</sub> ). Chemical Communications, 1998, , 1903-1904.	4.1	7
39	Effects of pi-bonding on stability and reactivity in. Chemistry - A European Journal, 2000, 6, 1525-1529.	3.3	6
40	Pairing Energy Effects in Cyanide Complexes of CpCrIII. European Journal of Inorganic Chemistry, 1999, 1999, 2343-2346.	2.0	5
41	Effects of Ï€-Bonding on Stability and Reactivity in [CpCr(NO)] Complexes. Chemistry - A European Journal, 2000, 6, 1525-1529.	3.3	5
42	Synthesis and characterization of [Mo(Ï¼-EPh)(CO) <sub>3</sub> (CH <sub>3</sub> CN)] <sub>2</sub> (E=Se, Te), including the X-ray structure of the tellurium derivative. Inorganica Chimica Acta, 2000, 299, 118-122.	2.4	4
43	Synthesis and X-ray crystal structure of Cr(NR <sub>2</sub> ) <sub>3</sub> (R=CH(Me)Ph). Canadian Journal of Chemistry, 2004, 82, 1788-1790.	1.1	3
44	Cyclopentyl{2-[(2,6-diisopropylphenyl)amino]-4-[(2,6-diisopropylphenyl)imino]pent-2-enato-Ï²N,Nâ€²}(tetrahydrofuran-Ï²O)magnesium. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m408-m409.	0.2	2
45	Single Electron Transfer Reactions in the Synthetic Organometallic Chemistry of First-Row Transition Metals.. ChemInform, 2005, 36, no.	0.0	0
46	Synthesis, characterization, and properties of some cyclopentadienyl molybdenum nitrosyl benzyl complexes. Canadian Journal of Chemistry, 2001, 79, 502-509.	1.1	0