

# Richard A Andersen

## List of Publications by Year in descending order

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2185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-13 NMR Chemical Shift: A Descriptor for Electronic Structure and Reactivity of Organometallic Compounds. <i>Accounts of Chemical Research</i> , 2019, 52, 2278-2289.	15.6	80
2	Understanding the Multiconfigurational Ground and Excited States in Lanthanide Tetrakis Bipyridine Complexes from Experimental and CASSCF Computational Studies. <i>Inorganic Chemistry</i> , 2019, 58, 12083-12098.	4.0	18
3	Metal Olefin Complexes: Revisiting the Dewar-Chatt-Duncanson Model and Deriving Reactivity Patterns from Carbon-13 NMR Chemical Shift. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900151.	1.6	22
4	Bis(fulvalene)dimetal Complexes Revisited: Synthesis and Properties of $[M_2(2,2,4,4\text{-}(Me)_3C_{10}H_4)_2]$ (M = Mg, Fe, Mn). <i>Organometallics</i> , 2019, 38, 3680-3687.		3
5	$\sigma$ -Bond Character in Metal-Alkyl Compounds for C-H Activation: How, When, and Why?. <i>Journal of the American Chemical Society</i> , 2019, 141, 648-656.	13.7	46
6	Silica-Supported Pentamethylcyclopentadienyl Ytterbium(II) and Samarium(II) Sites: Ultrahigh Molecular Weight Polyethylene without Co-Catalyst. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3431-3434.	13.8	19
7	Silica-Supported Pentamethylcyclopentadienyl Ytterbium(II) and Samarium(II) Sites: Ultrahigh Molecular Weight Polyethylene without Co-Catalyst. <i>Angewandte Chemie</i> , 2018, 130, 3489-3492.	2.0	5
8	Metal alkyls programmed to generate metal alkylidenes by $\beta$ -H abstraction: prognosis from NMR chemical shift. <i>Chemical Science</i> , 2018, 9, 1912-1918.	7.4	47
9	Cerium Tetrakis(tropolonate) and Cerium Tetrakis(acetylacetonate) Are Not Diamagnetic but Temperature-Independent Paramagnets. <i>Inorganic Chemistry</i> , 2018, 57, 7290-7298.	4.0	35
10	NMR chemical shift analysis decodes olefin oligo- and polymerization activity of d <sup>0</sup> group 4 metal complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5867-E5876.	7.1	40
11	Metathesis Activity Encoded in the Metallacyclobutane Carbon-13 NMR Chemical Shift Tensors. <i>ACS Central Science</i> , 2017, 3, 759-768.	11.3	84
12	Synthesis and Reactions of $[Cp^*_2Yb(\eta^4\text{-Me})]$ and $[Cp^*_2Yb(\eta^4\text{-Me})(Me)]$ and Related $Yb_2$ (II, III) and $Yb_2$ (III), <i>Tj</i> 1000 017 BT / Over		
13	Experimental and DFT Computational Study of $\eta^2$ -Me and $\eta^2$ -H Elimination Coupled with Proton Transfer: From Amides to Enamides in $Cp^*_2MX$ (M = La, Ce). <i>Organometallics</i> , 2017, 36, 97-108.	2.3	11
14	Evidence for the Existence of Group 3 Terminal Methylidene Complexes. <i>Organometallics</i> , 2017, 36, 80-88.	2.3	43
15	Synthesis and Physical Properties of Pentamethylmanganocene, $(C_5Me_5)Mn(C_5H_5)$ , and the Inclusion Compounds $[(C_5Me_5)_2Yb]_2[(C_5H_5)_2M]$ (Where M = V, Cr, Fe, Co). <i>Organometallics</i> , 2016, 35, 3488-3497.	2.3	8
16	The Nature of Secondary Interactions at Electrophilic Metal Sites of Molecular and Silica-Supported Organolutetium Complexes from Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 3831-3843.	13.7	35
17	Can a pentamethylcyclopentadienyl ligand act as a proton-relay in f-element chemistry? Insights from a joint experimental/theoretical study. <i>Dalton Transactions</i> , 2015, 44, 2575-2587.	3.3	25
18	C-H Bond Activations by Monoanionic, PNP-Supported Scandium Dialkyl Complexes. <i>Organometallics</i> , 2015, 34, 4647-4655.	2.3	42

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19	Synthesis and Characterization of Rare Earth Siloxide Complexes, $M[OSi(OtBu)_3]_3(L)_x$ where L is $HOsi(OtBu)_3$ and $x = 0$ or 1. <i>Organometallics</i> , 2015, 34, 2271-2277.	2.3	25
20	Spin equilibria and thermodynamic constants for $(C_5H_4R)_2Mn$ , $R = H$ or Me, in solid solutions of diamagnetic diluents. <i>Journal of Organometallic Chemistry</i> , 2015, 776, 17-22.	1.8	8
21	Carbon-Hydrogen Bond Breaking and Making in the Open-Shell Singlet Molecule $Cp^*_2Yb(4,7-Me_2phen)$ . <i>Organometallics</i> , 2014, 33, 6819-6829.	2.3	23
22	A new X-ray crystal structure (100 K) of $Yb[N(SiMe_3)_2]_2[Me_2PCH_2CH_2PMe_2]$ . <i>Inorganica Chimica Acta</i> , 2014, 422, 202-205.	2.4	5
23	Reversible Sigma-C Bond Formation Between Phenanthroline Ligands Activated by $(C_5Me_5)_2Yb$ . <i>Journal of the American Chemical Society</i> , 2014, 136, 8626-8641.	13.7	75
24	Near-IR Two Photon Microscopy Imaging of Silica Nanoparticles Functionalized with Isolated Sensitized Yb(III) Centers. <i>Chemistry of Materials</i> , 2014, 26, 1062-1073.	6.7	61
25	Influence of the Torsion Angle in 3,3'-Dimethyl-2,2'-bipyridine on the Intermediate Valence of Yb in $(C_5Me_5)_2Yb(3,3'-Me_2-bipy)$ . <i>Organometallics</i> , 2013, 32, 5305-5312.	2.3	43
26	Thermal Dihydrogen Elimination from $Cp^*_2Yb(4,5-diazafluorene)$ . <i>Organometallics</i> , 2013, 32, 1150-1158.	2.3	42
27	Cleaving bonds in $CH_3OSO_2CF_3$ with $[1,2,4-(Me_3C)_3C_5H_2]_2CeH$ ; an experimental and computational study. <i>New Journal of Chemistry</i> , 2013, 37, 132-142.	2.8	14
28	Intermediate-Valence Tautomerism in Decamethyl ytterbocene Complexes of Methyl-Substituted Bipyridines. <i>Journal of the American Chemical Society</i> , 2010, 132, 17537-17549.	13.7	92
29	Splitting a C-O bond in dialkylethers with bis(1,2,4-tri-tert-butylcyclopentadienyl)cerium hydride does not occur by a $\sigma$ -bond metathesis pathway: a combined experimental and DFT computational study. <i>New Journal of Chemistry</i> , 2010, 34, 2189.	2.8	11
30	Spin Equilibria in Monomeric Manganocenes: Solid-State Magnetic and EXAFS Studies. <i>Organometallics</i> , 2009, 28, 2005-2019.	2.3	52
31	Cerocene Revisited: The Electronic Structure of and Interconversion Between $Ce_2(C_8H_8)_3$ and $Ce(C_8H_8)_2$ . <i>Organometallics</i> , 2009, 28, 698-707.	2.3	127
32	Decamethyl ytterbocene Complexes of Bipyridines and Diazabutadienes: Multiconfigurational Ground States and Open-Shell Singlet Formation. <i>Journal of the American Chemical Society</i> , 2009, 131, 6480-6491.	13.7	112
33	Coordination of 1,4-Diazabutadiene Ligands to Decamethyl ytterbocene: Additional Examples of Spin Coupling in Ytterbocene Complexes. <i>Organometallics</i> , 2007, 26, 2296-2307.	2.3	61
34	Lewis Base Adducts of Uranium Triiodide and Tris[Bis(trimethylsilyl)amido]uranium. <i>Inorganic Syntheses</i> , 2007, , 307-315.	0.3	32
35	Weak paramagnetism in compounds of the type $Cp^*_2Yb(bipy)$ . <i>New Journal of Chemistry</i> , 2006, 30, 238.	2.8	59
36	Synthesis and magnetic properties of cerium macrocyclic complexes with tetramethyldibenzotetraaza[14]annulene, tmtaaH <sub>2</sub> . <i>New Journal of Chemistry</i> , 2006, 30, 1065.	2.8	33

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37	Coordination Complexes of Decamethylytterbocene with 4,4'-Disubstituted Bipyridines: An Experimental Study of Spin Coupling in Lanthanide Complexes. <i>Organometallics</i> , 2006, 25, 3228-3237.	2.3	58
38	Coordination complexes of bivalent ansa-ytterbocenes: synthesis, structure and comparison with related unbridged ytterbocenes and ansa-ferrocenes. <i>New Journal of Chemistry</i> , 2005, 29, 919.	2.8	17
39	Synthetic, Reactivity, and Structural Studies on Half-Sandwich ( $\eta^5$ -C <sub>5</sub> Me <sub>5</sub> )Be and Related Compounds: Halide, Alkyl, and Iminoacyl Derivatives. <i>Chemistry - A European Journal</i> , 2003, 9, 4462-4471.	3.3	39
40	Coordination of 2,2'-Bipyridyl and 1,10-Phenanthroline to Substituted Ytterbocenes: An Experimental Investigation of Spin Coupling in Lanthanide Complexes. <i>Organometallics</i> , 2002, 21, 460-472.	2.3	171
41	Solution Infrared Spectroscopic Studies on Equilibrium Reactions of CO with the Decamethylmetallocenes Cp* <sub>2</sub> MII, Where MII = Mg, Ca, Sr, Ba, Sm, Eu, Yb. <i>Organometallics</i> , 2002, 21, 3100-3107.	2.3	41
42	Solid-State Structures of Base-Free Ytterbocenes and Inclusion Compounds of Bis(pentamethylcyclopentadienyl)ytterbium with Neutral Carboranes and Toluene: The Role of Intermolecular Contacts. <i>Organometallics</i> , 2000, 19, 781-789.	2.3	80
43	Carbon Monoxide and Isocyanide Complexes of Trivalent Uranium Metallocenes. <i>Chemistry - A European Journal</i> , 1999, 5, 3000-3009.	3.3	128
44	Application of the E-C Approach to Understanding the Bond Energies Thermodynamics of Late-Metal Amido, Aryloxo and Alkoxo Complexes: An Alternative to π-dπ Repulsion. <i>Comments on Inorganic Chemistry</i> , 1999, 21, 115-129.	5.2	103
45	Synthesis of an $\eta^2$ -N <sub>2</sub> -Titanium Diazoalkane Complex with Both Imido- and Metal Carbene-Like Reactivity Patterns. <i>Journal of the American Chemical Society</i> , 1998, 120, 6316-6328.	13.7	62
46	Synthesis and Structure of Cp* <sub>2</sub> TiH, Cp* <sub>2</sub> TiH <sub>2</sub> Li(tmed), and [Cp* <sub>2</sub> TiOLi(THF)] <sub>2</sub> . <i>Organometallics</i> , 1998, 17, 5240-5247.	2.3	56
47	Reactivity of a Terminal Ti(IV) Imido Complex toward Alkenes and Alkynes: Cycloaddition vs C-H Activation. <i>Journal of the American Chemical Society</i> , 1998, 120, 13405-13414.	13.7	164
48	Cycloaddition and Nucleophilic Substitution Reactions of the Monomeric Titanocene Sulfido Complex ( $\eta^5$ -C <sub>5</sub> Me <sub>5</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>5</sub> N)TiS. <i>Journal of the American Chemical Society</i> , 1998, 120, 7825-7834.	13.7	31
49	Cyclopentadienyl and Imide Ligand Transfer from Zirconium to Iridium: Can Early Transition Metal Imido Compounds Be Used as Imide Transfer Reagents?. <i>Organometallics</i> , 1998, 17, 433-437.	2.3	24
50	C-C and C-H Bond Activation at Ruthenium(II): The Stepwise Degradation of a Neopentyl Ligand to a Trimethylenemethane Ligand. <i>Journal of the American Chemical Society</i> , 1997, 119, 11244-11254.	13.7	67
51	X-ray Crystal Structures of Cp*Ni(PEt <sub>3</sub> )X [X = Br, O(p-C <sub>6</sub> H <sub>4</sub> Me), NH(p-C <sub>6</sub> H <sub>4</sub> Me), S(p-C <sub>6</sub> H <sub>4</sub> Me), OCH <sub>3</sub> , CH <sub>2</sub> C <sub>6</sub> H <sub>5</sub> , Me, H, PEt <sub>3</sub> ]. Understanding Distortions and Trans Influences in Cyclopentadienyl Complexes. <i>Journal of the American Chemical Society</i> , 1997, 119, 12815-12823.	13.7	65
52	Synthesis, Characterization, Isomerization, and Reactivity of Dimeric Cyclopentadienylnickel Amido Complexes. <i>Journal of the American Chemical Society</i> , 1996, 118, 1092-1104.	13.7	53
53	Koordination von CO an das Erdalkalimetallocen [(Me <sub>5</sub> C <sub>5</sub> ) <sub>2</sub> Ca]. <i>Angewandte Chemie</i> , 1995, 107, 877-879.	2.0	16
54	Coordination of CO to the Alkaline Earth Metallocene [(Me <sub>5</sub> C <sub>5</sub> ) <sub>2</sub> Ca]. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 791-793.	4.4	51

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55	A general synthesis and crystal structure of [(Me <sub>3</sub> C) <sub>2</sub> C <sub>5</sub> H <sub>3</sub> ] <sub>3</sub> Ce. <i>Journal of Organometallic Chemistry</i> , 1995, 501, 271-276.	1.8	36
56	Solution-State Interactions of Bis(pentamethylcyclopentadienyl)ytterbium, Cp* <sub>2</sub> Yb, with Trialkylphosphines and R <sub>3</sub> PX Complexes (X = O, NR', CHR''). <i>Organometallics</i> , 1995, 14, 4308-4318.	2.3	20
57	Interactions of cis-P <sub>2</sub> PtX <sub>2</sub> Complexes (X = H, Me) with Bis(pentamethylcyclopentadienyl)ytterbium. <i>Journal of the American Chemical Society</i> , 1995, 117, 6027-6040.	13.7	39
58	New Synthetic Routes to Cyclopentadienyluranium(IV) Fluorides. <i>ACS Symposium Series</i> , 1994, , 383-391.	0.5	5
59	[Cp* <sub>2</sub> Ru(acac)] Is Not a Coordinatively Unsaturated, Stable 16-Valence-Electron Complex. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1294-1294.	4.4	16
60	Preparation of Yb[N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> [AlMe <sub>3</sub> ] <sub>2</sub> . A complex with four ytterbium-methyl-aluminum interactions. <i>Organometallics</i> , 1985, 4, 205-206.	2.3	81
61	Divalent lanthanide chemistry. Preparation and crystal structures of sodium tris[bis(trimethylsilyl)amido]europate(II) and sodium tris[bis(trimethylsilyl)amido]ytterbate(II), NaM[N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>3</sub> . <i>Inorganic Chemistry</i> , 1984, 23, 2271-2276.	4.0	150
62	Tertiary phosphine complexes of the f-block metals. Preparation of pentamethylcyclopentadienyl-tertiary phosphine complexes of ytterbium(II), ytterbium(III) and europium(II). Crystal structure of Yb(Me <sub>5</sub> C <sub>5</sub> ) <sub>2</sub> Cl(Me <sub>2</sub> PCH <sub>2</sub> PMe <sub>2</sub> ). <i>Inorganic Chemistry</i> , 1983, 22, 856-859.	4.0	65
63	Tertiary phosphine complexes of the f-block metals. Crystal structure of Yb[N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> [Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ]: evidence for a ytterbium-γ-carbon interaction. <i>Journal of the American Chemical Society</i> , 1982, 104, 3725-3727.	13.7	142
64	Tertiary phosphine derivatives of the f-block metals. Preparation of X <sub>4</sub> M(Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ) <sub>2</sub> , where X is halide, methyl or phenoxy and M is thorium or uranium. Crystal structure of tetraphenoxybis[bis(1,2-dimethylphosphino)ethane]uranium(IV). <i>Journal of the American Chemical Society</i> , 1981, 103, 7792-7794.	13.7	78
65	Divalent lanthanide chemistry. Bis (pentamethylcyclopentadienyl) europium(II) and -ytterbium(II)		