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The importance of questioning scientific assumptions:  
some lessons from f element chemistry

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#	Paper	IF	Citations
223	Divalent Lanthanides in Solution. <b>2004</b> , 1-6		
222	Boratabenzene Derivatives of Divalent Samarium: Syntheses, Structures and Catalytic Reactivities of (C <sub>5</sub> H <sub>5</sub> BXPh <sub>2</sub> ) <sub>2</sub> Sm(THF) <sub>2</sub> (X = N, P). <i>Organometallics</i> , <b>2007</b> , 26, 6519-6521	3.8	39
221	Polyoxometalates with internal cavities: redox activity, basicity, and cation encapsulation in [X <sub>n</sub> +P <sub>5</sub> W <sub>30</sub> O <sub>110</sub> ](15-n)- Preyssler complexes, with X = Na <sup>+</sup> , Ca <sup>2+</sup> , Y <sup>3+</sup> , La <sup>3+</sup> , Ce <sup>3+</sup> , and Th <sup>4+</sup> . <b>2007</b> , 129, 12244-53		140
220	Steric modulation of coordination number and reactivity in the synthesis of lanthanoid(III) formamidinates. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 8092-110	4.8	77
219	A bond-valence investigation of two series of isostructural lanthanide compounds. <b>2008</b> , 64, 299-304		9
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217	Remarkable stability of metallocenes with superbulky ligands: spontaneous reduction of Sm(III) to Sm(II). <b>2008</b> , 47, 2121-6		90
216	Superbulky ligands and trapped electrons: new perspectives in divalent lanthanide chemistry. <b>2008</b> , 47, 4962-4		39
215	An ansa-heteroborabenzene divalent lanthanide amide through C-H bond cleavage. <b>2008</b> , 47, 9944-7		46
214	Lanthanum Does Form Stable Molecular Compounds in the +2 Oxidation State. <b>2008</b> , 120, 1510-1513		42
213	Remarkable Stability of Metallocenes with Superbulky Ligands: Spontaneous Reduction of Sm <sup>III</sup> to Sm <sup>II</sup> . <b>2008</b> , 120, 2151-2156		23
212	Großvolumige Liganden und eingefangene Elektronen: Perspektiven für die Chemie zweiwertiger Lanthanide. <b>2008</b> , 120, 5040-5042		16
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210	Anhydrous scandium, yttrium, lanthanide and actinide halide complexes with neutral oxygen and nitrogen donor ligands. <b>2008</b> , 252, 1996-2025		70
209	Solid state and solution properties of lanthanide(III) complexes of a tetraaminodiphenolate macrocyclic ligand. X-ray structure, <sup>1</sup> H NMR and luminescence spectral studies. <b>2008</b> , 891, 408-419		10
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204	The role of the 5f orbitals in bonding, aromaticity, and reactivity of planar isocyclic and heterocyclic uranium clusters. <b>2008</b> , 130, 9144-55		61
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190	A Chlorine-Centered Cluster of Composition [(Me <sub>3</sub> Si) <sub>2</sub> NC(NCy) <sub>2</sub> SmCl <sub>2</sub> ] <sub>5</sub> (thf) <sub>2</sub> and a Comparison with the Heavier Ytterbium Congener [(Me <sub>3</sub> Si) <sub>2</sub> NC(NCy) <sub>2</sub> YbCl <sub>2</sub> ] <sub>2</sub> (LiCl) <sub>2</sub> (thf) <sub>4</sub> . <b>2009</b> , 2009, 4864-4869		8
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137	Varying the Lewis base coordination of the Y2N2 core in the reduced dinitrogen complexes [(Me3Si)2N]2(L)Y2(η:η-N2) (L = benzonitrile, pyridines, triphenylphosphine oxide, and trimethylamine N-oxide). <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 7867-74	5.1	11
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118	Cyclometalative C-H bond activation in rare earth and actinide metal complexes. <b>2013</b> , 42, 1947-60		118
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106	Determination of the effective redox potentials of SmI <sup>2</sup> /SmBr <sup>2</sup> /SmCl <sup>2</sup> and their complexes with water by reduction of aromatic hydrocarbons. Reduction of anthracene and stilbene by samarium(II) iodide-water complex. <b>2014</b> , 79, 2522-37		66
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98	The chemistry of rare earth metals, compounds, and corrosion inhibitors. <b>2014</b> , 1-37		8
97	Efficient Electrosynthesis of SmCl <sub>2</sub> , SmBr <sub>2</sub> , and Sm(OTf) <sub>2</sub> from a Sacrificial Samarium Anode: Effect of nBu <sub>4</sub> NPF <sub>6</sub> on the Reactivity. <i>Organometallics</i> , <b>2014</b> , 33, 4625-4628	3.8	12
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95	Structural Diversity in Cyanido Thorocene Complexes. <i>Organometallics</i> , <b>2014</b> , 33, 2088-2098	3.8	23
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90	The Renaissance of Non-Aqueous Uranium Chemistry. <b>2015</b> , 54, 8604-41		297
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88	A structural investigation of heteroleptic lanthanide substituted cyclopentadienyl complexes. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7633-7639	3.6	8
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86	Structural, spectroscopic, and theoretical comparison of traditional vs recently discovered Ln(2+) ions in the [K(2.2.2-cryptand)][(C <sub>5</sub> H <sub>4</sub> SiMe <sub>3</sub> ) <sub>3</sub> Ln] complexes: the variable nature of Dy(2+) and Nd(2+). <b>2015</b> , 137, 369-82		146
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84	Theoretical Treatment of the Redox Chemistry of Low Valent Lanthanide and Actinide Complexes. <b>2015</b> , 343-373		2
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79	Homoleptic Divalent Dialkyl Lanthanide-Catalyzed Cross-Dehydrocoupling of Silanes and Amines. <i>Organometallics</i> , <b>2016</b> , 35, 1674-1683	3.8	37
78	Aqueous Lanthanide Chemistry in Asymmetric Catalysis and Magnetic Resonance Imaging. <b>2016</b> , 27, 1310-1317		12
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73	Electron transfer in tetramethylbiphosphinine complexes of Cp*2Yb and Cp*2Sm. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 6643-6649	3.6	6
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71	Tris(pyrazolyl)methanide Complexes of Trivalent Rare-Earth Metals. <i>Organometallics</i> , <b>2016</b> , 35, 1565-1572	3.8	17
70	Emergence of comparable covalency in isostructural cerium(iv)- and uranium(iv)-carbon multiple bonds. <b>2016</b> , 7, 3286-3297		76
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66	Using Functionalized Silyl Ligands To Suppress Solvent Coordination to Silyl Lanthanide(II) Complexes. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 5328-5341	5.1	17
65	Mechanistic Study of SmI/HO and SmI/Amine/HO-Promoted Chemoselective Reduction of Aromatic Amides (Primary, Secondary, Tertiary) to Alcohols via Aminoketyl Radicals. <b>2017</b> , 82, 6528-6540		21
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59	Biosketch for Professor William J. Evans. <b>2018</b> , 857, 2-4		
58	Crystal Structures of Chromium Cyclopentadienyl Catecholate Complexes. <b>2018</b> , 59, 1405-1411		3
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51	Anion Control of Lanthanoenediyne Cyclization. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 9225-9235	5.1	1
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47	Divalent Thulium Crown Ether Complexes with Field-Induced Slow Magnetic Relaxation. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 2872-2880	5.1	20
46	Well-Defined Scandacyclopropenes: Synthesis, Structure, and Reactivity. <b>2019</b> , 141, 20547-20555		17
45	Divalent Ytterbium Complex-Catalyzed Homo- and Cross-Coupling of Primary Arylsilanes. <b>2019</b> , 141, 138-142		33

44	Synthesis, spectroscopic properties and biological activity of new Cu(I) N-Heterocyclic carbene complexes. <b>2019</b> , 1181, 209-219		11
43	Lanthanides with Unusually Low Oxidation States in the PrB and PrB Boride Clusters. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 411-418	5.1	23
42	f-Element Half-Sandwich Complexes: A Tetrasilylcyclobutadienyl-Uranium(IV)-Tris(tetrahydroborate) Anion Pianostool Complex. <b>2020</b> , 59, 295-299		20
41	Divalent Ytterbium Iodide Supported by $\eta^5$ -Diketiminato Based Tridentate Ligand: Synthesis, Structure and Small Molecule Activation <b>2020</b> , 38, 247-253		7
40	Recent Advances in Rare-Earth Polynictides. <b>2020</b> , 38, 295-304		5
39	f-Element Half-Sandwich Complexes: A Tetrasilylcyclobutadienyl-Uranium(IV)-Tris(tetrahydroborate) Anion Pianostool Complex. <b>2020</b> , 132, 301-305		4
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34	The Emergence of Actinide Cyclobutadienyl Chemistry. <b>2020</b> , 2020, 2851-2861		6
33	Heteroleptic actinocenes: a thorium(IV)-cyclobutadienyl-cyclooctatetraenyl-di-potassium-cyclooctatetraenyl complex. <b>2020</b> , 11, 6789-6794 <sup>7</sup>		
32	Synthesis and Characterization of an Oxo-Centered Homotrimetallic Uranium(IV)-Cyclobutadienyl Dianion Complex. <i>Organometallics</i> , <b>2020</b> , 39, 1824-1831	3.8	7
31	Synthesis of Symmetrically Substituted $\eta^5$ -Diketimine (Vinamidine) Derivatives from Vinamidinium Salts Using Amine Exchange. <b>2020</b> , 52, 242-247		
30	Optical detection and recovery of Yb(III) from waste sample using novel sensor ensemble nanomaterials. <b>2021</b> , 162, 105868		24
29	Ln(II) alkyl complexes: from elusive exotics to catalytic applications.		4
28	Main Group Redox Catalysis of Organopnictogens: Vertical Periodic Trends and Emerging Opportunities in Group 15. <b>2021</b> , 143, 1699-1721		40
27	P-C Bond Cleavage Induced Ni(II) Complexes Bearing Rare-Earth-Metal-Based Metalloligand and Reactivities toward Isonitrile, Nitrile, and Epoxide. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 3249-3258	5.1	6

26	f-Block Phospholyl and Arsolyl Chemistry. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 6645-6665	4.8	8
25	Selective Coupling of Lanthanide Metallacycloprenes and Nitriles via Azametallacyclopentadiene and $\beta$ Pyrimidine Metallacycle. <b>2021</b> , 143, 9151-9161		5
24	Three-Coordinate Pd(0) with Rare-Earth Metalloligands: Synergetic CO Activation and Double P-C Bond Cleavage-Formation Reactions. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 9688-9699	5.1	4
23	Formation and structural characterization of a europium(II) mono(scorpionate) complex and a sterically crowded pyraza-bole. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2017</b> , 73, 1921-1925	0.7	2
22	Insertion Chemistry of Lutetacyclopropene toward Unsaturated C-O/C-N Bonds. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 16498-16504	4.8	1
21	Synthesis of a Heteroleptic Pentamethylcyclopentadienyl Yttrium(II) Complex, [K(2.2.2-Cryptand)]{(C5Me5)2YII[N(SiMe3)2]}, and Its C $\equiv$ H Bond Activated Y(III) Derivative. <i>Organometallics</i> ,	3.8	2
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19	Cyclopentadienyls and Phospholyls of the Group 3 Metals and Lanthanides. <b>2021</b> ,		1
18	Catalytic Hydroboration of Esters by Versatile Thorium and Uranium Amide Complexes. <i>ACS Catalysis</i> , <b>2022</b> , 12, 273-284	13.1	0
17	Synthesis and reactivity of a $\beta$ diketiminate SmII complex. <i>Australian Journal of Chemistry</i> , <b>2022</b> ,	1.2	0
16	Synthesis, structure, and bonding of spiro rare-earth metallacyclopent-3-enes via the reduction of metallacyclopentadienes. <i>Cell Reports Physical Science</i> , <b>2022</b> , 100831	6.1	1
15	Recent Progress in Rare-earth Metal-catalyzed sp <sup>2</sup> and sp <sup>3</sup> C $\equiv$ H Functionalization to Construct C $\equiv$ C and C $\equiv$ Neteroelement Bonds.. <i>Organic Chemistry Frontiers</i> ,	5.2	4
14	Phosphinoamido Ligand Supported Heterobimetallic Rare-Earth Metal-Palladium Complexes: Versatile Structures and Redox Reactivities. <i>Dalton Transactions</i> ,	4.3	2
13	$\beta$ Carbazolyl supported bis(alkyl) complexes of Sc, Y and La for $\beta$ olefin polymerization and hydrogenation. <i>Dalton Transactions</i> ,	4.3	0
12	On the usability of salt metathesis reactions for the synthesis of sterically crowded tris-formamidinate Ln(III) complexes: success and limits. Spontaneous reduction of Eu(III) to Eu(II).. <i>New Journal of Chemistry</i> ,	3.6	
11	Cyclooctatetraenide-based single-ion magnets featuring bulky cyclopentadienyl ligand. <b>2022</b> , 13, 10574-10580		1
10	Base-Free Alkoxide Dysprosium(III) Complexes with an Unusual Tetraphenylborate Coordination: Study of the Slow Relaxation of the Magnetization.		0
9	Reactivity of a $\beta$ diketiminate ytterbium(II) hydride with cyclopentadiene derivatives. <b>2022</b> , 75, 1954-1966		0

8	Diversified two-electron reduction for trivalent scandium complexes with arene ligands.	1
7	Assessing sustainable Lutetium(III) ions adsorption and recovery using novel composite hybrid nanomaterials. <b>2023</b> , 1276, 134795	7
6	Divalent Lanthanide Metallocene Complexes with a Linear Coordination Geometry and Pronounced 6s/5d Orbital Mixing. <b>2022</b> , 144, 22193-22201	0
5	Helicate tris(aryl)carbinolates bearing pendant NR <sub>2</sub> donors as a new family of supporting ligands for the synthesis of Sc <sup>3+</sup> alkyl complexes. <b>2022</b> , 32, 777-779	0
4	The heavy lanthanide of Thulium(III) separation and recovery using specific ligand-based facial composite adsorbent. <b>2023</b> , 667, 131415	0
3	Dinitrogen Complexes of Cobalt(I) Supported by Rare-Earth Metal-Based Metalloligands. <b>2023</b> , 62, 3836-3846	0
2	Selective Cleavage of the Strong or Weak C-C Bonds in Biphenylene Enabled by Rare-Earth Metals. <b>2023</b> , 145, 6633-6638	0
1	Synthesis, Structure, and Reactivity of Rare-Earth Metal Carbonyl Complexes. <b>2023</b> , 42, 581-587	0