

# Robert F Higgins

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

677  
citations

623734

14  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

939  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncovering the Roles of Oxygen in Cr(III) Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 5451-5464.	13.7	131
2	A Synthetically Tunable System To Control MLCT Excited-State Lifetimes and Spin States in Iron(II) Polypyridines. <i>Journal of the American Chemical Society</i> , 2017, 139, 4493-4505.	13.7	100
3	Chromium photocatalysis: accessing structural complements to Diels-Alder adducts with electron-deficient dienophiles. <i>Chemical Science</i> , 2017, 8, 654-660.	7.4	76
4	Polyoxovanadate-Alkoxide Clusters as a Redox Reservoir for Iron. <i>Inorganic Chemistry</i> , 2017, 56, 7065-7080.	4.0	48
5	Bimetallic iron-iron and iron-zinc complexes of the redox-active ONO pincer ligand. <i>Chemical Science</i> , 2016, 7, 1594-1599.	7.4	27
6	A family of related Co(II) terpyridine compounds exhibiting field induced single-molecule magnet properties. <i>Polyhedron</i> , 2018, 143, 193-200.	2.2	26
7	Elucidating the Mechanism of Uranium Mediated Diazene N-N Bond Cleavage. <i>Inorganic Chemistry</i> , 2016, 55, 11854-11866.	4.0	25
8	Detection of an Energy-Transfer Pathway in Cr-Photoredox Catalysis. <i>ACS Catalysis</i> , 2018, 8, 9216-9225.	11.2	22
9	Magnetic Field Directed Rare-Earth Separations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1851-1856.	13.8	21
10	Naked eye detection of cyanide in water with Co(II) bis(terpyridine) complexes. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 325-329.	7.8	20
11	Using Redox-Active Ligands to Generate Actinide Ligand Radical Species. <i>Inorganic Chemistry</i> , 2021, 60, 15242-15252.	4.0	19
12	Screening of molecular lanthanide corrosion inhibitors by a high-throughput method. <i>Corrosion Science</i> , 2020, 165, 108377.	6.6	16
13	Lewis Base Mediated Polymorph Selectivity of Pyrite $\text{CuSe}_2$ through Atom Transfer in Solid-State Metathesis. <i>Chemistry of Materials</i> , 2016, 28, 1854-1860.	6.7	15
14	Redox-Driven Chelation and Kinetic Separation of Select Rare Earths Using a Tripodal Nitroxide Proligand. <i>Inorganic Chemistry</i> , 2020, 59, 172-178.	4.0	15
15	Mononuclear to Polynuclear $\text{U}^{\text{IV}}$ Structural Units: Effects of Reaction Conditions on Urate Phase Formation. <i>Chemistry - A European Journal</i> , 2020, 26, 5872-5886.	3.3	15
16	Investigation of the Electronic Structure of Aryl-Bridged Dinuclear U(III) and U(IV) Compounds. <i>Organometallics</i> , 2019, 38, 1031-1040.	2.3	14
17	Elucidation of Thorium Redox-Active Ligand Complexes: Evidence for a Thorium-Tri(radical) Species. <i>Inorganic Chemistry</i> , 2021, 60, 14302-14309.	4.0	14
18	Mechanistic Insights into Concerted C-C Reductive Elimination from Homoleptic Uranium Alkyls. <i>Organometallics</i> , 2017, 36, 3491-3497.	2.3	13

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19	Evidence for Reagent-Induced Spin-State Switching in Tripodal Fe(II) Iminopyridine Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 7785-7793.	4.0	13
20	A reduction series of neodymium supported by pyridine(diimine) ligands. <i>Dalton Transactions</i> , 2019, 48, 8021-8025.	3.3	13
21	Understanding Molecular Factors That Determine Performance in the Rare Earth (TriNOx) Separations System. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14786-14794.	6.7	11
22	Cerium(iv) complexes with guanidinate ligands: intense colors and anomalous electronic structures. <i>Chemical Science</i> , 2021, 12, 3558-3567.	7.4	10
23	Magnetic Field Directed Rare-Earth Separations. <i>Angewandte Chemie</i> , 2020, 132, 1867-1872.	2.0	7
24	Excited-state effects on magnetic properties of U(III) and U(IV) pyrazolylborate complexes. <i>Chemical Communications</i> , 2019, 55, 10611-10614.	4.1	5