

Jeffrey D Rinehart

List of Publications by Year in descending order

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44
papers

6,353
citations

236925

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docs citations

44
times ranked

4580
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting single-ion anisotropy in the design of f-element single-molecule magnets. <i>Chemical Science</i> , 2011, 2, 2078.	7.4	1,757
2	Strong exchange and magnetic blocking in N ₂ O ^{•-} -radical-bridged lanthanide complexes. <i>Nature Chemistry</i> , 2011, 3, 538-542.	13.6	987
3	A N ₂ O ^{•-} Radical-Bridged Terbium Complex Exhibiting Magnetic Hysteresis at 14 K. <i>Journal of the American Chemical Society</i> , 2011, 133, 14236-14239.	13.7	905
4	Slow Magnetic Relaxation in a Family of Trigonal Pyramidal Iron(II) Pyrrolide Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 18115-18126.	13.7	317
5	Slow Magnetic Relaxation in a Trigonal Prismatic Uranium(III) Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 12558-12559.	13.7	270
6	Observation of a Secondary Slow Relaxation Process for the Field-Induced Single-Molecule Magnet U(H ₂ BPz) ₂ . <i>Journal of the American Chemical Society</i> , 2010, 132, 7572-7573.	13.7	241
7	Dilution-Induced Slow Magnetic Relaxation and Anomalous Hysteresis in Trigonal Prismatic Dysprosium(III) and Uranium(III) Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 8484-8489.	4.0	185
8	Unraveling the Structure and Function of Melanin through Synthesis. <i>Journal of the American Chemical Society</i> , 2021, 143, 2622-2637.	13.7	174
9	Photochemical Electronic Doping of Colloidal CdSe Nanocrystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 18782-18785.	13.7	132
10	A Comparison of 4 <i>f</i> vs 5 <i>f</i> Metal ^{II} -Metal Bonds in (CpSiMe ₃) ₃ M ^{II} ECp* (M = Nd, U; E = Al, Ga; Cp* = C ₅ Me ₅): Synthesis, Thermodynamics, Magnetism, and Electronic Structure. <i>Journal of the American Chemical Society</i> , 2009, 131, 13767-13783.	13.7	131
11	Structure and Function of Iron-Loaded Synthetic Melanin. <i>ACS Nano</i> , 2016, 10, 10186-10194.	14.6	127
12	Magnetic Exchange Coupling in Actinide-Containing Molecules. <i>Inorganic Chemistry</i> , 2009, 48, 3382-3395.	4.0	120
13	Slow magnetic relaxation in homoleptic trispyrazolylborate complexes of neodymium(III) and uranium(III). <i>Dalton Transactions</i> , 2012, 41, 13572.	3.3	119
14	Controlling Carrier Densities in Photochemically Reduced Colloidal ZnO Nanocrystals: Size Dependence and Role of the Hole Quencher. <i>Journal of the American Chemical Society</i> , 2013, 135, 16569-16577.	13.7	117
15	Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. <i>Chemistry of Materials</i> , 2017, 29, 8195-8201.	6.7	80
16	Magnetic Exchange Coupling in Chloride-Bridged 5 <i>f</i> -3 <i>d</i> Heterometallic Complexes Generated via Insertion into a Uranium(IV) Dimethylpyrazolate Dimer. <i>Journal of the American Chemical Society</i> , 2007, 129, 10672-10674.	13.7	79
17	Size Dependence of Negative Trion Auger Recombination in Photodoped CdSe Nanocrystals. <i>Nano Letters</i> , 2014, 14, 353-358.	9.1	67
18	Polycatechol Nanoparticle MRI Contrast Agents. <i>Small</i> , 2016, 12, 668-677.	10.0	64

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19	Million-fold Relaxation Time Enhancement across a Series of Phosphino-Supported Erbium Single-Molecule Magnets. <i>Journal of the American Chemical Society</i> , 2019, 141, 1913-1917.	13.7	59
20	High Relaxivity Gadolinium- ϵ -Polydopamine Nanoparticles. <i>Small</i> , 2017, 13, 1701830.	10.0	48
21	Ferromagnetic coupling in a chloride-bridged erbium single-molecule magnet. <i>Chemical Communications</i> , 2017, 53, 7322-7324.	4.1	42
22	Metal-ligand pair anisotropy in a series of mononuclear Er-COT complexes. <i>Chemical Science</i> , 2018, 9, 7204-7209.	7.4	36
23	Perfluorocarbon-loaded polydopamine nanoparticles as ultrasound contrast agents. <i>Nanoscale</i> , 2018, 10, 12813-12819.	5.6	34
24	Ferromagnetic exchange coupling in the linear, chloride-bridged cluster (cyclam)Coll[($\frac{1}{4}$ -Cl)U ^{IV} (Me ₂ Pz) ₄] ₂ . <i>Inorganica Chimica Acta</i> , 2008, 361, 3534-3538.	2.4	25
25	Redox Brightening of Colloidal Semiconductor Nanocrystals Using Molecular Reductants. <i>Journal of the American Chemical Society</i> , 2012, 134, 16175-16177.	13.7	25
26	A Size Threshold for Enhanced Magnetoresistance in Colloidally Prepared CoFe ₂ O ₄ Nanoparticle Solids. <i>ACS Central Science</i> , 2018, 4, 1222-1227.	11.3	25
27	Electrical Detection of Quantum Dot Hot Electrons Generated via a Mn ²⁺ -Enhanced Auger Process. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 126-130.	4.6	20
28	Tetranuclear Uranium Clusters by Reductive Cleavage of 3,5-Dimethylpyrazolate. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2560-2564.	13.8	19
29	Charge-State Control of Mn ²⁺ Spin Relaxation Dynamics in Colloidal <i>in</i> -Type Zn _{1-x} Mn _x O Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1748-1753.	4.6	17
30	Radical-Enriched Artificial Melanin. <i>Chemistry of Materials</i> , 2020, 32, 5759-5767.	6.7	17
31	Control of Interchain Antiferromagnetic Coupling in Porous Co(II)-Based Metal-Organic Frameworks by Tuning the Aromatic Linker Length: How Far Does Magnetic Interaction Propagate?. <i>Inorganic Chemistry</i> , 2017, 56, 7443-7448.	4.0	13
32	Tuning the ultrasonic and photoacoustic response of polydopamine-stabilized perfluorocarbon contrast agents. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4833-4842.	5.8	12
33	Probing axial anisotropy in dinuclear alkoxide-bridged Er-COT single-molecule magnets. <i>Polyhedron</i> , 2020, 175, 114206.	2.2	12
34	Intuitive Control of Low-Energy Magnetic Excitations via Directed Dipolar Interactions in a Series of Er(III)-Based Complexes. <i>Journal of the American Chemical Society</i> , 2022, 144, 11316-11325.	13.7	12
35	Pseudo Spin Valve Behavior in Colloidally Prepared Nanoparticle Films. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1065-1069.	4.3	11
36	A method for extending AC susceptometry to long-timescale magnetic relaxation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22302-22307.	2.8	11

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37	Cyclic Structural Transformations from Crystalline to Crystalline to Amorphous Phases and Magnetic Properties of a Mn(II)-Based Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2018, 18, 3360-3365.	3.0	9
38	Tuning electronic structure through halide modulation of mesoionic carbene cobalt complexes. <i>Dalton Transactions</i> , 2020, 49, 2426-2430.	3.3	9
39	Competing ferro- and antiferromagnetic interactions in a hexagonal bipyramidal nickel thiolate cluster. <i>Dalton Transactions</i> , 2016, 45, 2374-2377.	3.3	6
40	Size-Controlled Hapticity Switching in [Ln(C ₉ H ₉)(C ₈ H ₈)] Sandwiches. <i>Chemistry - A European Journal</i> , 2021, 27, 13558-13567.	3.3	6
41	Role of magnetic concentration in modulating the magnetic properties of ultra-small FePt nanoparticles. <i>Inorganica Chimica Acta</i> , 2017, 460, 114-118.	2.4	5
42	Bis(pentamethylcyclopentadienyl)[(trimethylsilyl)methyl]scandium(III). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m1823-m1824.	0.2	4
43	Strengthening nanocomposite magnetism through microemulsion synthesis. <i>Nano Research</i> , 2018, 11, 4133-4141.	10.4	2
44	Peroxidase-Like Reactivity at Iron-Chelation Sites in a Mesoporous Synthetic Melanin. <i>CCS Chemistry</i> , 2021, 3, 1483-1490.	7.8	2