

Benjamin W Stein

List of Publications by Year in descending order

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34
papers

758
citations

516710

16
h-index

526287

27
g-index

35
all docs

35
docs citations

35
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic and computational investigation of actinium coordination chemistry. <i>Nature Communications</i> , 2016, 7, 12312.	12.8	73
2	Enhanced Charge Transfer Doping Efficiency in J-Aggregate Poly(3-hexylthiophene) Nanofibers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16396-16402.	3.1	65
3	Electronic and Exchange Coupling in a Cross-Conjugated D π -A Biradical: Mechanistic Implications for Quantum Interference Effects. <i>Journal of the American Chemical Society</i> , 2013, 135, 14713-14725.	13.7	53
4	Synthesis and Characterization of the Actinium Aquo Ion. <i>ACS Central Science</i> , 2017, 3, 176-185.	11.3	53
5	Advancing Chelation Chemistry for Actinium and Other +3 f-Elements, Am, Cm, and La. <i>Journal of the American Chemical Society</i> , 2019, 141, 19404-19414.	13.7	46
6	Evaluating the electronic structure of formal Ln ^{II} ions in Ln ^{II} (C ₅ H ₄ SiMe ₃) ₃ using XANES spectroscopy and DFT calculations. <i>Chemical Science</i> , 2017, 8, 6076-6091.	7.4	42
7	Ligand Control of Donor-Acceptor Excited-State Lifetimes. <i>Inorganic Chemistry</i> , 2014, 53, 4791-4793.	4.0	41
8	The coordination chemistry of Cm ^{III} , Am ^{III} , and Ac ^{III} in nitrate solutions: an actinide L ₃ -edge EXAFS study. <i>Chemical Science</i> , 2018, 9, 7078-7090.	7.4	40
9	Electronic structure contributions to reactivity in xanthine oxidase family enzymes. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 183-194.	2.6	33
10	Excited State Magnetic Exchange Interactions Enable Large Spin Polarization Effects. <i>Journal of the American Chemical Society</i> , 2018, 140, 2221-2228.	13.7	33
11	Determining the Conformational Landscape of π - π Coupling Using <i>para</i> -Phenylene and π - π Bridges. <i>Journal of the American Chemical Society</i> , 2015, 137, 9222-9225.	13.7	30
12	Orbital contributions to CO oxidation in Mo-Cu carbon monoxide dehydrogenase. <i>Chemical Communications</i> , 2014, 50, 1104-1106.	4.1	28
13	Implications of Pyran Cyclization and Pterin Conformation on Oxidized Forms of the Molybdenum Cofactor. <i>Journal of the American Chemical Society</i> , 2018, 140, 12808-12818.	13.7	22
14	Separation of Protactinium Employing Sulfur-Based Extraction Chromatographic Resins. <i>Analytical Chemistry</i> , 2018, 90, 7012-7017.	6.5	21
15	Wave Function Control of Charge-Separated Excited-State Lifetimes. <i>Journal of the American Chemical Society</i> , 2019, 141, 3986-3992.	13.7	20
16	Spectroscopic Signatures of Resonance Inhibition Reveal Differences in Donor-Bridge and Bridge-Acceptor Couplings. <i>Journal of the American Chemical Society</i> , 2020, 142, 4916-4924.	13.7	20
17	Computer-Assisted Design of Macrocyclic Chelators for Actinium-225 Radiotherapeutics. <i>Inorganic Chemistry</i> , 2021, 60, 623-632.	4.0	20
18	Monomers, Dimers, and Helices: Complexities of Cerium and Plutonium Phenanthrolinecarboxylates. <i>Inorganic Chemistry</i> , 2016, 55, 4373-4380.	4.0	17

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19	Vibrational Control of Covalency Effects Related to the Active Sites of Molybdenum Enzymes. <i>Journal of the American Chemical Society</i> , 2018, 140, 14777-14788.	13.7	13
20	High-Frequency and -Field Electron Paramagnetic Resonance Spectroscopic Analysis of Metal-Ligand Covalency in a 4f ⁷ Valence Series (Eu ²⁺ , Gd ³⁺ , and Tm ³⁺). <i>Journal of the American Chemical Society</i> , 2020, 142, 12506-12514.	10.0	10
21	Spectroscopic and electrochemical characterization of a Pr ⁴⁺ imidophosphorane complex and the redox chemistry of Nd ³⁺ and Dy ³⁺ complexes. <i>Dalton Transactions</i> , 2022, 51, 6696-6706.	3.3	11
22	Low-spin 1,1'-diphosmetalocenates of chromium and iron. <i>Chemical Communications</i> , 2021, 57, 595-598.	4.1	10
23	Using molten salts to probe outer-coordination sphere effects on lanthanide(III)/lanthanide(II) electron-transfer reactions. <i>Dalton Transactions</i> , 2021, 50, 15696-15710.	3.3	10
24	Preparation of an Actinium-228 Generator. <i>Inorganic Chemistry</i> , 2020, 59, 3200-3206.	4.0	9
25	Advancing understanding of actinide(III) (Ac, Am, Cm) aqueous complexation chemistry. <i>Chemical Science</i> , 2021, 12, 5638-5654.	7.4	8
26	Long-range spin dependent delocalization promoted by the pseudo Jahn-Teller effect. <i>Journal of Chemical Physics</i> , 2019, 151, 201103.	3.0	7
27	Development of Anti-Yersinia pestis Human Antibodies with Features Required for Diagnostic and Therapeutic Applications. <i>ImmunoTargets and Therapy</i> , 2020, Volume 9, 299-316.	5.8	7
28	Characterizing Extraction Chromatography for Large-Scale Americium-241 Processing. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 14282-14296.	3.7	4
29	Whispering gallery mode resonators in continuous flow: spectral assignments and sensing with monodisperse microspheres. <i>Analytical Methods</i> , 2022, 14, 1690-1697.	2.7	3
30	Thiodesferrioxamine: Characterization of a Fluorescent Bacterial Probe. <i>Dalton Transactions</i> , 2021, 50, 15310-15320.	3.3	2
31	Hyperspectral X-Ray Imaging: Progress Towards Chemical Analysis in the SEM. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-6.	1.7	2
32	Understanding the Photochemical Properties of Polythiophene Polyelectrolyte Soft Aggregates with Sodium Dodecyl Sulfate for Antimicrobial Activity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55953-55965.	8.0	2
33	Characterizing Polyoxovanadate-Alkoxide Clusters Using Vanadium K-Edge X-Ray Absorption Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 1592-1597.	3.3	1
34	Synthesis, solid-state, solution, and theoretical characterization of an in-cage-scandium-NOTA complex. <i>Dalton Transactions</i> , 0, , .	3.3	0