

Tori Z Forbes

List of Publications by Year in descending order

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86
papers

2,103
citations

279487

23
h-index

264894

42
g-index

89
all docs

89
docs citations

89
times ranked

2455
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformation and crystallization energetics of synthetic and biogenic amorphous calcium carbonate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16438-16443.	3.3	385
2	Detection and identification of solids, surfaces, and solutions of uranium using vibrational spectroscopy. <i>Coordination Chemistry Reviews</i> , 2018, 374, 314-344.	9.5	112
3	Development of Metal-Organic Nanotubes Exhibiting Low-Temperature, Reversible Exchange of Confined Channels. <i>Journal of the American Chemical Society</i> , 2013, 135, 7398-7401.	6.6	89
4	Metal-Oxygen Isopolyhedra Assembled into Fullerene Topologies. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2824-2827.	7.2	86
5	SERS detection of uranyl using functionalized gold nanostars promoted by nanoparticle shape and size. <i>Analyst</i> , 2016, 141, 5137-5143.	1.7	72
6	Synthesis, Structure, and Magnetism of Np ₂ O ₅ . <i>Journal of the American Chemical Society</i> , 2007, 129, 2760-2761.	6.6	68
7	The energetics of nanophase calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7893-7905.	1.6	61
8	Crystallization of Keggin-Type Polyaluminum Species by Supramolecular Interactions with Disulfonate Anions. <i>Crystal Growth and Design</i> , 2012, 12, 2044-2051.	1.4	59
9	Crystal Structures and Magnetic Properties of Na ₃ (NpO ₂) ₄ (SO ₄) ₄ (H ₂ O) ₂ and NaNpO ₂ SO ₄ H ₂ O: A Cation-Cation Interactions in a Neptunyl Sulfate Framework. <i>Chemistry of Materials</i> , 2006, 18, 1643-1649.	3.2	54
10	Understanding the Radioactive Ingrowth and Decay of Naturally Occurring Radioactive Materials in the Environment: An Analysis of Produced Fluids from the Marcellus Shale. <i>Environmental Health Perspectives</i> , 2015, 123, 689-696.	2.8	53
11	Expanding the Crystal Chemistry of Uranyl Peroxides: Synthesis and Structures of Di- and Triperoxodioxouranium(VI) Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 3657-3662.	1.9	44
12	Metal-Organic Frameworks with Direct Transition Metal-Sulfonate Interactions and Charge-Assisted Hydrogen Bonds. <i>Inorganic Chemistry</i> , 2009, 48, 6873-6878.	1.9	41
13	Structures and syntheses of four Np ⁵⁺ sulfate chain structures: Divergence from U ⁶⁺ crystal chemistry. <i>Journal of Solid State Chemistry</i> , 2005, 178, 3445-3452.	1.4	39
14	Surface Modification of Al ₃₀ Keggin-Type Polyaluminum Molecular Clusters. <i>Inorganic Chemistry</i> , 2013, 52, 5991-5999.	1.9	39
15	Evaluating Best Practices in Raman Spectral Analysis for Uranium Speciation and Relative Abundance in Aqueous Solutions. <i>Analytical Chemistry</i> , 2016, 88, 773-780.	3.2	38
16	Alteration of dehydrated schoepite and soddyite to studtite, [(UO ₂)(O ₂)(H ₂ O) ₂](H ₂ O) ₂ . <i>American Mineralogist</i> , 2011, 96, 202-206.	0.9	36
17	Use of Charge-Assisted Hydrogen Bonding in the Supramolecular Assembly of Hybrid Uranyl Materials. <i>Crystal Growth and Design</i> , 2014, 14, 1357-1365.	1.4	33
18	The energetics of lanthanum tantalate materials. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2516-2521.	1.4	27

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19	Structural Features in Metal-Organic Nanotube Crystals That Influence Stability and Solvent Uptake. <i>Crystal Growth and Design</i> , 2015, 15, 4062-4070.	1.4	27
20	Matrix-Independent Surface-Enhanced Raman Scattering Detection of Uranyl Using Electrospun Amidoximated Polyacrylonitrile Mats and Gold Nanostars. <i>Analytical Chemistry</i> , 2018, 90, 6766-6772.	3.2	26
21	Characterization and implications of solids associated with hydraulic fracturing flowback and produced water from the Duvernay Formation, Alberta, Canada. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 242-255.	1.7	26
22	Ba(NpO ₂)(PO ₄)(H ₂ O), its relationship to the uranophane group, and implications for Np incorporation in uranyl minerals. <i>American Mineralogist</i> , 2006, 91, 1089-1093.	0.9	25
23	Contaminant Adsorption on Nanoscale Particles: Structural and Theoretical Characterization of Cu ²⁺ Bonding on the Surface of Keggin-Type Polyaluminum (Al ₃₀) Molecular Species. <i>Langmuir</i> , 2013, 29, 14124-14134.	1.6	24
24	Disequilibrium of Naturally Occurring Radioactive Materials (NORM) in Drill Cuttings from a Horizontal Drilling Operation. <i>Environmental Science and Technology Letters</i> , 2016, 3, 425-429.	3.9	24
25	Synthesis of an Aluminum Hydroxide Octamer through a Simple Dissolution Method. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10161-10164.	7.2	24
26	Characterization of Phosphate and Arsenate Adsorption onto Keggin-Type Al ₃₀ Cations by Experimental and Theoretical Methods. <i>Inorganic Chemistry</i> , 2015, 54, 8367-8374.	1.9	23
27	Functionalized electrospun polymer nanofibers for treatment of water contaminated with uranium. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 622-634.	1.2	22
28	Synthesis and Structural Characterization of Hydrolysis Products within the Uranyl Iminodiacetate and Malate Systems. <i>Inorganic Chemistry</i> , 2013, 52, 10191-10198.	1.9	21
29	In Situ Generation of Organic Peroxide to Create a Nanotubular Uranyl Peroxide Phosphate. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18429-18433.	7.2	21
30	Energetics of Formation and Hydration of a Porous Metal Organic Nanotube. <i>Chemistry of Materials</i> , 2014, 26, 5105-5112.	3.2	20
31	Structural characterization of environmentally relevant ternary uranyl citrate complexes present in aqueous solutions and solid state materials. <i>Dalton Transactions</i> , 2015, 44, 2597-2605.	1.6	20
32	Systematic Study of Aluminum Nanoclusters and Anion Adsorbates. <i>Inorganic Chemistry</i> , 2017, 56, 13014-13028.	1.9	18
33	Actinyl-cation interactions: experimental and theoretical assessment of [Np(<i>vi</i>)O ₂ Cl ₄] ²⁺ and [U(<i>vi</i>)O ₂ Cl ₄] ²⁺ systems. <i>Dalton Transactions</i> , 2019, 48, 8861-8871.	1.6	18
34	Charge-Assisted Hydrogen Bonding and Crystallization Effects within U ^{VI} Glycine Compounds. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1938-1946.	1.0	17
35	Structure Determination and Infrared Spectroscopy of K(UO ₂)(SO ₄)(OH)(H ₂ O) and K(UO ₂)(SO ₄)(OH). <i>Inorganic Chemistry</i> , 2007, 46, 7163-7168.	1.9	16
36	Metal Substitution into Metal Organic Nanotubes: Impacts on Solvent Uptake and Stability. <i>Crystal Growth and Design</i> , 2016, 16, 7058-7066.	1.4	15

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37	Subtle Effects of Aliphatic Alcohol Structure on Water Extraction and Solute Aggregation in Biphasic Water/ <i>n</i> -Dodecane. <i>Langmuir</i> , 2017, 33, 3776-3786.	1.6	15
38	Isolation and Reactivity of Uranyl Superoxide. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15041-15048.	7.2	15
39	Directing dimensionality in uranyl malate and copper uranyl malate compounds. <i>Polyhedron</i> , 2016, 114, 378-384.	1.0	14
40	A chromatographic separation of neptunium and protactinium using 1-octanol impregnated onto a solid phase support. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 307, 59-67.	0.7	14
41	Synthesis and spectroscopic characterization of actinyl(VI) tetrahalide coordination compounds containing 2,2'-bipyridine. <i>Inorganica Chimica Acta</i> , 2020, 508, 119628.	1.2	14
42	From Adsorption to Precipitation of U(VI): What is the Role of pH and Natural Organic Matter?. <i>Environmental Science & Technology</i> , 2021, 55, 16246-16256.	4.6	14
43	Synthesis and characterization of heterometallic uranyl pyridinedicarboxylate compounds. <i>Journal of Solid State Chemistry</i> , 2017, 254, 25-31.	1.4	13
44	Impacts of Oxo Interactions on Np(V) Crown Ether Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 6016-6028.	1.9	13
45	Ga ³⁺ Incorporation into Al ₁₃ Keggin Polyoxometalates and the Formation of $\tilde{\Gamma}$ -(GaAl ₁₂) ⁷⁺ and (Ga _{2.5} Al _{28.5}) ¹⁹⁺ Polycations. <i>Inorganic Chemistry</i> , 2020, 59, 10461-10472.	1.9	13
46	Synthesis and characterization of homo- and heteronuclear molecular Al ³⁺ and Th ⁴⁺ species chelated by the ethylenediaminetetraacetate (edta) ligand. <i>Dalton Transactions</i> , 2013, 42, 13706.	1.6	12
47	Spectral Analysis of the Uranyl Squarate and Croconate System: Evaluating Differences between the Solution and Solid-State Phases. <i>Crystal Growth and Design</i> , 2017, 17, 5330-5341.	1.4	12
48	Impacts of hydrogen bonding interactions with Np(^v)/(^{vi})O ₂ Cl ₄ complexes: vibrational spectroscopy, redox behavior, and computational analysis. <i>Dalton Transactions</i> , 2020, 49, 6854-6866.	1.6	12
49	Impacts of oxo interactions within actinyl metal organic materials: highlight on thermal expansion behaviour. <i>Chemical Communications</i> , 2018, 54, 10828-10831.	2.2	11
50	Exploring crown-ether functionalization on the stabilization of hexavalent neptunium. <i>Chemical Communications</i> , 2019, 55, 9319-9322.	2.2	11
51	Synthesis of an Aluminum Hydroxide Octamer through a Simple Dissolution Method. <i>Angewandte Chemie</i> , 2017, 129, 10295-10298.	1.6	10
52	Diffusion and selectivity of water confined within metal-organic nanotubes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1531-1539.	5.2	10
53	Reductive activation of neptunyl and plutonyl oxo species with a hydroxypyridinone chelating ligand. <i>Chemical Communications</i> , 2018, 54, 10698-10701.	2.2	10
54	Utilizing Autoxidation of Solvents To Promote the Formation of Uranyl Peroxide Materials. <i>Crystal Growth and Design</i> , 2019, 19, 1756-1766.	1.4	10

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55	Modeling of MAl_{12} Keggin Heteroatom Reactivity by Anion Adsorption. <i>Crystal Growth and Design</i> , 2019, 19, 2820-2829.	1.4	10
56	Use of vibrational spectroscopy to identify the formation of neptunyl-neptunyl interactions: a paired density functional theory and Raman spectroscopy study. <i>Dalton Transactions</i> , 2022, 51, 4772-4785.	1.6	10
57	Synthesis and Structural Characterization of Heterometallic Thorium Aluminum Polynuclear Molecular Clusters. <i>Inorganic Chemistry</i> , 2012, 51, 9491-9498.	1.9	9
58	Mineralogic controls on aqueous neptunium(V) concentrations in silicate systems. <i>Journal of Nuclear Materials</i> , 2013, 433, 233-239.	1.3	9
59	Synthesis and characterization of 1-D uranyl thiodiglycolate coordination polymers. <i>Polyhedron</i> , 2014, 73, 110-117.	1.0	9
60	Interplay of Condensation and Chelation in Binary and Ternary Th(IV) Systems. <i>Inorganic Chemistry</i> , 2015, 54, 1395-1404.	1.9	9
61	Partitioning of naturally-occurring radionuclides (NORM) in Marcellus Shale produced fluids influenced by chemical matrix. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 456-463.	1.7	9
62	Formation of Nanoscale $[Ge_4O_{16}Al_{48}(OH)_{108}(H_2O)_{24}]^{20+}$ from Condensation of UO_2^{2+} Keggin Polycations**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8755-8759.	7.2	9
63	Controlling water structure and behavior: design principles from metal organic nanotubular materials. <i>CrystEngComm</i> , 2020, 22, 3406-3418.	1.3	8
64	Uranyl Speciation on the Surface of Amidoximated Polyacrylonitrile Mats. <i>Inorganic Chemistry</i> , 2020, 59, 8134-8145.	1.9	8
65	Density functional theory and thermodynamics analysis of MAl_{12} Keggin substitution reactions: Insights into ion incorporation and experimental confirmation. <i>Journal of Chemical Physics</i> , 2021, 154, 064303.	1.2	7
66	Thermodynamics and Chemical Behavior of Uranyl Superoxide at Elevated Temperatures. <i>ACS Materials Au</i> , 2022, 2, 33-44.	2.6	7
67	A New Nanometer-Sized Ga(III)-Oxyhydroxide Cation. <i>Inorganics</i> , 2015, 3, 21-26.	1.2	6
68	X-ray Diffraction Techniques. , 2019, , 215-237.		6
69	Selectivity for water isotopologues within metal organic nanotubes. <i>RSC Advances</i> , 2021, 11, 16706-16710.	1.7	6
70	Trace-Level Extraction Behavior of Actinide Elements by Aliphatic Alcohol Extractants in Mineral Acids: Insights into the Trace Solution Chemistry of Protactinium. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 509-521.	0.8	5
71	Use of Zwitterionic Ligands in Uranyl Hybrid Materials: Explorations on the Structural Features that Control Water Ordering and Mobility. <i>Crystal Growth and Design</i> , 2017, 17, 6498-6509.	1.4	5
72	Ontogenetic variability in crystallography and mosaicity of conodont apatite: implications for microstructure, palaeothermometry and geochemistry. <i>Royal Society Open Science</i> , 2020, 7, 200322.	1.1	5

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73	The energetics of $\text{La}_4\text{LiAuO}_8$. Journal of Materials Research, 2011, 26, 1188-1192.	1.2	4
74	Photoinduced Transformation of Uranyl Nitrate Crown Ether Compounds. European Journal of Inorganic Chemistry, 2021, 2021, 166-176.	1.0	3
75	Mechanochemical activation and oxidation of $\text{U}(\text{IV})\text{O}_2$. Chemical Communications, 2022, 58, 4528-4531.	2.2	3
76	Occurrence of Nanomaterials in the Environment. , 2015, , 179-218.		2
77	In Situ Generation of Organic Peroxide to Create a Nanotubular Uranyl Peroxide Phosphate. Angewandte Chemie, 2019, 131, 18600-18604.	1.6	2
78	Mechanochemical synthesis of crystalline $\text{U}(\text{VI})$ triperoxide solids. CrystEngComm, 2022, 24, 775-781.	1.3	2
79	Formation of Nanoscale $[\text{Ge}_4\text{O}_{16}\text{Al}_{48}(\text{OH})_{108}(\text{H}_2\text{O})_{24}]^{20+}$ from Condensation of $\mu_6\text{-GeAl}_{12}^{8+}$ Keggin Polycations**. Angewandte Chemie, 2021, 133, 8837-8841.	1.6	1
80	Influence of heterocyclic N-donors on the structural topologies and vibrational spectra of uranyl selenate phases. Journal of Solid State Chemistry, 2021, 304, 122619.	1.4	1
81	Thermal Aging of Heteroatom-Substituted Keggin-Type Aluminum Oxo Polycation Solutions: Aggregation Behavior and Impacts on Humic Acid and Turbidity Removal. ACS ES&T Water, 2022, 2, 22-31.	2.3	1
82	Nanomechanical variability in the early evolution of vertebrate dentition. Scientific Reports, 2022, 12, .	1.6	1
83	Recent Advancements in the Radiochemistry of Elements Pertaining to Select Nuclear Materials and Wastes. ACS Symposium Series, 2017, , 173-194.	0.5	0
84	Exploring competitive metal binding and crystallization of UO_2^{2+} and Cu^{2+} tetrahydrofuran-2,3,4,5-tetracarboxylic acid complexes. Polyhedron, 2021, 194, 114904.	1.0	0
85	Isolation and Reactivity of Uranyl Superoxide. Angewandte Chemie, 2021, 133, 15168-15175.	1.6	0
86	Cr^{3+} incorporation into an Al^{3+} Keggin-type oligomer to form the $\text{Al}_{25.7}\text{Cr}_{6.3}\text{S}_{216}^{16+}$ polycation. Inorganic Chemistry Communication, 2022, 141, 109519.	1.8	0