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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	Thermodynamics and Chemical Behavior of Uranyl Superoxide at Elevated Temperatures. ACS Materials Au, 2022, 2, 33-44.	2.6	7
2	Mechanochemical synthesis of crystalline U(<scp>vi</scp>) triperoxide solids. CrystEngComm, 2022, 24, 775-781.	1.3	2
3	Use of vibrational spectroscopy to identify the formation of neptunylâ€“neptunyl interactions: a paired density functional theory and Raman spectroscopy study. Dalton Transactions, 2022, 51, 4772-4785.	1.6	10
4	Mechanochemical activation and oxidation of U(<scp>iv</scp>)O₂. Chemical Communications, 2022, 58, 4528-4531.	2.2	3
5	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
6	Cr3+ incorporation into an Al3+ Keggin-type oligomer to form the Al25.7Cr6.3S216+ polycation. Inorganic Chemistry Communication, 2022, 141, 109519.	1.8	0
7	Nanomechanical variability in the early evolution of vertebrate dentition. Scientific Reports, 2022, 12, .	1.6	1
8	Exploring competitive metal binding and crystallization of UO22+ and Cu2+ tetrahydrofuran-2,3,4,5-tetracarboxylic acid complexes. Polyhedron, 2021, 194, 114904.	1.0	0
9	Selectivity for water isotopologues within metal organic nanotubes. RSC Advances, 2021, 11, 16706-16710.	1.7	6
10	Density functional theory and thermodynamics analysis of MAl12 Keggin substitution reactions: Insights into ion incorporation and experimental confirmation. Journal of Chemical Physics, 2021, 154, 064303.	1.2	7
11	Formation of Nanoscale [Ge₄O₁₆Al₄₈(OH)₁₀₈(H₂O)₂₄]²⁰⁺ from Condensation of Ïµâ€GeAl₁₂⁸⁺ Keggin Polycations**. Angewandte Chemie - International Edition, 2021, 60, 8755-8759.	7.2	9
12	Formation of Nanoscale [Ge 4 O 16 Al 48 (OH) 108 (H 2 O) 24] 20+ from Condensation of Ïµâ€GeAl 12 8+ Keggin Polycations**. Angewandte Chemie, 2021, 133, 8837-8841.	1.6	1
13	Isolation and Reactivity of Uranyl Superoxide. Angewandte Chemie, 2021, 133, 15168-15175.	1.6	0
14	Isolation and Reactivity of Uranyl Superoxide. Angewandte Chemie - International Edition, 2021, 60, 15041-15048.	7.2	15
15	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
16	Photoinduced Transformation of Uranyl Nitrate Crown Ether Compounds. European Journal of Inorganic Chemistry, 2021, 2021, 166-176.	1.0	3
17	From Adsorption to Precipitation of U(VI): What is the Role of pH and Natural Organic Matter?. Environmental Science & Technology, 2021, 55, 16246-16256.	4.6	14
18	Functionalized electrospun polymer nanofibers for treatment of water contaminated with uranium. Environmental Science: Water Research and Technology, 2020, 6, 622-634.	1.2	22

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19	Ga³⁺ Incorporation into Al₁₃ Keggin Polyoxometalates and the Formation of Î´-(GaAl₁₂)⁷⁺ and (Ga_{2.5}Al_{28.5})¹⁹⁺ Polycations. Inorganic Chemistry, 2020, 59, 10461-10472.	1.9	13
20	Ontogenetic variability in crystallography and mosaicity of conodont apatite: implications for microstructure, palaeothermometry and geochemistry. Royal Society Open Science, 2020, 7, 200322.	1.1	5
21	Impacts of hydrogen bonding interactions with Np(<scp>v</scp>/<scp>vi</scp>)O₂Cl₄ complexes: vibrational spectroscopy, redox behavior, and computational analysis. Dalton Transactions, 2020, 49, 6854-6866.	1.6	12
22	Synthesis and spectroscopic characterization of actinyl(VI) tetrahalide coordination compounds containing 2, 2â€²-bipyridine. Inorganica Chimica Acta, 2020, 508, 119628.	1.2	14
23	Controlling water structure and behavior: design principles from metal organic nanotubular materials. CrystEngComm, 2020, 22, 3406-3418.	1.3	8
24	Uranyl Speciation on the Surface of Amidoximated Polyacrylonitrile Mats. Inorganic Chemistry, 2020, 59, 8134-8145.	1.9	8
25	Exploring crown-ether functionalization on the stabilization of hexavalent neptunium. Chemical Communications, 2019, 55, 9319-9322.	2.2	11
26	X-ray Diffraction Techniques. , 2019, , 215-237.		6
27	In Situ Generation of Organic Peroxide to Create a Nanotubular Uranyl Peroxide Phosphate. Angewandte Chemie, 2019, 131, 18600-18604.	1.6	2
28	In Situ Generation of Organic Peroxide to Create a Nanotubular Uranyl Peroxide Phosphate. Angewandte Chemie - International Edition, 2019, 58, 18429-18433.	7.2	21
29	Characterization and implications of solids associated with hydraulic fracturing flowback and produced water from the Duvernay Formation, Alberta, Canada. Environmental Sciences: Processes and Impacts, 2019, 21, 242-255.	1.7	26
30	Utilizing Autoxidation of Solvents To Promote the Formation of Uranyl Peroxide Materials. Crystal Growth and Design, 2019, 19, 1756-1766.	1.4	10
31	Actinyl-cation interactions: experimental and theoretical assessment of [Np(<scp>vi</scp>)O₂Cl₄]^{2â^'} and [U(<scp>vi</scp>)O₂Cl₄]^{2â^'} systems. Dalton Transactions, 2019, 48, 8861-8871.	1.6	18
32	Modeling of MAl₁₂ Keggin Heteroatom Reactivity by Anion Adsorption. Crystal Growth and Design, 2019, 19, 2820-2829.	1.4	10
33	Diffusion and selectivity of water confined within metalâ€“organic nanotubes.. Journal of Materials Chemistry A, 2018, 6, 1531-1539.	5.2	10
34	Reductive activation of neptunyl and plutonyl oxo species with a hydroxypyridinone chelating ligand. Chemical Communications, 2018, 54, 10698-10701.	2.2	10
35	Detection and identification of solids, surfaces, and solutions of uranium using vibrational spectroscopy. Coordination Chemistry Reviews, 2018, 374, 314-344.	9.5	112
36	Impacts of Oxo Interactions on Np(V) Crown Ether Complexes. Inorganic Chemistry, 2018, 57, 6016-6028.	1.9	13

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37	Matrix-Independent Surface-Enhanced Raman Scattering Detection of Uranyl Using Electrospun Amidoximated Polyacrylonitrile Mats and Gold Nanostars. Analytical Chemistry, 2018, 90, 6766-6772.	3.2	26
38	Impacts of oxo interactions within actinyl metal organic materials: highlight on thermal expansion behaviour. Chemical Communications, 2018, 54, 10828-10831.	2.2	11
39	Chargeâ€Assisted Hydrogenâ€Bonding and Crystallization Effects within U^{VI} Glycine Compounds. European Journal of Inorganic Chemistry, 2017, 2017, 1938-1946.	1.0	17
40	Synthesis of an Aluminum Hydroxide Octamer through a Simple Dissolution Method. Angewandte Chemie, 2017, 129, 10295-10298.	1.6	10
41	Synthesis of an Aluminum Hydroxide Octamer through a Simple Dissolution Method. Angewandte Chemie - International Edition, 2017, 56, 10161-10164.	7.2	24
42	Subtle Effects of Aliphatic Alcohol Structure on Water Extraction and Solute Aggregation in Biphasic Water/n-Dodecane. Langmuir, 2017, 33, 3776-3786.	1.6	15
43	Recent Advancements in the Radiochemistry of Elements Pertaining to Select Nuclear Materials and Wastes. ACS Symposium Series, 2017, , 173-194.	0.5	0
44	Use of Zwitterionic Ligands in Uranyl Hybrid Materials: Explorations on the Structural Features that Control Water Ordering and Mobility. Crystal Growth and Design, 2017, 17, 6498-6509.	1.4	5
45	Systematic Study of Aluminum Nanoclusters and Anion Adsorbates. Inorganic Chemistry, 2017, 56, 13014-13028.	1.9	18
46	Spectral Analysis of the Uranyl Squarate and Croconate System: Evaluating Differences between the Solution and Solid-State Phases. Crystal Growth and Design, 2017, 17, 5330-5341.	1.4	12
47	Synthesis and characterization of heterometallic uranyl pyridinedicarboxylate compounds. Journal of Solid State Chemistry, 2017, 254, 25-31.	1.4	13
48	Trace-Level Extraction Behavior of Actinide Elements by Aliphatic Alcohol Extractants in Mineral Acids: Insights into the Trace Solution Chemistry of Protactinium. Solvent Extraction and Ion Exchange, 2016, 34, 509-521.	0.8	5
49	Disequilibrium of Naturally Occurring Radioactive Materials (NORM) in Drill Cuttings from a Horizontal Drilling Operation. Environmental Science and Technology Letters, 2016, 3, 425-429.	3.9	24
50	Partitioning of naturally-occurring radionuclides (NORM) in Marcellus Shale produced fluids influenced by chemical matrix. Environmental Sciences: Processes and Impacts, 2016, 18, 456-463.	1.7	9
51	Metal Substitution into Metal Organic Nanotubes: Impacts on Solvent Uptake and Stability. Crystal Growth and Design, 2016, 16, 7058-7066.	1.4	15
52	Directing dimensionality in uranyl malate and copper uranyl malate compounds. Polyhedron, 2016, 114, 378-384.	1.0	14
53	SERS detection of uranyl using functionalized gold nanostars promoted by nanoparticle shape and size. Analyst, The, 2016, 141, 5137-5143.	1.7	72
54	A chromatographic separation of neptunium and protactinium using 1-octanol impregnated onto a solid phase support. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 59-67.	0.7	14

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55	Evaluating Best Practices in Raman Spectral Analysis for Uranium Speciation and Relative Abundance in Aqueous Solutions. Analytical Chemistry, 2016, 88, 773-780.	3.2	38
56	Understanding the Radioactive Ingrowth and Decay of Naturally Occurring Radioactive Materials in the Environment: An Analysis of Produced Fluids from the Marcellus Shale. Environmental Health Perspectives, 2015, 123, 689-696.	2.8	53
57	A New Nanometer-Sized Ga(III)-Oxyhydroxide Cation. Inorganics, 2015, 3, 21-26.	1.2	6
58	Interplay of Condensation and Chelation in Binary and Ternary Th(IV) Systems. Inorganic Chemistry, 2015, 54, 1395-1404.	1.9	9
59	Characterization of Phosphate and Arsenate Adsorption onto Keggin-Type Al₃₀ Cations by Experimental and Theoretical Methods. Inorganic Chemistry, 2015, 54, 8367-8374.	1.9	23
60	Structural Features in Metalâ€“Organic Nanotube Crystals That Influence Stability and Solvent Uptake. Crystal Growth and Design, 2015, 15, 4062-4070.	1.4	27
61	Occurrence of Nanomaterials in the Environment. , 2015, , 179-218.		2
62	Structural characterization of environmentally relevant ternary uranyl citrate complexes present in aqueous solutions and solid state materials. Dalton Transactions, 2015, 44, 2597-2605.	1.6	20
63	Use of Charge-Assisted Hydrogen Bonding in the Supramolecular Assembly of Hybrid Uranyl Materials. Crystal Growth and Design, 2014, 14, 1357-1365.	1.4	33
64	Energetics of Formation and Hydration of a Porous Metal Organic Nanotube. Chemistry of Materials, 2014, 26, 5105-5112.	3.2	20
65	Synthesis and characterization of 1-D uranyl thiodigycolate coordination polymers. Polyhedron, 2014, 73, 110-117.	1.0	9
66	Synthesis and Structural Characterization of Hydrolysis Products within the Uranyl Iminodiacetate and Malate Systems. Inorganic Chemistry, 2013, 52, 10191-10198.	1.9	21
67	Contaminant Adsorption on Nanoscale Particles: Structural and Theoretical Characterization of Cu²⁺ Bonding on the Surface of Keggin-Type Polyaluminum (Al₃₀) Molecular Species. Langmuir, 2013, 29, 14124-14134.	1.6	24
68	Synthesis and characterization of homo- and heteronuclear molecular Al3+ and Th4+ species chelated by the ethylenediaminetetraacetate (edta) ligand. Dalton Transactions, 2013, 42, 13706.	1.6	12
69	Mineralogic controls on aqueous neptunium(V) concentrations in silicate systems. Journal of Nuclear Materials, 2013, 433, 233-239.	1.3	9
70	Surface Modification of Al₃₀ Keggin-Type Polyaluminum Molecular Clusters. Inorganic Chemistry, 2013, 52, 5991-5999.	1.9	39
71	Development of Metalâ€“Organic Nanotubes Exhibiting Low-Temperature, Reversible Exchange of Confined â€œIce Channelsâ€• Journal of the American Chemical Society, 2013, 135, 7398-7401.	6.6	89
72	Crystallization of Keggin-Type Polyaluminum Species by Supramolecular Interactions with Disulfonate Anions. Crystal Growth and Design, 2012, 12, 2044-2051.	1.4	59

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73	Synthesis and Structural Characterization of Heterometallic Thorium Aluminum Polynuclear Molecular Clusters. Inorganic Chemistry, 2012, 51, 9491-9498.	1.9	9
74	The energetics of La₄LiAuO₈. Journal of Materials Research, 2011, 26, 1188-1192.	1.2	4
75	The energetics of nanophase calcite. Geochimica Et Cosmochimica Acta, 2011, 75, 7893-7905.	1.6	61
76	Alteration of dehydrated schoepite and soddyite to studtite, [(UO2)(O2)(H2O)2](H2O)2. American Mineralogist, 2011, 96, 202-206.	0.9	36
77	The energetics of lanthanum tantalate materials. Journal of Solid State Chemistry, 2010, 183, 2516-2521.	1.4	27
78	Transformation and crystallization energetics of synthetic and biogenic amorphous calcium carbonate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16438-16443.	3.3	385
79	Metal-Organic Frameworks with Direct Transition Metal-Sulfonate Interactions and Charge-Assisted Hydrogen Bonds. Inorganic Chemistry, 2009, 48, 6873-6878.	1.9	41
80	Metalâ€“Oxygen Isopolyhedra Assembled into Fullerene Topologies. Angewandte Chemie - International Edition, 2008, 47, 2824-2827.	7.2	86
81	Expanding the Crystal Chemistry of Uranyl Peroxides:â€‰ Synthesis and Structures of Di- and Triperoxodioxouranium(VI) Complexes. Inorganic Chemistry, 2007, 46, 3657-3662.	1.9	44
82	Synthesis, Structure, and Magnetism of Np2O5. Journal of the American Chemical Society, 2007, 129, 2760-2761.	6.6	68
83	Structure Determination and Infrared Spectroscopy of K(UO₂)(SO₄)(OH)(H₂O) and K(UO₂)(SO₄)(OH). Inorganic Chemistry, 2007, 46, 7163-7168.	1.9	16
84	Crystal Structures and Magnetic Properties of NaK3(NpO2)4(SO4)4(H2O)2and NaNpO2SO4H2O:Â Cationâ"Cation Interactions in a Neptunyl Sulfate Framework. Chemistry of Materials, 2006, 18, 1643-1649.	3.2	54
85	Ba(NpO2)(PO4)(H2O), its relationship to the uranophane group, and implications for Np incorporation in uranyl minerals. American Mineralogist, 2006, 91, 1089-1093.	0.9	25
86	Structures and syntheses of four Np5+ sulfate chain structures: Divergence from U6+ crystal chemistry. Journal of Solid State Chemistry, 2005, 178, 3445-3452.	1.4	39