

Peter Burns

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#	Paper	IF	Citations
417	U6+ MINERALS AND INORGANIC COMPOUNDS: INSIGHTS INTO AN EXPANDED STRUCTURAL HIERARCHY OF CRYSTAL STRUCTURES. <i>Canadian Mineralogist</i> , 2005 , 43, 1839-1894	0.7	485
416	Nuclear fuel in a reactor accident. <i>Science</i> , 2012 , 335, 1184-8	33.3	328
415	Clusters of actinides with oxide, peroxide, or hydroxide bridges. <i>Chemical Reviews</i> , 2013 , 113, 1097-120	68.1	252
414	A comprehensive comparison of transition-metal and actinyl polyoxometalates. <i>Chemical Society Reviews</i> , 2012 , 41, 7354-67	58.5	242
413	Actinyl peroxide nanospheres. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2135-9	16.4	236
412	Stability of peroxide-containing uranyl minerals. <i>Science</i> , 2003 , 302, 1191-3	33.3	184
411	Incorporation mechanisms of actinide elements into the structures of U6+ phases formed during the oxidation of spent nuclear fuel. <i>Journal of Nuclear Materials</i> , 1997 , 245, 1-9	3.3	176
410	The structure of the plutonium oxide nanocluster [Pu38O56Cl54(H2O)8]14-. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 298-302	16.4	158
409	Review of uranyl mineral solubility measurements. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 335-352		156
408	The Crystal Chemistry of Sulfate Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2000 , 40, 1-112	7.1	148
407	Symmetry versus minimal pentagonal adjacencies in uranium-based polyoxometalate fullerene topologies. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2737-40	16.4	133
406	Studtite, [(UO2)(O2)(H2O)2](H2O)2: The first structure of a peroxide mineral. <i>American Mineralogist</i> , 2003 , 88, 1165-1168	2.9	122
405	Uranyl peroxide enhanced nuclear fuel corrosion in seawater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1874-7	11.5	109
404	Uranyl-peroxide interactions favor nanocluster self-assembly. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16648-9	16.4	108
403	A Revised and Expanded Structure Hierarchy of Natural and Synthetic Hexavalent Uranium Compounds. <i>Canadian Mineralogist</i> , 2016 , 54, 177-283	0.7	100
402	Uranium pyrophosphate/methylenediphosphonate polyoxometalate cage clusters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13395-402	16.4	98
401	79Se: geochemical and crystallo-chemical retardation mechanisms. <i>Journal of Nuclear Materials</i> , 1999 , 275, 81-94	3.3	98

400	Understanding the structure and formation of uranyl peroxide nanoclusters by quantum chemical calculations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14503-8	16.4	93
399	Wyartite: Crystallographic evidence for the first pentavalent-uranium mineral. <i>American Mineralogist</i> , 1999 , 84, 1456-1460	2.9	83
398	Metal-oxygen isopolyhedra assembled into fullerene topologies. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2824-7	16.4	79
397	Neptunium incorporation into uranyl compounds that form as alteration products of spent nuclear fuel: Implications for geologic repository performance. <i>Radiochimica Acta</i> , 2004 , 92,	1.9	79
396	Hybrid uranium-oxalate fullerene topology cage clusters. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7271-3	16.4	77
395	Structures of dimeric hydrolysis products of thorium. <i>Inorganic Chemistry</i> , 2007 , 46, 2368-72	5.1	76
394	Rare-earth elements in synthetic zircon: Part 2. A single-crystal X-ray study of xenotime substitution. <i>American Mineralogist</i> , 2001 , 86, 681-689	2.9	76
393	KNa ₃ (UO ₂) ₂ (Si ₄ O ₁₀) ₂ (H ₂ O) ₄ , a new compound formed during vapor hydration of an actinide-bearing borosilicate waste glass. <i>Journal of Nuclear Materials</i> , 2000 , 278, 290-300	3.3	76
392	The crystal structure of ianthinite, [U ₂₄ ⁺ (UO ₂) ₄ O ₆ (OH) ₄ (H ₂ O) ₄](H ₂ O) ₅ : a possible phase for Pu ⁴⁺ incorporation during the oxidation of spent nuclear fuel. <i>Journal of Nuclear Materials</i> , 1997 , 249, 199-206	2.3	73
391	The crystal structure of synthetic autunite, Ca[(UO ₂)(PO ₄)] ₂ (H ₂ O) ₁₁ . <i>American Mineralogist</i> , 2003 , 88, 240-244	2.9	73
390	CRYSTAL STRUCTURES AND SYNTHESIS OF THE COPPER-DOMINANT MEMBERS OF THE AUTUNITE AND META-AUTUNITE GROUPS: TORBERNITE, ZEUNERITE, METATORBERNITE AND METAZEUNERITE. <i>Canadian Mineralogist</i> , 2003 , 41, 489-502	0.7	71
389	Nanoscale uranium-based cage clusters inspired by uranium mineralogy. <i>Mineralogical Magazine</i> , 2011 , 75, 1-25	1.7	70
388	The Crystal Structure of Triuranyl Diphosphate Tetrahydrate. <i>Journal of Solid State Chemistry</i> , 2002 , 163, 275-280	3.3	70
387	Allabogdanite, (Fe,Ni) ₂ P, a new mineral from the Onello meteorite: The occurrence and crystal structure. <i>American Mineralogist</i> , 2002 , 87, 1245-1249	2.9	70
386	Syntheses and crystal structures of two topologically related modifications of Cs ₂ [(UO ₂) ₂](MoO ₄) ₃ . <i>Inorganic Chemistry</i> , 2002 , 41, 34-9	5.1	70
385	Structure of the Homoleptic Thorium(IV) Aqua Ion [Th(H ₂ O) ₁₀]Br ₄ . <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8043-5	16.4	69
384	Solubility measurements of the uranyl oxide hydrate phases metaschoepite, compregnacite, Na ₂ compreignacite, becquerelite, and clarkeite. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 980-990	2.9	67
383	NEPTUNYL COMPOUNDS: POLYHEDRON GEOMETRIES, BOND-VALENCE PARAMETERS, AND STRUCTURAL HIERARCHY. <i>Canadian Mineralogist</i> , 2008 , 46, 1623-1645	0.7	65

- 382 Thermodynamic properties of autunite, uranyl hydrogen phosphate, and uranyl orthophosphate from solubility and calorimetric measurements. *Environmental Science & Technology*, **2009**, 43, 7416-22^{10.3} 64
- 381 Synthesis, structure, and magnetism of Np(2)O(5). *Journal of the American Chemical Society*, **2007**, 129, 2760-1 16.4 60
- 380 Actinyl Peroxide Nanospheres. *Angewandte Chemie*, **2005**, 117, 2173-2177 3.6 60
- 379 Uranium **1999**, 60
- 378 Rapid self-assembly of uranyl polyhedra into crown clusters. *Journal of the American Chemical Society*, **2011**, 133, 9137-9 16.4 58
- 377 Synthesis, Structural Characterization, and Topological Rearrangement of a Novel Open Framework UO Material: (NH₄)₃(H₂O)₂[(UO₂)₁₀O₁₀(OH)][(UO₄)(H₂O)₂]. *Chemistry of Materials*, **2001**, 13, 4026-4031^{8.6} 57
- 376 Thermodynamic properties, low-temperature heat-capacity anomalies, and single-crystal X-ray refinement of hydronium jarosite, (H₃O)Fe₃(SO₄)₂(OH)₆. *Physics and Chemistry of Minerals*, **2004**, 31, 518-531 1.6 56
- 375 Uranyl peroxide oxalate cage and core-shell clusters containing 50 and 120 uranyl ions. *Inorganic Chemistry*, **2012**, 51, 2403-8 5.1 55
- 374 A novel open framework uranyl molybdate: synthesis and structure of (NH₄)₄[(UO₂)₅(MoO₄)₇](H₂O)₅. *Inorganic Chemistry*, **2003**, 42, 2459-64 5.1 55
- 373 Cs boltwoodite obtained by ion exchange from single crystals: Implications for radionuclide release in a nuclear repository. *Journal of Nuclear Materials*, **1999**, 265, 218-223 3.3 55
- 372 Captivation with encapsulation: a dozen years of exploring uranyl peroxide capsules. *Dalton Transactions*, **2018**, 47, 5916-5927 4.3 54
- 371 Thermodynamics of formation of coffinite, USiO₄. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6551-5 11.5 54
- 370 Crown and bowl-shaped clusters of uranyl polyhedra. *Inorganic Chemistry*, **2009**, 48, 10907-9 5.1 54
- 369 Time-resolved self-assembly of a fullerene-topology core-shell cluster containing 68 uranyl polyhedra. *Journal of the American Chemical Society*, **2012**, 134, 1810-6 16.4 52
- 368 Crystal Structures and Magnetic Properties of NaK₃(NpO₂)₄(SO₄)₄(H₂O)₂ and NaNpO₂SO₄H₂O: Cation-Cation Interactions in a Neptunyl Sulfate Framework. *Chemistry of Materials*, **2006**, 18, 1643-1649^{9.6} 52
- 367 Building unit and topological evolution in the hydrothermal DABCO-U-F system. *Inorganic Chemistry*, **2001**, 40, 1347-51 5.1 52
- 366 2. The Crystal Chemistry of Uranium **1999**, 23-90 52
- 365 Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. *Progress in Solid State Chemistry*, **2008**, 36, 1-133 8 51

364	Crystal Chemistry of Rubidium Uranyl Molybdates: Crystal Structures of $Rb_6[(UO_2)(MoO_4)_4]$, $Rb_6[(UO_2)_2O(MoO_4)_4]$, $Rb_2[(UO_2)(MoO_4)_2]$, $Rb_2[(UO_2)_2(MoO_4)_3]$ and $Rb_2[(UO_2)_6(MoO_4)_7(H_2O)_2]$. <i>Journal of Solid State Chemistry</i> , 2002 , 168, 245-258	3.3	50
363	THE CRYSTAL CHEMISTRY OF THE ZIPPEITE GROUP. <i>Canadian Mineralogist</i> , 2003 , 41, 687-706	0.7	50
362	Cation-cation interactions in $Sr_5(UO_2)_{20}(UO_6)_2O_{16}(OH)_6(H_2O)_6$ and $Cs(UO_2)_9U_3O_{16}(OH)_5$. <i>Inorganic Chemistry</i> , 2006 , 45, 10277-81	5.1	49
361	Structure and Reactivity of X-ray Amorphous Uranyl Peroxide, U_2O_7 . <i>Inorganic Chemistry</i> , 2016 , 55, 3541-561	5.1	48
360	Combinatorial topology of uranyl molybdate sheets: syntheses and crystal structures of $(C_6H_{14}N_2)_3[(UO_2)_5(MoO_4)_8](H_2O)_4$ and $(C_2H_{10}N_2)[(UO_2)(MoO_4)_2]$. <i>Journal of Solid State Chemistry</i> , 2003 , 170, 106-117	3.3	48
359	Cerium(IV), neptunium(IV), and plutonium(IV) 1,2-phenylenediphosphonates: correlations and differences between early transuranium elements and their proposed surrogates. <i>Inorganic Chemistry</i> , 2010 , 49, 10074-80	5.1	47
358	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. III. NEW STRUCTURAL THEMES IN $Na_6[(UO_2)_2O(MoO_4)_4]$, $Na_6[(UO_2)(MoO_4)_4]$ AND $K_6[(UO_2)_2O(MoO_4)_4]$. <i>Canadian Mineralogist</i> , 2001 , 39, 197-206	0.7	47
357	Water-soluble multi-cage super tetrahedral uranyl peroxide phosphate clusters. <i>Chemical Science</i> , 2014 , 5, 303-310	9.4	46
356	MONOVALENT CATIONS IN STRUCTURES OF THE META-AUTUNITE GROUP. <i>Canadian Mineralogist</i> , 2004 , 42, 973-996	0.7	46
355	Crystal chemistry of basic lead carbonates. II. Crystal structure of synthetic plumbonacrite. <i>Mineralogical Magazine</i> , 2000 , 64, 1069-1075	1.7	46
354	Uranium Mineralogy and Neptunium Mobility. <i>Elements</i> , 2006 , 2, 351-356	3.8	45
353	Crystal Structures of Three Framework Alkali Metal Uranyl Phosphate Hydrates. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 226-236	3.3	45
352	Near-field behavior of ^{99}Tc during the oxidative alteration of spent nuclear fuel. <i>Journal of Nuclear Materials</i> , 2000 , 278, 225-232	3.3	45
351	Structural topology of potassium uranyl chromates: crystal structures of $K_8[(UO_2)(CrO_4)_4](NO_3)_2$, $K_5[(UO_2)(CrO_4)_3](NO_3)(H_2O)_3$, $K_4[(UO_2)_3(CrO_4)_5](H_2O)_8$ and $K_2[(UO_2)_2(CrO_4)_3(H_2O)_2](H_2O)_4$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2003 , 218,	1	44
350	Raman spectroscopic and ESI-MS characterization of uranyl peroxide cage clusters. <i>Inorganic Chemistry</i> , 2014 , 53, 1562-9	5.1	43
349	Thermodynamic properties of soddyite from solubility and calorimetry measurements. <i>Journal of Chemical Thermodynamics</i> , 2007 , 39, 568-575	2.9	43
348	A Novel Uranyl Sulfate Cluster in the Structure of $Na_6(UO_2)(SO_4)_4(H_2O)_2$. <i>Journal of Solid State Chemistry</i> , 2002 , 163, 313-318	3.3	43
347	Chiral open-framework uranyl molybdates. 1. Topological diversity: synthesis and crystal structure of $[(C_2H_5)_2NH_2]_2[(UO_2)_4(MoO_4)_5(H_2O)](H_2O)$. <i>Microporous and Mesoporous Materials</i> , 2005 , 78, 209-215	5.3	42

- 346 A RE-EVALUATION OF THE STRUCTURE OF WEEKSITE, A URANYL SILICATE FRAMEWORK MINERAL. *Canadian Mineralogist*, **2001**, 39, 187-195 0.7 42
- 345 Ultrafiltration of uranyl peroxide nanoclusters for the separation of uranium from aqueous solution. *ACS Applied Materials & Interfaces*, **2014**, 6, 473-9 9.5 41
- 344 U(VI) uranyl cation-cation interactions in framework germanates. *Inorganic Chemistry*, **2011**, 50, 2272-7 5.1 41
- 343 Contribution to the mineralogy of acid drainage of Uranium minerals: Marecottite and the zippeite-group. *American Mineralogist*, **2003**, 88, 676-685 2.9 41
- 342 The structures of becquerelite and Sr-exchanged becquerelite. *American Mineralogist*, **2002**, 87, 550-557 2.9 41
- 341 Supramolecular inclusion-based molecular integral rigidity: a feasible strategy for controlling the structural connectivity of uranyl polyrotaxane networks. *Chemical Communications*, **2015**, 51, 11990-3 5.8 40
- 340 Cation templating and electronic structure effects in uranyl cage clusters probed by the isolation of peroxide-bridged uranyl dimers. *Inorganic Chemistry*, **2015**, 54, 4445-55 5.1 40
- 339 Trace element and U isotope analysis of uraninite and ore concentrate: Applications for nuclear forensic investigations. *Applied Geochemistry*, **2017**, 84, 277-285 3.5 40
- 338 Uranyl peroxide closed clusters containing topological squares. *Dalton Transactions*, **2010**, 39, 5807-13 4.3 40
- 337 Complex nanoscale cage clusters built from uranyl polyhedra and phosphate tetrahedra. *Inorganic Chemistry*, **2011**, 50, 5509-16 5.1 39
- 336 Neptunium incorporation in sodium-substituted metaschoepite. *American Mineralogist*, **2007**, 92, 662-669 2.9 39
- 335 Syntheses, structures, characterizations and charge-density matching of novel amino-templated uranyl selenates. *Journal of Solid State Chemistry*, **2009**, 182, 402-408 3.3 38
- 334 Geometrical isomerism in uranyl chromates I. Crystal structures of $(\text{UO}_2)(\text{CrO}_4)(\text{H}_2\text{O})_2$, $[(\text{UO}_2)(\text{CrO}_4)(\text{H}_2\text{O})_2](\text{H}_2\text{O})$ and $[(\text{UO}_2)(\text{CrO}_4)(\text{H}_2\text{O})_2]_4(\text{H}_2\text{O})_9$. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2003**, 218, 1-10 1 38
- 333 An unprecedented uranyl phosphate framework in the structure of $[(\text{UO}_2)_3(\text{PO}_4)\text{O}(\text{OH})(\text{H}_2\text{O})_2](\text{H}_2\text{O})$. *Inorganic Chemistry*, **2004**, 43, 1816-8 5.1 38
- 332 CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. V. TOPOLOGICALLY DISTINCT URANYL DIMOLYBDATE SHEETS IN THE STRUCTURES OF $\text{Na}_2[(\text{UO}_2)(\text{MoO}_4)_2]$ AND $\text{K}_2[(\text{UO}_2)(\text{MoO}_4)_2](\text{H}_2\text{O})$. *Canadian Mineralogist*, **2002**, 40, 193-200 0.7 38
- 331 Copper(I) and copper(II) uranyl heterometallic hybrid materials. *Inorganic Chemistry*, **2014**, 53, 7993-8 5.1 37
- 330 Expanding the crystal chemistry of uranyl peroxides: synthesis and structures of di- and triperoxodioxouranium(VI) complexes. *Inorganic Chemistry*, **2007**, 46, 3657-62 5.1 37
- 329 Cation-Cation Interactions and Antiferromagnetism in $\text{Na}[\text{Np}(\text{V})\text{O}_2(\text{OH})_2]$: Synthesis, Structure, and Magnetic Properties. *Chemistry of Materials*, **2007**, 19, 280-285 9.6 37

328	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. VIII. CRYSTAL STRUCTURES OF $\text{Na}_3\text{Ti}_3[(\text{UO}_2)(\text{MoO}_4)_4]$, $\text{Na}_{13-x}\text{Ti}_3+x[(\text{UO}_2)(\text{MoO}_4)_3]_4(\text{H}_2\text{O})_{6+x}$ ($x = 0.1$), $\text{Na}_3\text{Ti}_5[(\text{UO}_2)(\text{MoO}_4)_3]_2(\text{H}_2\text{O})_3$ AND $\text{Na}_2[(\text{UO}_2)(\text{MoO}_4)_2](\text{H}_2\text{O})_4$. <i>Canadian Mineralogist</i> , 2003 , 41, 707-719	0.7	37
327	Structures and syntheses of layered and framework amine-bearing uranyl phosphate and uranyl arsenates. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 2675-2684	3.3	37
326	Revised Tl(I) D_{3h} bond valence parameters and the structures of thallos dichromate and thallos uranyl phosphate hydrate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219,	1	37
325	Description and classification of uranium oxide hydrate sheet anion topologies. <i>Journal of Materials Research</i> , 1996 , 11, 3048-3056	2.5	37
324	Tuning the thermal conductivity of solar cell polymers through side chain engineering. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7764-71	3.6	36
323	Low-symmetry uranyl pyrophosphate cage clusters. <i>Chemistry - A European Journal</i> , 2011 , 17, 2571-4	4.8	36
322	Thermodynamics of uranyl minerals: Enthalpies of formation of uranyl oxide hydrates. <i>American Mineralogist</i> , 2006 , 91, 658-666	2.9	36
321	Structures and syntheses of framework triuranyl diarsenate hydrates. <i>Journal of Solid State Chemistry</i> , 2003 , 176, 18-26	3.3	36
320	Synthesis and structure of $\text{Ag}_6[(\text{UO}_2)_3\text{O}(\text{MoO}_4)_5]$: a novel sheet of triuranyl clusters and MoO_4 tetrahedra. <i>Inorganic Chemistry</i> , 2002 , 41, 4108-10	5.1	36
319	Thermodynamic studies of studtite thermal decomposition pathways via amorphous intermediates UO_3 , U_2O_7 , and UO_4 . <i>Journal of Nuclear Materials</i> , 2016 , 478, 158-163	3.3	35
318	Neptunium substitution in synthetic uranophane and soddyite. <i>American Mineralogist</i> , 2007 , 92, 1946-1954	3.3	35
317	The structures of two sodium uranyl compounds relevant to nuclear waste disposal. <i>Journal of Nuclear Materials</i> , 2001 , 299, 219-226	3.3	35
316	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. IV. THE STRUCTURES OF $\text{M}_2[(\text{UO}_2)_6(\text{MoO}_4)_7(\text{H}_2\text{O})_2]$ ($\text{M} = \text{Cs}, \text{NH}_4$). <i>Canadian Mineralogist</i> , 2001 , 39, 207-214	0.7	35
315	One-dimensional uranyl-2,2'-bipyridine coordination polymer with cation-cation interactions: $(\text{UO}_2)_2(2,2'\text{-bpy})(\text{CH}_3\text{CO}_2)(\text{O})(\text{OH})$. <i>Inorganic Chemistry</i> , 2012 , 51, 11177-83	5.1	34
314	Isotopic fingerprinting of the world's first nuclear device using post-detonation materials. <i>Analytical Chemistry</i> , 2013 , 85, 4195-8	7.8	34
313	Geometrical isomerism in uranyl chromates II. Crystal structures of $\text{Mg}_2[(\text{UO}_2)_3(\text{CrO}_4)_5](\text{H}_2\text{O})_{17}$ and $\text{Ca}_2[(\text{UO}_2)_3(\text{CrO}_4)_5](\text{H}_2\text{O})_{19}$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2003 , 218,	1	34
312	Crystal Chemistry of Lead Oxide Hydroxide Nitrates. <i>Journal of Solid State Chemistry</i> , 2001 , 158, 74-77	3.3	34
311	A NEW URANYL SULFATE CHAIN IN THE STRUCTURE OF URANOPILITE. <i>Canadian Mineralogist</i> , 2001 , 39, 1139-1146	0.7	34

310	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. VI. NEW URANYL MOLYBDATE UNITS IN THE STRUCTURES OF Cs ₄ [(UO ₂) ₃ O(MoO ₄) ₂ (MoO ₅)] AND Cs ₆ [(UO ₂)(MoO ₄) ₄]. <i>Canadian Mineralogist</i> , 2002 , 40, 201-209	0.7	34
309	(UO ₂) ₂ [UO ₄ (trz) ₂](OH) ₂ : a U(VI) coordination intermediate between a tetraoxido core and a uranyl ion with cation-cation interactions. <i>Inorganic Chemistry</i> , 2012 , 51, 7185-91	5.1	33
308	Photochemical water oxidation and origin of nonaqueous uranyl peroxide complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4797-800	16.4	32
307	Series of uranyl-4,4'-biphenyldicarboxylates and an occurrence of a cation-cation interaction: hydrothermal synthesis and in situ Raman studies. <i>Inorganic Chemistry</i> , 2013 , 52, 9487-95	5.1	32
306	Crystal Chemistry of Lead Oxide Hydroxide Nitrates I. The Crystal Structure of [Pb ₆ O ₄](OH)(NO ₃)(CO ₃). <i>Journal of Solid State Chemistry</i> , 2000 , 153, 365-370	3.3	32
305	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. I. THE STRUCTURE AND FORMULA OF UMOHOITE. <i>Canadian Mineralogist</i> , 2000 , 38, 717-726	0.7	32
304	Experimental and computational study of a new wheel-shaped {[W ₅ O ₂₁] ₃ [(U(VI)O) ₂ (EO ₂) ₃] ₃ } ₃₀ -polyoxometalate. <i>Inorganic Chemistry</i> , 2012 , 51, 8784-90	5.1	31
303	Syntheses, structures, and characterization of open-framework uranyl germanates. <i>Inorganic Chemistry</i> , 2010 , 49, 7123-8	5.1	31
302	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	2.9	31
301	Chiral open-framework uranyl molybdates. 3. Synthesis, structure and the C2221-P212121 low-temperature phase transition of [C ₆ H ₁₆ N] ₂ [(UO ₂) ₆ (MoO ₄) ₇ (H ₂ O) ₂](H ₂ O) ₂ . <i>Microporous and Mesoporous Materials</i> , 2005 , 78, 225-234	5.3	31
300	Crystal chemistry of lead oxide chlorides. I. Crystal structures of synthetic mendipite, Pb ₃ O ₂ Cl ₂ , and synthetic damaraite, Pb ₃ O ₂ (OH)Cl. <i>European Journal of Mineralogy</i> , 2001 , 13, 801-809	2.2	31
299	Thermal Responsive Ion Selectivity of Uranyl Peroxide Nanocages: An Inorganic Mimic of K(+) Ion Channels. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6887-91	16.4	30
298	Cation-Dependent Hierarchical Assembly of U ₆₀ Nanoclusters into Macro-Ion Assemblies Imaged via Cryogenic Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 191-8	16.4	30
297	Time-resolved assembly of chiral uranyl peroxo cage clusters containing belts of polyhedra. <i>Inorganic Chemistry</i> , 2013 , 52, 337-45	5.1	30
296	Dynamics of a nanometer-sized uranyl cluster in solution. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7464-7	16.4	30
295	Particular topological complexity of lead oxide blocks in Pb ₃₁ O ₂₂ X ₁₈ (X = Br, Cl). <i>Inorganic Chemistry</i> , 2006 , 45, 3846-8	5.1	30
294	Computationally-Guided Assignment of Unexpected Signals in the Raman Spectra of Uranyl Triperoxide Complexes. <i>Inorganic Chemistry</i> , 2017 , 56, 1574-1580	5.1	29
293	Structures and synthesis of framework Rb and Cs uranyl arsenates and their relationships with their phosphate analogues. <i>Journal of Solid State Chemistry</i> , 2003 , 175, 372-379	3.3	29

292	THE CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. II. THE CRYSTAL STRUCTURE OF IRIGINITE. <i>Canadian Mineralogist</i> , 2000 , 38, 847-851	0.7	29
291	Chemical and Sr isotopic characterization of North America uranium ores: Nuclear forensic applications. <i>Applied Geochemistry</i> , 2016 , 74, 24-32	3.5	29
290	In Situ Formation of Unprecedented Neptunium-Oxide Wheel Clusters Stabilized in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11842-11846	16.4	28
289	A detailed geochemical investigation of post-nuclear detonation trinitite glass at high spatial resolution: Delineating anthropogenic vs. natural components. <i>Chemical Geology</i> , 2014 , 365, 69-86	4.2	28
288	Thermodynamic characterization of boltwoodite and uranophane: Enthalpy of formation and aqueous solubility. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 5269-5282	5.5	28
287	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	3.3	28
286	A NEW URANYL SILICATE SHEET IN THE STRUCTURE OF HAIWEEITE AND COMPARISON TO OTHER URANYL SILICATES. <i>Canadian Mineralogist</i> , 2001 , 39, 1153-1160	0.7	28
285	A new uranyl oxide hydrate sheet in vandendriesscheite; implications for mineral paragenesis and the corrosion of spent nuclear fuel. <i>American Mineralogist</i> , 1997 , 82, 1176-1186	2.9	28
284	Self-Assembly of Uranyl-Peroxide Nanocapsules in Basic Peroxidic Environments. <i>Chemistry - A European Journal</i> , 2016 , 22, 8571-8	4.8	28
283	Uranyl-organic complexes: structure symbols, classification of carboxylates, and uranyl polyhedral geometries. <i>Crystallography Reviews</i> , 2006 , 12, 205-255	1.3	27
282	DIVALENT TRANSITION METALS AND MAGNESIUM IN STRUCTURES THAT CONTAIN THE AUTUNITE-TYPE SHEET. <i>Canadian Mineralogist</i> , 2004 , 42, 1699-1718	0.7	27
281	A new uranyl phosphate chain in the structure of parsonsite. <i>American Mineralogist</i> , 2000 , 85, 801-805	2.9	27
280	Solution (31)P NMR Study of the Acid-Catalyzed Formation of a Highly Charged {U ₂₄ Pp ₁₂ } Nanocluster, [(UO ₂) ₂₄ (O ₂) ₂₄ (P ₂ O ₇) ₁₂](48-), and Its Structural Characterization in the Solid State Using Single-Crystal Neutron Diffraction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8547-53	16.4	26
279	Selective Permeability of Uranyl Peroxide Nanocages to Different Alkali Ions: Influences from Surface Pores and Hydration Shells. <i>Chemistry - A European Journal</i> , 2015 , 21, 18785-90	4.8	26
278	Advances in actinide solid-state and coordination chemistry. <i>MRS Bulletin</i> , 2010 , 35, 868-876	3.2	26
277	Chiral open-framework uranyl molybdates. 2. Flexibility of the U:Mo = 6:7 frameworks: syntheses and crystal structures of (UO ₂) _{0.82} [C ₈ H ₂₀ N] _{0.36} [(UO ₂) ₆ (MoO ₄) ₇ (H ₂ O) ₂](H ₂ O) _n and [C ₆ H ₁₄ N ₂][(UO ₂) ₆ (MoO ₄) ₇ (H ₂ O) ₂](H ₂ O) _m . <i>Microporous and Mesoporous Materials</i> , 2005 , 78, 217-224	5.3	26
276	Thermodynamics of uranyl minerals: Enthalpies of formation of rutherfordine, UO ₂ CO ₃ , andersonite, Na ₂ CaUO ₂ (CO ₃) ₃ (H ₂ O) ₅ , and grimselite, K ₃ NaUO ₂ (CO ₃) ₃ H ₂ O. <i>American Mineralogist</i> , 2005 , 90, 1284-1290	2.9	26
275	Crystal Chemistry of Lead Oxide Hydroxide Nitrates. <i>Journal of Solid State Chemistry</i> , 2001 , 158, 78-81	3.3	26

- 274 Processing used nuclear fuel with nanoscale control of uranium and ultrafiltration. *Journal of Nuclear Materials*, **2016**, 473, 125-130 3.3 26
- 273 Uranyl Peroxide Cage Cluster Solubility in Water and the Role of the Electrical Double Layer. *Inorganic Chemistry*, **2017**, 56, 1333-1339 5.1 25
- 272 Hybrid uranyl-vanadium nano-wheels. *Chemical Communications*, **2015**, 51, 10134-7 5.8 25
- 271 Multi-body coalescence in Pickering emulsions. *Nature Communications*, **2015**, 6, 5929 17.4 25
- 270 THE SHARING OF AN EDGE BETWEEN A URANYL PENTAGONAL BIPYRAMID AND SULFATE TETRAHEDRON IN THE STRUCTURE OF $\text{KNa}_5[(\text{UO}_2)(\text{SO}_4)_4](\text{H}_2\text{O})$. *Canadian Mineralogist*, **2002**, 40, 211-216 0.7 25
- 269 A novel rigid uranyl tungstate sheet in the structures of $\text{Na}_2[(\text{UO}_2)\text{W}_2\text{O}_8]$ and $\text{BaAg}_2[(\text{UO}_2)\text{W}_2\text{O}_8]$. *Solid State Sciences*, **2003**, 5, 373-381 3.4 25
- 268 A multi-method approach for determination of radionuclide distribution in trinitite. *Journal of Radioanalytical and Nuclear Chemistry*, **2013**, 298, 993-1003 1.5 24
- 267 Hybrid uranium-transition-metal oxide cage clusters. *Inorganic Chemistry*, **2014**, 53, 12877-84 5.1 24
- 266 The role of cation-anion interactions in a neptunyl chloride hydrate and topological aspects of neptunyl structural units. *Journal of Solid State Chemistry*, **2007**, 180, 106-112 3.3 24
- 265 Expanding the crystal chemistry of actinyl peroxides: open sheets of uranyl polyhedra in $\text{Na}_5[(\text{UO}_2)_3(\text{O}_2)_4(\text{OH})_3](\text{H}_2\text{O})_{13}$. *Inorganic Chemistry*, **2006**, 45, 6096-8 5.1 24
- 264 The First Sodium Uranyl Chromate, $\text{Na}_4[(\text{UO}_2)(\text{CrO}_4)_3]$: Synthesis and Crystal Structure Determination. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2003**, 629, 1965-1968 1.3 24
- 263 A NEW URANYL SHEET IN $\text{K}_5[(\text{UO}_2)_{10}\text{O}_8(\text{OH})_9](\text{H}_2\text{O})$: NEW INSIGHT INTO SHEET ANION-TOPOLOGIES. *Canadian Mineralogist*, **2000**, 38, 163-173 0.7 24
- 262 Uranyl peroxide pyrophosphate cage clusters with oxalate and nitrate bridges. *Dalton Transactions*, **2012**, 41, 7278-84 4.3 23
- 261 The role of water in the structures of synthetic hallimondite, $\text{Pb}_2[(\text{UO}_2)(\text{AsO}_4)_2](\text{H}_2\text{O})_n$ and synthetic parsonsite, $\text{Pb}_2[(\text{UO}_2)(\text{PO}_4)_2](\text{H}_2\text{O})_n$, $0 \leq n \leq 5$. *American Mineralogist*, **2005**, 90, 240-246 2.9 23
- 260 A new uranyl carbonate sheet in the crystal structure of fontanite, $\text{Ca}[(\text{UO}_2)_3(\text{CO}_3)_2\text{O}_2](\text{H}_2\text{O})_6$. *American Mineralogist*, **2003**, 88, 962-966 2.9 23
- 259 A new polytype of orthoboric acid, $\text{H}(3)\text{BO}(3)-3\text{T}$. *Acta Crystallographica Section C: Crystal Structure Communications*, **2003**, 59, i47-9 2.3
- 258 Crystal chemistry of basic lead carbonates. III. Crystal structures of $\text{Pb}_3\text{O}_2(\text{CO}_3)$ and $\text{NaPb}_2(\text{OH})(\text{CO}_3)_2$. *Mineralogical Magazine*, **2000**, 64, 1077-1087 1.7 23
- 257 Hybrid uranyl-carboxyphosphonate cage clusters. *Inorganic Chemistry*, **2013**, 52, 7673-9 5.1 22

256	REFINEMENT OF THE CRYSTAL STRUCTURE OF BILLIETITE, Ba [(UO ₂) ₆ O ₄ (OH) ₆](H ₂ O) ₈ . <i>Canadian Mineralogist</i> , 2006 , 44, 1197-1205	0.7	22
255	Expanding the Schulze-Hardy Rule and the Hofmeister Series to Nanometer-Scaled Hydrophilic Macroions. <i>Chemistry - A European Journal</i> , 2018 , 24, 5479-5483	4.8	21
254	Complexity of Uranyl Peroxide Cluster Speciation from Alkali-Directed Oxidative Dissolution of Uranium Dioxide. <i>Inorganic Chemistry</i> , 2018 , 57, 9296-9305	5.1	21
253	Uranyl Peroxide Nanocapsules in Aqueous Solution: Force Field Development and First Applications. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24730-24740	3.8	21
252	Cage clusters built from uranyl ions bridged through peroxy and 1-hydroxyethane-1,1-diphosphonic acid ligands. <i>Dalton Transactions</i> , 2013 , 42, 6793-802	4.3	21
251	Expanding the crystal chemistry of uranyl peroxides: four hybrid uranyl-peroxide structures containing EDTA. <i>Inorganic Chemistry</i> , 2014 , 53, 12084-91	5.1	21
250	Correlations and differences between uranium(VI) arsonates and phosphonates. <i>Inorganic Chemistry</i> , 2012 , 51, 12032-40	5.1	21
249	Synthesis and Crystal Structure of Pb ₃ O ₂ (SeO ₃). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004 , 630, 558-562	1.3	21
248	Investigations into the vertical distribution of PCDDs and mineralogy in three ball clay cores from the United States exhibiting the natural formation pattern. <i>Environmental Science & Technology</i> , 2004 , 38, 4956-63	10.3	21
247	Ewingite: Earth's most complex mineral. <i>Geology</i> , 2017 , 45, 1007-1010	5	20
246	Synthesis of a uranyl persulfide complex and quantum chemical studies of formation and topologies of hypothetical uranyl persulfide cage clusters. <i>Inorganic Chemistry</i> , 2012 , 51, 7801-9	5.1	20
245	Crystal Structure of K[UO ₂ (NO ₃) ₃] and Some Features of Compounds M[UO ₂ (NO ₃) ₃] (M = K, Rb, and Cs). <i>Radiochemistry</i> , 2004 , 46, 16-19	0.9	20
244	Synthesis and crystal structure of Li ₂ [(UO ₂)(MoO ₄) ₂], a uranyl molybdate with chains of corner-sharing uranyl square bipyramids and MoO ₄ tetrahedra. <i>Solid State Sciences</i> , 2003 , 5, 481-485	3.4	20
243	Syntheses, Structures, Magnetic Properties, and X-ray Absorption Spectra of Carnotite-type Uranyl Chromium(V) Oxides: A[(UO ₂) ₂ Cr ₂ O ₈](H ₂ O) _n (A = K ₂ , Rb ₂ , Cs ₂ , Mg; n = 0, 4). <i>Chemistry of Materials</i> , 2004 , 16, 1384-1390	9.6	20
242	The crystal structure of Na ₄ (UO ₂)(CO ₃) ₃ and its relationship to schrankingerite. <i>Mineralogical Magazine</i> , 2001 , 65, 297-304	1.7	20
241	Micro-structures associated with uraninite alteration. <i>Journal of Nuclear Materials</i> , 2000 , 277, 204-210	3.3	20
240	INVESTIGATIONS OF CRYSTAL-CHEMICAL VARIABILITY IN LEAD URANYL OXIDE HYDRATES. I. CURITE. <i>Canadian Mineralogist</i> , 2000 , 38, 727-735	0.7	20
239	Crystal chemistry of basic lead carbonates. I. Crystal structure of synthetic shannonite, Pb ₂ O(CO ₃). <i>Mineralogical Magazine</i> , 2000 , 64, 1063-1068	1.7	20

238	A NEW RARE-EARTH-ELEMENT URANYL CARBONATE SHEET IN THE STRUCTURE OF BIJVOETITE-(Y). <i>Canadian Mineralogist</i> , 2000 , 38, 153-162	0.7	20
237	A new complex sheet of uranyl polyhedra in the structure of wäbendorfite. <i>American Mineralogist</i> , 1999 , 84, 1661-1673	2.9	20
236	A novel nuclear forensic tool involving deposit type normalized rare earth element signatures. <i>Terra Nova</i> , 2017 , 29, 294-305	3	19
235	Incorporation of Cu(2+) ions into nanotubular uranyl diphosphonates. <i>Inorganic Chemistry</i> , 2014 , 53, 4169-76	3.76	19
234	The crystal chemistry of four thorium sulfates. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 1591-1597	3.3	19
233	From extended solids to nano-scale actinide clusters. <i>Comptes Rendus Chimie</i> , 2010 , 13, 737-746	2.7	19
232	Crystal chemistry of lead oxide phosphates: crystal structures of Pb4O(PO4)2, Pb8O5(PO4)2 and Pb10(PO4)6O. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2003 , 218,	1	19
231	Uranyl dinitrate trihydrate, UO2(NO3)2(H2O)3. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003 , 59, i7-8		19
230	Unprecedented Radiation Resistant Thorium-Binaphthol Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13299-13304	16.4	19
229	Rare-earth element fractionation in uranium ore and its U(VI) alteration minerals. <i>Applied Geochemistry</i> , 2017 , 87, 84-92	3.5	18
228	Lead isotopic composition of trinitite melt glass: evidence for the presence of Canadian industrial lead in the first atomic weapon test. <i>Analytical Chemistry</i> , 2013 , 85, 7588-93	7.8	18
227	Single-Crystal Time-of-Flight Neutron Diffraction and Magic-Angle-Spinning NMR Spectroscopy Resolve the Structure and H and Li Dynamics of the Uranyl Peroxide Nanocluster U. <i>Inorganic Chemistry</i> , 2017 , 56, 9676-9683	5.1	18
226	Incorporation of Np(V) and U(VI) in carbonate and sulfate minerals crystallized from aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 151, 133-149	5.5	18
225	Uranium(VI) tetraoxido core coordinated by bidentate nitrate. <i>Inorganic Chemistry</i> , 2010 , 49, 6793-5	5.1	18
224	Ba(NpO2)(PO4)(H2O), its relationship to the uranophane group, and implications for Np incorporation in uranyl minerals. <i>American Mineralogist</i> , 2006 , 91, 1089-1093	2.9	18
223	Nanostructured actinide compounds. <i>Journal of Alloys and Compounds</i> , 2007 , 444-445, 457-463	5.7	18
222	Experimental measurements of U6O nanocluster stability in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 156, 94-105	5.5	17
221	Time-Resolved X-ray Scattering and Raman Spectroscopic Studies of Formation of a Uranium-Vanadium-Phosphorus-Peroxide Cage Cluster. <i>Inorganic Chemistry</i> , 2016 , 55, 7061-7	5.1	17

220	Oxo Clusters of 5f Elements. <i>Structure and Bonding</i> , 2016 , 121-153	0.9	17
219	Synthesis and characterization of uranyl chromate sheet compounds containing edge-sharing dimers of uranyl pentagonal bipyramids. <i>Journal of Solid State Chemistry</i> , 2012 , 186, 158-164	3.3	17
218	Distribution and behavior of some radionuclides associated with the Trinity nuclear test. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 295, 2049-2057	1.5	17
217	Synthesis and characterization of the first 2D neptunyl structure stabilized by side-on cation-cation interactions. <i>Chemistry - A European Journal</i> , 2013 , 19, 2937-41	4.8	17
216	CRYSTAL STRUCTURES OF SIX NEW URANYL SELENATE AND SELENITE COMPOUNDS AND THEIR RELATIONSHIP WITH URANYL MINERAL STRUCTURES. <i>Canadian Mineralogist</i> , 2012 , 50, 147-157	0.7	17
215	Crystal chemistry of thorium nitrates and chromates. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 1604-1608	0.9	17
214	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. XI. CRYSTAL STRUCTURES OF Cs ₂ [(UO ₂)(MoO ₄) ₂] AND Cs ₂ [(UO ₂)(MoO ₄) ₂](H ₂ O). <i>Canadian Mineralogist</i> , 2005 , 43, 713-720	0.7	17
213	A uranyl sulfate cluster in Na ₁₀ [(UO ₂)(SO ₄) ₄](SO ₄) ₂ .3H ₂ O. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002 , 58, i121-3		17
212	STRUCTURES OF STRONTIUM- AND BARIUM-DOMINANT COMPOUNDS THAT CONTAIN THE AUTUNITE-TYPE SHEET. <i>Canadian Mineralogist</i> , 2005 , 43, 721-733	0.7	17
211	Hierarchy of Pyrophosphate-Functionalized Uranyl Peroxide Nanocluster Synthesis. <i>Inorganic Chemistry</i> , 2017 , 56, 5478-5487	5.1	16
210	The Propensity of Uranium-Peroxide Systems to Preserve Nanosized Assemblies. <i>Inorganic Chemistry</i> , 2017 , 56, 9602-9608	5.1	16
209	Single-crystal elastic properties of alunite, KAl ₃ (SO ₄) ₂ (OH) ₆ . <i>Physics and Chemistry of Minerals</i> , 2006 , 33, 567-573	1.6	16
208	Lone electron pair stereoactivity, cation arrangements and distortion of heteropolyhedral sheets in the structures of Tl ₂ [(UO ₂)(AO ₄) ₂] (A = Cr, Mo). <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005 , 220,	1	16
207	New Structural Arrangements in Three Ca Uranyl Carbonate Compounds with Multiple Anionic Species. <i>Journal of Solid State Chemistry</i> , 2002 , 166, 219-228	3.3	16
206	THE CRYSTAL STRUCTURE OF SYNTHETIC GRIMSELITE, K ₃ Na[(UO ₂)(CO ₃) ₃](H ₂ O). <i>Canadian Mineralogist</i> , 2001 , 39, 1147-1151	0.7	16
205	A TOPOLOGICALLY NOVEL SHEET OF URANYL PENTAGONAL BIPYRAMIDS IN THE STRUCTURE OF Na[(UO ₂) ₄ O ₂ (OH) ₅](H ₂ O) ₂ . <i>Canadian Mineralogist</i> , 2002 , 40, 1579-1586	0.7	16
204	Crystal chemistry of lead oxide chlorides. II. Crystal structure of Pb ₇ O ₄ (OH) ₄ Cl ₂ . <i>European Journal of Mineralogy</i> , 2002 , 14, 135-139	2.2	16
203	IMPLICATIONS OF THE SYNTHESIS AND STRUCTURE OF THE Sr ANALOGUE OF CURITE. <i>Canadian Mineralogist</i> , 2000 , 38, 175-181	0.7	16

202	Use of 2,2-Bipyrimidine for the Preparation of UO ₂ ²⁺ -3d Diphosphonates. <i>Crystal Growth and Design</i> , 2014 , 14, 5692-5699	3.5	15
201	Benchmarking Uranyl Peroxide Capsule Chemistry in Organic Media. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 39-46	2.3	15
200	Synthesis, structure, and infrared spectroscopy of the first Np ⁵⁺ neptunyl silicates, Li ₆ (NpO ₂) ₄ (H ₂ Si ₂ O ₇)(HSiO ₄) ₂ (H ₂ O) ₄ and K ₃ (NpO ₂) ₃ (Si ₂ O ₇). <i>Inorganic Chemistry</i> , 2008 , 47, 705-12	5.1	15
199	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, 7163-8	5.1	15
198	Actinide compounds containing hexavalent cations of the VI group elements (S, Se, Mo, Cr, W) 2007 , 95-182		15
197	THE CRYSTAL STRUCTURES OF X(NpO ₂)(PO ₄)(H ₂ O) ₃ (X = K ⁺ , Na ⁺ , Rb ⁺ , NH ₄ ⁺) AND THEIR RELATIONSHIP TO THE AUTUNITE GROUP. <i>Canadian Mineralogist</i> , 2007 , 45, 471-477	0.7	15
196	NEW Cu ²⁺ COORDINATION POLYHEDRA IN THE CRYSTAL STRUCTURE OF BURNSITE, KCdCu ₇ O ₂ (SeO ₃) ₂ Cl ₉ . <i>Canadian Mineralogist</i> , 2002 , 40, 1587-1595	0.7	15
195	Quetzalcoatlite: A new octahedral-tetrahedral structure from a 2 × 40 × 3 crystal at the Advanced Photon Source-GSE-CARS Facility. <i>American Mineralogist</i> , 2000 , 85, 604-607	2.9	15
194	The A-site deficient ordered perovskite Th _{0.25} U _{0.75} NbO ₃ : a re-investigation. <i>Journal of Alloys and Compounds</i> , 2000 , 307, 149-156	5.7	15
193	Charge Density Influence on Enthalpy of Formation of Uranyl Peroxide Cage Cluster Salts. <i>Inorganic Chemistry</i> , 2018 , 57, 11456-11462	5.1	15
192	Porous Uranium Diphosphonate Frameworks with Trinuclear Units Templated by Organic Ammonium Hydrolyzed from Amine Solvents. <i>Inorganic Chemistry</i> , 2017 , 56, 13249-13256	5.1	14
191	An Unprecedented Two-Fold Nested Super-Polyrotaxane: Sulfate-Directed Hierarchical Polythreading Assembly of Uranyl Polyrotaxane Moieties. <i>Chemistry - A European Journal</i> , 2016 , 22, 11329-38	4.8	14
190	Hydrothermal syntheses and structures of the uranyl tellurates AgUO ₂ (HTeO ₅) and Pb ₂ UO ₂ (TeO ₆). <i>Journal of Solid State Chemistry</i> , 2011 , 184, 401-404	3.3	14
189	Structural units in three uranyl perrhenates. <i>Inorganic Chemistry</i> , 2007 , 46, 10108-13	5.1	14
188	The structure and synthesis of plutonium(III) chlorides from aqueous solution. <i>Inorganic Chemistry</i> , 2006 , 45, 8483-5	5.1	14
187	CHAINS OF EDGE-SHARING OPb ₄ TETRAHEDRA IN THE STRUCTURE OF Pb ₄ O(VO ₄) ₂ AND IN RELATED MINERALS AND INORGANIC COMPOUNDS. <i>Canadian Mineralogist</i> , 2003 , 41, 951-958	0.7	14
186	Nuclear forensic applications involving high spatial resolution analysis of Trinitite cross-sections. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 306, 457-467	1.5	13
185	Thermal Responsive Ion Selectivity of Uranyl Peroxide Nanocages: An Inorganic Mimic of K ⁺ Ion Channels. <i>Angewandte Chemie</i> , 2016 , 128, 7001-7005	3.6	13

184	Hybrid Lanthanide-Actinide Peroxide Cage Clusters. <i>Inorganic Chemistry</i> , 2016 , 55, 2682-4	5.1	13
183	Effects of ionic liquid media on the cation selectivity of uranyl structural units in five new compounds produced using the ionothermal technique. <i>CrystEngComm</i> , 2014 , 16, 7236-7243	3.3	13
182	Cation-cation interactions and cation exchange in a series of isostructural framework uranyl tungstates. <i>Journal of Solid State Chemistry</i> , 2014 , 213, 1-8	3.3	13
181	Bacterially enhanced dissolution of meta-autunite. <i>American Mineralogist</i> , 2008 , 93, 1858-1864	2.9	13
180	A novel arrangement of silicate tetrahedra in the uranyl silicate sheet of oursinite, (Co _{0.8} Mg _{0.2})[(UO ₂)(SiO ₃ OH)] ₂ (H ₂ O) ₆ . <i>American Mineralogist</i> , 2006 , 91, 333-336	2.9	13
179	THE STRUCTURE AND COMPOSITION OF URANOSPATHITE, Al _{1-x} [(UO ₂)(PO ₄)] ₂ (H ₂ O) _{20+3x} F _{1-3x} . <i>Canadian Mineralogist</i> , 2005 , 43, 989-1003	0.7	13
178	THE CRYSTAL STRUCTURE OF ALLOCHALCOSELITE, Cu ₂ +5PbO ₂ (SeO ₃) ₂ Cl ₅ , A MINERAL WITH WELL-DEFINED Cu ⁺ AND Cu ²⁺ POSITIONS. <i>Canadian Mineralogist</i> , 2006 , 44, 507-514	0.7	13
177	DISSOLUTION OF URANYL-OXIDE-HYDROXY-HYDRATE MINERALS. II. BECQUERELITE. <i>Canadian Mineralogist</i> , 2006 , 44, 1207-1225	0.7	13
176	The structure of hgelite, an arsenate of the phosphuranylite group, and its relationship to dumontite. <i>Mineralogical Magazine</i> , 2003 , 67, 1109-1120	1.7	13
175	Crystal structure of filatovite, K(Al,Zn) ₂ (As,Si) ₂ O ₈ , the first arsenate of the feldspar group. <i>European Journal of Mineralogy</i> , 2004 , 16, 537-543	2.2	13
174	INVESTIGATIONS OF CRYSTAL-CHEMICAL VARIABILITY IN LEAD URANYL OXIDE HYDRATES. II. FOURMARIERITE. <i>Canadian Mineralogist</i> , 2000 , 38, 737-749	0.7	13
173	SYNTHESIS AND CRYSTAL STRUCTURE OF A NEW Pb URANYL OXIDE HYDRATE WITH A FRAMEWORK STRUCTURE THAT CONTAINS CHANNELS. <i>Canadian Mineralogist</i> , 2000 , 38, 1433-1441	0.7	13
172	Paganoite, NiBi ₃ +As ₅ +O ₅ , a new mineral from Johanngeorgenstadt, Saxony, Germany: description and crystal structure. <i>European Journal of Mineralogy</i> , 2001 , 13, 167-175	2.2	13
171	Sulfate-Centered Sodium-Icosahedron-Templated Uranyl Peroxide Phosphate Cages with Uranyl Bridged by H ₂ O Peroxide. <i>Inorganic Chemistry</i> , 2017 , 56, 1874-1880	5.1	12
170	Sourcing of Copper and Lead within Red Inclusions from Trinitite Postdetonation Material. <i>Analytical Chemistry</i> , 2015 , 87, 5380-6	7.8	12
169	Infrared Signature of the Cation-Interaction between Calcite and Aromatic Hydrocarbons. <i>Langmuir</i> , 2015 , 31, 5820-6	4	12
168	Hybrid uranyl arsonate coordination nanocages. <i>Inorganic Chemistry</i> , 2013 , 52, 6245-7	5.1	12
167	Expanding the crystal chemistry of actinyl peroxides: mu-eta ² :eta ¹ peroxide coordination in trimers of U ⁶⁺ polyhedra. <i>Inorganic Chemistry</i> , 2009 , 48, 2346-8	5.1	12

166	THE CRYSTAL STRUCTURE OF PARAGEORGBOKIITE, $\text{Cu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_2$. <i>Canadian Mineralogist</i> , 2007 , 45, 929-934	0.7	12
165	THE CRYSTAL STRUCTURE OF $\text{Pb}_8\text{O}_5(\text{OH})_2\text{Cl}_4$, A SYNTHETIC ANALOGUE OF BLIXITE?. <i>Canadian Mineralogist</i> , 2006 , 44, 515-522	0.7	12
164	$\text{U}_2\text{Mo}_2\text{O}_8$ as a new polymorph of uranium dimolybdate containing tetravalent uranium. <i>Doklady Physics</i> , 2004 , 49, 76-77	0.8	12
163	Incorporation of sodium into the chlorite structure: the crystal structure of glagolevite, $\text{Na}(\text{Mg},\text{Al})_6[\text{Si}_3\text{AlO}_{10}](\text{OH},\text{O})_8$. <i>American Mineralogist</i> , 2004 , 89, 1138-1141	2.9	12
162	The crystal structure of thornasite, $\text{Na}_{12}\text{Th}_3[\text{Si}_8\text{O}_{19}]_4(\text{H}_2\text{O})_{18}$: A novel interrupted silicate framework. <i>American Mineralogist</i> , 2000 , 85, 1521-1525	2.9	12
161	SYNTHESIS AND STRUCTURE OF A NEW Ca URANYL OXIDE HYDRATE, $\text{Ca}[(\text{UO}_2)_4\text{O}_3(\text{OH})_4](\text{H}_2\text{O})_2$, AND ITS RELATIONSHIP TO BECQUERELITE. <i>Canadian Mineralogist</i> , 2002 , 40, 217-224	0.7	12
160	Thermodynamic investigation of uranyl vanadate minerals: Implications for structural stability. <i>American Mineralogist</i> , 2017 , 102, 1149-1153	2.9	11
159	Uranyl-Peroxide Capsule Self-Assembly in Slow Motion. <i>Chemistry - A European Journal</i> , 2019 , 25, 6087-6091	0.9	11
158	Crystal structure of rimkorolgitite, $\text{Ba}[\text{Mg}_5(\text{H}_2\text{O})_7(\text{PO}_4)_4](\text{H}_2\text{O})$, and its comparison with bakhchisaraitsevite. <i>European Journal of Mineralogy</i> , 2002 , 14, 397-402	2.2	11
157	Crystal Structure of $\text{Tl}_2[(\text{UO}_2)_2(\text{MoO}_4)_3]$ and Crystal Chemistry of the Compounds $\text{M}_2[(\text{UO}_2)_2(\text{MoO}_4)_3]$ (M = Tl, Rb, Cs). <i>Radiochemistry</i> , 2005 , 47, 447-451	0.9	11
156	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. VII. AN IRIGINITE-TYPE SHEET OF POLYHEDRA IN THE STRUCTURE OF $[(\text{UO}_2)\text{Mo}_2\text{O}_7(\text{H}_2\text{O})_2]$. <i>Canadian Mineralogist</i> , 2002 , 40, 1571-1577	0.7	11
155	Reactivity, Formation, and Solubility of Polyoxometalates Probed by Calorimetry. <i>Journal of the American Chemical Society</i> , 2020 ,	16.4	11
154	Synthesis and preservation of graphene-supported uranium dioxide nanocrystals. <i>Journal of Nuclear Materials</i> , 2016 , 475, 113-122	3.3	11
153	Uranyl-Peroxide Clusters Incorporating Iron Trimers and Bridging by Bisphosphonate- and Carboxylate-Containing Ligands. <i>Inorganic Chemistry</i> , 2017 , 56, 3738-3741	5.1	10
152	Multivariate Analysis Based on Geochemical, Isotopic, and Mineralogical Compositions of Uranium-Rich Samples. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 537	2.4	10
151	Amine templating effect absent in uranyl sulfates synthesized with 1,4-n-butyldiamine. <i>Journal of Solid State Chemistry</i> , 2013 , 197, 160-165	3.3	10
150	Uranyl Organic Hybrids Designed from Hydroxyphosphonate. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 340-347	2.3	10
149	Dissolution of uranophane: An AFM, XPS, SEM and ICP study. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 2510-2533	5.5	10

148	Hybrid Uranium Oxalate Fullerene Topology Cage Clusters. <i>Angewandte Chemie</i> , 2010 , 122, 7429-7431	3.6	10
147	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. X. THE CRYSTAL STRUCTURE OF $\text{Ag}_{10}[(\text{UO}_2)_8\text{O}_8(\text{Mo}_5\text{O}_{20})]$. <i>Canadian Mineralogist</i> , 2003 , 41, 1455-1462	0.7	10
146	Rietveld Refinement of the Crystal Structure of CuF_2 . <i>Powder Diffraction</i> , 1991 , 6, 156-158	1.8	10
145	Photocatalytic decomposition of Rhodamine B on uranium-doped mesoporous titanium dioxide. <i>RSC Advances</i> , 2017 , 7, 21273-21280	3.7	9
144	Resolving Confined Li Dynamics of Uranyl Peroxide Capsule U. <i>Inorganic Chemistry</i> , 2018 , 57, 5514-5525	5.1	9
143	Supramolecular Assembly of Geometrically Unstable Hybrid Organic-Inorganic Uranyl Peroxide Cage Clusters and Their Transformations. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12780-12788	16.4	9
142	Lezilitite, the first Na,Mg-containing uranyl carbonate from the Markey Mine, San Juan County, Utah, USA. <i>Mineralogical Magazine</i> , 2017 , 81, 1039-1050	1.7	9
141	Thermodynamic properties of phosphate members of the meta-autunite group: A high-temperature calorimetric study. <i>Journal of Chemical Thermodynamics</i> , 2017 , 114, 165-171	2.9	9
140	Gauthierite, $\text{KPb}[(\text{UO}_2)_7\text{O}_5(\text{OH})_7] \cdot 8\text{H}_2\text{O}$, a new uranyl-oxide hydroxy-hydrate mineral from Shinkolobwe with a novel uranyl-anion sheet-topology. <i>European Journal of Mineralogy</i> , 2017 , 29, 129-141	2.2	9
139	Influence of the Organic Species and Oxoanion in the Synthesis of two Uranyl Sulfate Hydrates, $(\text{H}_3\text{O})_2[(\text{UO}_2)_2(\text{SO}_4)_3(\text{H}_2\text{O})] \cdot 7\text{H}_2\text{O}$ and $(\text{H}_3\text{O})_2[(\text{UO}_2)_2(\text{SO}_4)_3(\text{H}_2\text{O})] \cdot 4\text{H}_2\text{O}$, and a Uranyl Selenate-Selenite $[\text{C}_5\text{H}_6\text{N}][(\text{UO}_2)(\text{SeO}_4)(\text{HSeO}_3)]$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 638, 1796-1803	1.3	9
138	A monoclinic polymorph of uranyl dinitrate trihydrate, $[\text{UO}_2(\text{NO}_3)_2(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}$. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003 , 59, i71-3		9
137	Crystal structure of $\text{Pb}_3\text{O}_2(\text{OH})\text{Br}$, a Br-analogue of damaraite. <i>Solid State Sciences</i> , 2001 , 3, 455-459	3.4	9
136	Crystal chemistry of uranium oxocompounds: an overview 2007 , 1-30		9
135	Ferroelectricity, ionic conductivity and structural paths for large cation migration in $\text{Ca}_{10.5-x}\text{Pbx}(\text{VO}_4)_7$ single crystals, $x = 1.9, 3.5, 4.9$. <i>CrystEngComm</i> , 2019 , 21, 1309-1319	3.3	8
134	Comparative chemical and structural analyses of two uranium dioxide fuel pellets. <i>Journal of Nuclear Materials</i> , 2019 , 518, 149-161	3.3	8
133	Experimental thermochemistry of neptunium oxides: Np_2O_5 and NpO_2 . <i>Journal of Nuclear Materials</i> , 2018 , 501, 398-403	3.3	8
132	Comparative Investigation between In Situ Laser Ablation Versus Bulk Sample (Solution Mode) Inductively Coupled Plasma Mass Spectrometry (ICP-MS) Analysis of Trinitite Post-Detonation Materials. <i>Applied Spectroscopy</i> , 2016 , 70, 1446-55	3.1	8
131	Observations on the crystal structures of lueshite. <i>Physics and Chemistry of Minerals</i> , 2014 , 41, 393-401	1.6	8

130	Ionothermal synthesis of uranyl compounds that incorporate imidazole derivatives. <i>Journal of Solid State Chemistry</i> , 2013 , 197, 266-272	3.3	8
129	Mineralogic controls on aqueous neptunium(V) concentrations in silicate systems. <i>Journal of Nuclear Materials</i> , 2013 , 433, 233-239	3.3	8
128	DISSOLUTION OF URANYL-OXIDE-HYDROXY-HYDRATE MINERALS. IV. FOURMARIERITE AND SYNTHETIC $Pb_2(H_2O)[(UO_2)_{10}(UO_2)_{12}(OH)_6(H_2O)_2]$. <i>Canadian Mineralogist</i> , 2007 , 45, 963-981	0.7	8
127	Ion exchange between aqueous fluid and spent nuclear fuel alteration products: Implications for the mobility of Cs in the probable repository at Yucca Mountain. <i>Mineralogical Magazine</i> , 2003 , 67, 689-696	1.7	8
126	Petewilliamsite, $(Ni,Co)_{30}(As_2O_7)_{15}$, a new mineral from Johanngeorgenstadt, Saxony, Germany: description and crystal structure. <i>Mineralogical Magazine</i> , 2004 , 68, 231-240	1.7	8
125	The crystal structure of szenicsite, $Cu_3MoO_4(OH)_4$. <i>Mineralogical Magazine</i> , 1998 , 62, 461-469	1.7	8
124	A novel family of microporous uranyl germanates: Framework topology and complexity of the crystal structures. <i>Journal of Solid State Chemistry</i> , 2019 , 271, 126-134	3.3	8
123	Transformation of Uranyl Peroxide Studtite, $[(UO)(O)(HO)](HO)$, to Soluble Nanoscale Cage Clusters. <i>Inorganic Chemistry</i> , 2019 , 58, 6781-6789	5.1	7
122	Ionothermal effects on low-dimensionality uranyl compounds using task specific ionic liquids. <i>CrystEngComm</i> , 2014 , 16, 7244-7250	3.3	7
121	Synthesis, structure, and spectroscopic characterization of three uranyl phosphates with unique structural units. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 482-488	3.3	7
120	A COMBINED GEOCHEMICAL AND GEOCHRONOLOGICAL INVESTIGATION OF NIOCALITE FROM THE OKA CARBONATITE COMPLEX, CANADA. <i>Canadian Mineralogist</i> , 2013 , 51, 785-800	0.7	7
119	Supramolecular templates for the synthesis of new nanostructured uranyl compounds: Crystal structure of $[NH_3(CH_2)_9NH_3][(UO_2)(SeO_4)(SeO_2OH)](NO_3)$. <i>Radiochemistry</i> , 2010 , 52, 1-6	0.9	7
118	MARIANOITE, A NEW MEMBER OF THE CUSPIDINE GROUP FROM THE PRAIRIE LAKE SILICOCARBONATITE, ONTARIO. <i>Canadian Mineralogist</i> , 2008 , 46, 1023-1032	0.7	7
117	DISSOLUTION OF URANYL-OXIDE-HYDROXY-HYDRATE MINERALS. III. BILLIETITE. <i>Canadian Mineralogist</i> , 2007 , 45, 945-962	0.7	7
116	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. IX. A NOVEL URANYL MOLYBDATE SHEET IN THE STRUCTURE OF $Tl_2[(UO_2)_2O(MoO_5)]$. <i>Canadian Mineralogist</i> , 2003 , 41, 1225-1231	0.7	7
115	Synthesis and crystal structure of $Cu_2\{(UO_2)_3[(S,Cr)O_4]_5\}(H_2O)_{17}$. <i>Radiochemistry</i> , 2004 , 46, 441-445	0.9	7
114	Clay removal in basaltic and limestone horizontal roughing filters. <i>Journal of Environmental Management</i> , 2002 , 7, 231-237		7
113	Energetic Trends in Monomer Building Blocks for Uranyl Peroxide Clusters. <i>Inorganic Chemistry</i> , 2019 , 58, 439-445	5.1	7

112	Paddlewheelite, a New Uranyl Carbonate from the Jáchymov District, Bohemia, Czech Republic. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 511	2.4	7
111	Stability of Solid Uranyl Peroxides under Irradiation. <i>Inorganic Chemistry</i> , 2019 , 58, 14112-14119	5.1	6
110	From aqueous speciation to supramolecular assembly in alkaline earth-uranyl polyoxometalates. <i>Chemical Communications</i> , 2017 , 53, 9550-9553	5.8	6
109	An integrated study of uranyl mineral dissolution processes: etch pit formation, effects of cations in solution, and secondary precipitation. <i>Radiochimica Acta</i> , 2011 , 99, 79-94	1.9	6
108	Th ₂ [BO ₄][PO ₄]: A RARE EXAMPLE OF AN ACTINIDE BORATE-PHOSPHATE. <i>Canadian Mineralogist</i> , 2011 , 49, 1211-1220	0.7	6
107	Synthesis and Crystal Structure of Cs ₄ [UO ₂ (CO ₃) ₃]. <i>Radiochemistry</i> , 2004 , 46, 12-15	0.9	6
106	Dynamic Phosphonic Bridges in Aqueous Uranyl Clusters. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 797-801	2.3	6
105	Thermodynamic studies of zippeite, a uranyl sulfate common in mine wastes. <i>Chemical Geology</i> , 2016 , 447, 54-58	4.2	6
104	Pyrophosphate and Methylenediphosphonate Incorporated Uranyl Peroxide Cage Clusters. <i>Crystal Growth and Design</i> , 2018 , 18, 7720-7729	3.5	6
103	Nuclear-blast induced nanotextures in quartz and zircon within Trinitite. <i>American Mineralogist</i> , 2017 , 102, 445-460	2.9	5
102	In situ Raman spectroscopy of uranyl peroxide nanoscale cage clusters under hydrothermal conditions. <i>Dalton Transactions</i> , 2019 , 48, 7755-7765	4.3	5
101	A Novel Family of Np(VI) Oxysalts: Crystal Structures, Calorimetry, Thermal Behavior, and Comparison with U(VI) Compounds. <i>Crystal Growth and Design</i> , 2019 , 19, 2811-2819	3.5	5
100	Effects of HO Concentration on Formation of Uranyl Peroxide Species Probed by Dissolution of Uranium Nitride and Uranium Dioxide. <i>Inorganic Chemistry</i> , 2019 , 58, 5858-5864	5.1	5
99	The new K, Pb-bearing uranyl-oxide mineral kroupaite: Crystal-chemical implications for the structures of uranyl-oxide hydroxy-hydrates. <i>American Mineralogist</i> , 2020 , 105, 561-568	2.9	5
98	High-temperature calorimetric measurements of thermodynamic properties of uranyl arsenates of the meta-autunite group. <i>Chemical Geology</i> , 2018 , 493, 353-358	4.2	5
97	Isotope and Hydrogen-Bond Effects on the Self-Assembly of Macroions in Dilute Solution. <i>Chemistry - A European Journal</i> , 2019 , 25, 16288-16293	4.8	5
96	Mobilization and agglomeration of uraninite nanoparticles: A nano-mineralogical study of samples from the Matoush Uranium ore deposit. <i>American Mineralogist</i> , 2017 , 102, 1776-1787	2.9	5
95	Uranyl peroxide nanoclusters at high-pressure. <i>Journal of Materials Research</i> , 2017 , 32, 3679-3688	2.5	5

94	Synthesis, characterization, and crystal structures of uranyl compounds containing mixed chromium oxidation states. <i>Journal of Solid State Chemistry</i> , 2012 , 191, 162-166	3.3	5
93	Cafetite, Ca[Ti ₂ O ₅](H ₂ O): Crystal structure and revision of chemical formula. <i>American Mineralogist</i> , 2003 , 88, 424-429	2.9	5
92	Crystal structure of Pb ₁₀ O ₇ (OH) ₂ F ₂ (SO ₄) and crystal chemistry of lead oxysulfate minerals and inorganic compounds. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002 , 217,	1	5
91	Arizona porphyry copper/hydrothermal deposits I. The structure of chenevixite and luetheite. <i>Mineralogical Magazine</i> , 2000 , 64, 25-s8	1.7	5
90	Dukeite, Bi ₃ +24Cr ₈₆ +O ₅₇ (OH) ₆ (H ₂ O) ₃ , a new mineral from Brejaíba, Minas Gerais, Brazil: Description and crystal structure. <i>American Mineralogist</i> , 2000 , 85, 1822-1827	2.9	5
89	Unusual Metal-Organic Framework Topology and Radiation Resistance through Neptunyl Coordination Chemistry. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17354-17359	16.4	5
88	Structure and thermodynamic stability of UTaO, a U(v)-bearing compound. <i>Dalton Transactions</i> , 2016 , 45, 18892-18899	4.3	5
87	Leesite, K(H ₂ O) ₂ [(UO ₂) ₄ O ₂ (OH) ₅](H ₂ O), a new K-bearing schoepite-family mineral from the Jomac mine, San Juan County, Utah, U.S.A. <i>American Mineralogist</i> , 2018 , 103, 143-150	2.9	5
86	Characterization of uraninite using a FIB/SEM approach and its implications for LA-ICP/MS analyses. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 318, 1389-1400	1.5	5
85	A Spontaneous Structural Transition of {U Pp} Clusters Triggered by Alkali Counterion Replacement in Dilute Solution. <i>Chemistry - A European Journal</i> , 2017 , 23, 7915-7919	4.8	4
84	Neptunyl Peroxide Chemistry: Synthesis and Spectroscopic Characterization of a Neptunyl Triperoxide Compound, Ca[NpO(O)] ₃ HO. <i>Inorganic Chemistry</i> , 2019 , 58, 12264-12271	5.1	4
83	Hybrid Uranyl-Phosphonate Coordination Nanocage. <i>Inorganic Chemistry</i> , 2019 , 58, 12662-12668	5.1	4
82	Microwave-Assisted Solution/Liquid/Solid Synthesis of Single-Crystal Copper Indium Sulfide Nanowires. <i>Crystal Growth and Design</i> , 2015 , 15, 2859-2866	3.5	4
81	Thermodynamic characterization of synthetic autunite. <i>American Mineralogist</i> , 2017 , 102, 1977-1980	2.9	4
80	Investigation of the Structural Stability of Zippeite-Group Minerals Using High-Temperature Calorimetry. <i>Canadian Mineralogist</i> , 2018 , 56, 7-14	0.7	4
79	Synthesis and structural characterization of a series of uranyl-betaine coordination complexes. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018 , 233, 507-513	1	4
78	The (3+3) commensurately modulated structure of the uranyl silicate mineral swamboite-(Nd), Nd _{0.333} [(UO ₂)(SiO ₃ OH)](H ₂ O) _{2.41} . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018 , 233, 223 ¹ -231		4
77	Framework Polymorphism and Modular Crystal Structures of Uranyl Vanadates of Divalent Cations: Synthesis and Characterization of M(UO ₂)(V ₂ O ₇) (M = Ca, Sr) and Sr ₃ (UO ₂)(V ₂ O ₇) ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019 , 645, 981-987	1.3	4

76	Pr ₅ F[SiO ₄] ₂ [SeO ₃] ₃ : Another Complex Fluoride Oxosilicate Oxoselenate(IV). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 638, 779-784	1.3	4
75	Oxygen isotope composition of trinitite postdetonation materials. <i>Analytical Chemistry</i> , 2013 , 85, 11913-98		4
74	Dynamics of a Nanometer-Sized Uranyl Cluster in Solution. <i>Angewandte Chemie</i> , 2013 , 125, 7612-7615	3.6	4
73	Partially ordered organic-inorganic nanocomposites in the system UO ₂ SeO ₄ -H ₂ O-NH ₃ (CH ₂) ₉ NH ₃ . <i>Radiochemistry</i> , 2010 , 52, 7-11	0.9	4
72	The Rb analogue of grimselite, Rb ₆ Na ₂ [(UO ₂)(CO ₃) ₃] ₂ (H ₂ O). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2004 , 60, i25-i26		4
71	Natromarkeyite and pseudomarkeyite, two new calcium uranyl carbonate minerals from the Markey mine, San Juan County, Utah, USA. <i>Mineralogical Magazine</i> , 2020 , 84, 753-765	1.7	4
70	Extraction behaviors of uranyl peroxy cage clusters by mesoporous silica SBA-15. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 310, 453-462	1.5	4
69	Redcanyonite, (NH ₄) ₂ Mn[(UO ₂) ₄ O ₄ (SO ₄) ₂](H ₂ O) ₄ , a new zippeite-group mineral from the Blue Lizard mine, San Juan County, Utah, USA. <i>Mineralogical Magazine</i> , 2018 , 82, 1261-1275	1.7	4
68	The crystal and coordination chemistry of neptunium in all its oxidation states: An expanded structural hierarchy of neptunium compounds. <i>Coordination Chemistry Reviews</i> , 2021 , 445, 213994	23.2	4
67	The lithium-water configuration encapsulated by uranyl peroxide cage cluster U ₂₄ . <i>CrystEngComm</i> , 2019 , 21, 390-393	3.3	3
66	Dynamics of Cation-Induced Conformational Changes in Nanometer-Sized Uranyl Peroxide Clusters. <i>Inorganic Chemistry</i> , 2020 , 59, 2495-2502	5.1	3
65	Bi(PO) ₃ O, the Simplest Bismuth(III) Oxophosphate: Synthesis, IR Spectroscopy, Crystal Structure, and Structural Complexity. <i>Inorganic Chemistry</i> , 2018 , 57, 6799-6802	5.1	3
64	Interactions of phosphorylated cyclohexapeptides with uranyl: insights from experiments and theoretical calculations. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019 , 322, 677-689	1.5	3
63	Parageorgbokiite, $\text{Cu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_2$, a new mineral species from volcanic exhalations, Kamchatka Peninsula, Russia. <i>Geology of Ore Deposits</i> , 2007 , 49, 518-521	0.7	3
62	Cover Picture: Actinyl Peroxide Nanospheres (Angew. Chem. Int. Ed. 14/2005). <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2039-2039	16.4	3
61	X-ray powder diffraction data for the identification of boracite-group minerals. <i>Powder Diffraction</i> , 1995 , 10, 250-260	1.8	3
60	Mineral-specific heterogeneous neptunium sorption onto geological repository rocks in oxic and anoxic conditions and various temperatures. <i>Chemical Geology</i> , 2020 , 545, 119654	4.2	3
59	Hydroxylpyromorphite, a mineral important to lead remediation: Modern description and characterization. <i>American Mineralogist</i> , 2021 , 106, 922-929	2.9	3

58	Structure Refinement and Thermal Stability Studies of the Uranyl Carbonate Mineral Andersonite, $\text{Na}_2\text{Ca}[(\text{UO}_2)(\text{CO}_3)_3] \cdot (5+x)\text{H}_2\text{O}$. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 586	2.4	3
57	The Role of Continental Crust in the Formation of Uraninite-Based Ore Deposits. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 136	2.4	2
56	Dissolution of poorly soluble uranyl phosphate phases in the Metaautunite Subgroup under uranyl peroxide cage cluster forming conditions. <i>American Mineralogist</i> , 2020 , 105, 182-193	2.9	2
55	Crystal Chemistry and Structural Complexity of Uranium(IV) Sulfates: Synthesis of $\text{UH}(\text{SO})(\text{HO})\text{BHO}$ and $\text{U}(\text{UO})(\text{SO})(\text{OH})\text{B} \cdot 3\text{H}_2\text{O}$ with Framework Structures by the Photochemical Reduction of Uranyl. <i>Inorganic Chemistry</i> , 2020 , 59, 5813-5817	5.1	2
54	Measurement of the effective capacitance of solutions containing nanoscale uranyl peroxide cage clusters (U60) reveals cluster effects. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 315, 341-346	1.5	2
53	Synthesis, IR spectroscopy and crystal structure of $[(\text{UO}_2)_2\{\text{Be}(\text{H}_2\text{O})_2(\text{PO}_4)_2\}] \cdot (\text{H}_2\text{O})$, the first compound with a trimer beryllophosphate anion. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018 , 233, 391-398	1	2
52	Mixed-Valent Cyanoplatinates Featuring Neptunyl-Neptunyl Cation-Cation Interactions. <i>Inorganic Chemistry</i> , 2018 , 57, 9504-9514	5.1	2
51	The role of 1-ethyl-3-methylimidazolium diethyl phosphate ionic liquid in uranyl phosphate compounds. <i>Journal of Solid State Chemistry</i> , 2019 , 279, 120938	3.3	2
50	Solid-state actinide acid phosphites from phosphorous acid melts. <i>Journal of Solid State Chemistry</i> , 2014 , 215, 50-56	3.3	2
49	Extraction of uranyl peroxo clusters from aqueous solution by mesoporous silica SBA-15. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014 , 303, 2257	1.5	2
48	Affects of Hydrogen Peroxide on the Stability of Becquerelite. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 893, 1		2
47	Tetrahedral site ordering in synthetic gallium albite: A ^{29}Si MAS NMR study. <i>Journal of Solid State Chemistry</i> , 1991 , 94, 52-58	3.3	2
46	Standalone 2-D Nanosheets and the Consequent Hydrogel and Coacervate Phases Formed by 2.5 nm Spherical U Molecular Clusters in Dilute Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12392-12397	3.4	2
45	Chemically-induced structural variations of a family of $\text{Cs}_2[(\text{AnO}_2)_2(\text{TO}_4)_3]$ (An = U, Np; T = S, Se, Cr, Mo) compounds: Thermal behavior, calorimetry studies and spectroscopy characterization of Cs uranyl sulfate and selenate. <i>Journal of Solid State Chemistry</i> , 2020 , 282, 121077	3.3	2
44	Prediction of Solution Behavior via Calorimetric Measurements Allows for Detailed Elucidation of Polyoxometalate Transformation. <i>Inorganic Chemistry</i> , 2021 , 60, 6753-6763	5.1	2
43	Experimental measurements of U^{24}Py nanocluster behavior in aqueous solution. <i>Radiochimica Acta</i> , 2016 , 104,	1.9	2
42	$\text{Rb}_2[\text{Ca}(\text{NpO}_2)_2(\text{PO}_4)_2]$, the First Mixed Alkali/Alkaline Earth Metals Neptunyl(V) Phosphate: Crystal Chemistry and Sheet Stereoisomerism. <i>Crystal Growth and Design</i> , 2018 , 18, 7254-7258	3.5	2
41	High-Temperature Synthesis of a Uranyl Peroxo Complex Facilitated by Hydrothermally In Situ Formed Organic Peroxide. <i>Inorganic Chemistry</i> , 2021 , 60, 2133-2137	5.1	2

40	Thermochemical study of tetravalent metal sulfate tetrahydrates: $A4+(SO4)2(H2O)4$ ($A4+ = Zr, Ce, U$). <i>Journal of Solid State Chemistry</i> , 2019 , 276, 56-60	3.3	1
39	Ligand Mediated Morphology of the Two-Dimensional Uranyl Aqua Sulfates $[UO2(X)(SO4)(H2O)] [X = Cl Br (CH3)3NCH2COO]$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019 , 645, 504-508	1.3	1
38	Structural and Morphological Influences on Neptunium Incorporation in Uranyl Molybdates. <i>Crystal Growth and Design</i> , 2015 , 15, 5293-5300	3.5	1
37	Jeankempite, $Ca5(AsO4)2(AsO3OH)2(H2O)7$, a new arsenate mineral from the Mohawk Mine, Keweenaw County, Michigan, USA. <i>Mineralogical Magazine</i> , 2020 , 84, 959-969	1.7	1
36	RbCaCu(PO)O, a novel oxophosphate with a shchurovskyite-type topology: synthesis, structure, magnetic properties and crystal chemistry of rubidium copper phosphates. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 903-913	1.8	1
35	Cation-Directed Isomerization of the U ₂₈ Uranyl-Peroxide Cluster. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5429-5433	2.3	1
34	Stability of Peroxide-Containing Uranyl Minerals.. <i>ChemInform</i> , 2004 , 35, no		1
33	A New Polytype of Orthoboric Acid, H ₃ BO ₃ -3T.. <i>ChemInform</i> , 2003 , 34, no		1
32	Advances in Understanding of the Crystal Chemistry of Hexavalent Uranium. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 802, 87		1
31	⁷⁹ Se: Geochemical and Crystallo-Chemical Retardation Mechanisms. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 556, 1115		1
30	Developing methodologies for source attribution: glass phase separation in Trinitite using NF ₃ . <i>Radiochimica Acta</i> , 2017 , 105, 417-430	1.9	1
29	Nanostructured actinide compounds: an introduction 2007 , 443-456		1
28	Organic Functionalization of Uranyl Peroxide Clusters to Impact Solubility. <i>Inorganic Chemistry</i> , 2020 , 59, 9881-9888	5.1	1
27	Complex minerals preserve natural geochemically important nanoscale metal oxide clusters. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 512-513	1.8	1
26	Irradiation-Driven Restructuring of UO Thin Films: Amorphization and Crystallization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35153-35164	9.5	1
25	Calorimetric Study of Functionalized Uranyl Peroxide Nanoclusters and Their Monomeric Building Block. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 2840-2845	2.3	1
24	Happy Jack Uraninite: A New Reference Material for High Spatial Resolution Analysis of U-Rich Matrices. <i>Geostandards and Geoanalytical Research</i> , 2020 , 44, 125-132	3.6	1
23	Seaborgite, LiNa ₆ K ₂ (UO ₂)(SO ₄) ₅ (SO ₃ OH)(H ₂ O), the first uranyl mineral containing lithium. <i>American Mineralogist</i> , 2021 , 106, 105-111	2.9	1

22	Ionothermal Synthesis of Uranyl Vanadate Nanoshell Heteropolyoxometalates. <i>Inorganic Chemistry</i> , 2021 , 60, 3355-3364	5.1	1
21	Effect of Ionothermal Conditions on the Crystallization of Organically Templated Uranyl Sulfate Compounds. <i>Crystal Growth and Design</i> , 2021 , 21, 861-868	3.5	1
20	Inhomogeneous Distribution of Cationic Surfactants around Anionic Molecular Clusters. <i>Chemistry - A European Journal</i> , 2019 , 25, 15741-15745	4.8	0
19	Cation-Dependent Hierarchical Assembly of U60 Nanoclusters into Blackberries Imaged via Cryogenic Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1468-1469	0.5	0
18	Benchmarking Uranyl Peroxide Capsule Chemistry in Organic Media. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2-2	2.3	
17	Mg[(UO ₂) ₂ (Ge ₂ O ₆ (OH) ₂)][(H ₂ O) _{4.4}], a novel compound with mixed germanium coordination: cation disordering and topological features of U ₃ O ₈ type sheets. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2019 , 234, 383-393	1	
16	High Nuclearity Uranyl Cages Using Rigid Aryl Phosphonate Ligands. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 5052-5058	2.3	
15	In-Situ Raman Spectroscopy Studies of Room-Temperature and Hydrothermal Reactions. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1444, 281		
14	Hydrothermal Synthesis and Structure of Neptunium(V) Oxide. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 985, 1		
13	Changing Np Redox Speciation in the Synchrotron Beam. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 802, 140		
12	Titelbild: Actinyl Peroxide Nanospheres (Angew. Chem. 14/2005). <i>Angewandte Chemie</i> , 2005 , 117, 2075-2075		
11	Relationships between the crystal chemistry and magnetic properties of Np ⁵⁺ sulfates. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 893, 1		
10	Presence and Persistence of Uranyl Peroxide Nanoclusters in Contact with Geological Media. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 893, 1		
9	Hydrated Uranium Oxides 2020 , 557-578		
8	Hydrogen bond network and bond valence analysis on uranyl sulfate compounds with organic-based interstitial cations. <i>Journal of Solid State Chemistry</i> , 2022 , 307, 122871	3.3	
7	Front Cover: Cation-Directed Isomerization of the U ₂₈ Uranyl-Peroxide Cluster (Eur. J. Inorg. Chem. 46/2017). <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5427-5427	2.3	
6	Cation-Directed Isomerization of the U ₂₈ Uranyl-Peroxide Cluster. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5248-5248	2.3	
5	Thermochemical studies of X(NpO ₂)(PO ₄)(H ₂ O) ₃ (X = K ⁺ , Rb ⁺), neptunium analogs of the autunite/meta-autunite group. <i>Journal of Solid State Chemistry</i> , 2020 , 287, 121373	3.3	

- 4 Presentation of the 2015 Roebling Medal of the Mineralogical Society of America to Rodney C. Ewing. *American Mineralogist*, **2016**, 101, 1001-1001 2.9
- 3 High Nuclearity Uranyl Cages Using Rigid Aryl Phosphonate Ligands. *European Journal of Inorganic Chemistry*, **2019**, 2019, 5040-5040 2.3
- 2 Actinide Polyoxometalates **2018**, 1-8
- 1 Paramarkeyite, a new calcium-uranyl-carbonate mineral from the Markey mine, San Juan County, Utah, USA. *Mineralogical Magazine*, **2022**, 86, 27-36 1.7