Peter Burns

List of Publications by Year in Descending Order

417 papers	11,419 citations	52 h-index	83 g-index
497 ext. papers	12,811 ext. citations	4.5 avg, IF	6.72 L-index

#	Paper	IF	Citations
417	Hydrogen bond network and bond valence analysis on uranyl sulfate compounds with organic-based interstitial cations. *Journal of Solid State Chemistry*, **2022**, 307, 122871	3.3	
416	Paramarkeyite, a new calcium□uranyl□arbonate mineral from the Markey mine, San Juan County, Utah, USA. *Mineralogical Magazine*, **2022**, 86, 27-36	1.7	
415	Unusual Metal-Organic Framework Topology and Radiation Resistance through Neptunyl Coordination Chemistry. *Journal of the American Chemical Society*, **2021**, 143, 17354-17359	16.4	5
414	Standalone 2-D Nanosheets and the Consequent Hydrogel and Coacervate Phases Formed by 2.5 nm Spherical U Molecular Clusters in Dilute Aqueous Solution. *Journal of Physical Chemistry B*, **2021**, 125, 12392-12397	3.4	2
413	Prediction of Solution Behavior via Calorimetric Measurements Allows for Detailed Elucidation of Polyoxometalate Transformation. *Inorganic Chemistry*, **2021**, 60, 6753-6763	5.1	2
412	Hydroxylpyromorphite, a mineral important to lead remediation: Modern description and characterization. *American Mineralogist*, **2021**, 106, 922-929	2.9	3
411	Irradiation-Driven Restructuring of UO Thin Films: Amorphization and Crystallization. *ACS Applied Materials & Interfaces*, **2021**, 13, 35153-35164	9.5	1
410	Calorimetric Study of Functionalized Uranyl Peroxide Nanoclusters and Their Monomeric Building Block. *European Journal of Inorganic Chemistry*, **2021**, 2021, 2840-2845	2.3	1
409	Seaborgite, LiNa6K2(UO2)(SO4)5(SO3OH)(H2O), the first uranyl mineral containing lithium. *American Mineralogist*, **2021**, 106, 105-111	2.9	1
408	Ionothermal Synthesis of Uranyl Vanadate Nanoshell Heteropolyoxometalates. *Inorganic Chemistry*, **2021**, 60, 3355-3364	5.1	1
407	The crystal and coordination chemistry of neptunium in all its oxidation states: An expanded structural hierarchy of neptunium compounds. *Coordination Chemistry Reviews*, **2021**, 445, 213994	23.2	4
406	High-Temperature Synthesis of a Uranyl Peroxo Complex Facilitated by Hydrothermally In Situ Formed Organic Peroxide. *Inorganic Chemistry*, **2021**, 60, 2133-2137	5.1	2
405	Effect of Ionothermal Conditions on the Crystallization of Organically Templated Uranyl Sulfate Compounds. *Crystal Growth and Design*, **2021**, 21, 861-868	3.5	1
404	Jeankempite, Ca5(AsO4)2(AsO3OH)2(H2O)7, a new arsenate mineral from the Mohawk Mine, Keweenaw County, Michigan, USA. *Mineralogical Magazine*, **2020**, 84, 959-969	1.7	1
403	The new K, Pb-bearing uranyl-oxide mineral kroupaite: Crystal-chemical implications for the structures of uranyl-oxide hydroxy-hydrates. *American Mineralogist*, **2020**, 105, 561-568	2.9	5
402	The Role of Continental Crust in the Formation of Uraninite-Based Ore Deposits. *Minerals (Basel, Switzerland)*, **2020**, 10, 136	2.4	2
401	Dissolution of poorly soluble uranyl phosphate phases in the Metaautunite Subgroup under uranyl peroxide cage cluster forming conditions. *American Mineralogist*, **2020**, 105, 182-193	2.9	2

400	Dynamics of Cation-Induced Conformational Changes in Nanometer-Sized Uranyl Peroxide Clusters. *Inorganic Chemistry*, **2020**, 59, 2495-2502	5.1	3
399	Crystal Chemistry and Structural Complexity of Uranium(IV) Sulfates: Synthesis of UH(SO)(HO)□3HO and U(UO)(SO)(OH)□2.3HO with Framework Structures by the Photochemical Reduction of Uranyl. *Inorganic Chemistry*, **2020**, 59, 5813-5817	5.1	2
398	Hydrated Uranium Oxides **2020**, 557-578		
397	Mineral-specific heterogeneous neptunium sorption onto geological repository rocks in oxic and anoxic conditions and various temperatures. *Chemical Geology*, **2020**, 545, 119654	4.2	3
396	Chemically-induced structural variations of a family of Cs2[(AnO2)2(TO4)3] (An = U, Np; T = S, Se, Cr, Mo) compounds: Thermal behavior, calorimetry studies and spectroscopy characterization of Cs uranyl sulfate and selenate. *Journal of Solid State Chemistry*, **2020**, 282, 121077	3.3	2
395	Organic Functionalization of Uranyl Peroxide Clusters to Impact Solubility. *Inorganic Chemistry*, **2020**, 59, 9881-9888	5.1	1
394	Unprecedented Radiation Resistant Thorium-Binaphthol Metal-Organic Framework. *Journal of the American Chemical Society*, **2020**, 142, 13299-13304	16.4	19
393	Reactivity, Formation, and Solubility of Polyoxometalates Probed by Calorimetry. *Journal of the American Chemical Society*, **2020**,	16.4	11
392	Thermochemical studies of X(NpO2)(PO4)(H2O)3 (X = K+, Rb+), neptunium analogs of the autunite/meta-autunite group. *Journal of Solid State Chemistry*, **2020**, 287, 121373	3.3	
391	Natromarkeyite and pseudomarkeyite, two new calcium uranyl carbonate minerals from the Markey mine, San Juan County, Utah, USA. *Mineralogical Magazine*, **2020**, 84, 753-765	1.7	4
390	Complex minerals preserve natural geochemically important nanoscale metal oxide clusters. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2020**, 76, 512-513	1.8	1
389	Happy Jack Uraninite: A New Reference Material for High Spatial Resolution Analysis of U-Rich Matrices. *Geostandards and Geoanalytical Research*, **2020**, 44, 125-132	3.6	1
388	Neptunyl Peroxide Chemistry: Synthesis and Spectroscopic Characterization of a Neptunyl Triperoxide Compound, Ca[NpO(O)]□9HO. *Inorganic Chemistry*, **2019**, 58, 12264-12271	5.1	4
387	Multivariate Analysis Based on Geochemical, Isotopic, and Mineralogical Compositions of Uranium-Rich Samples. *Minerals (Basel, Switzerland)*, **2019**, 9, 537	2.4	10
386	Hybrid Uranyl-Phosphonate Coordination Nanocage. *Inorganic Chemistry*, **2019**, 58, 12662-12668	5.1	4
385	Stability of Solid Uranyl Peroxides under Irradiation. *Inorganic Chemistry*, **2019**, 58, 14112-14119	5.1	6
384	Ferroelectricity, ionic conductivity and structural paths for large cation migration in Ca10.5□Pbx(VO4)7 single crystals, x = 1.9, 3.5, 4.9. *CrystEngComm*, **2019**, 21, 1309-1319	3.3	8
383	The lithium□water configuration encapsulated by uranyl peroxide cage cluster U24. *CrystEngComm*, **2019**, 21, 390-393	3.3	3

382	Transformation of Uranyl Peroxide Studtite, [(UO)(O)(HO)](HO), to Soluble Nanoscale Cage Clusters. *Inorganic Chemistry*, **2019**, 58, 6781-6789	5.1	7
381	In situ Raman spectroscopy of uranyl peroxide nanoscale cage clusters under hydrothermal conditions. *Dalton Transactions*, **2019**, 48, 7755-7765	4.3	5
380	Thermochemical study of tetravalent metal sulfate tetrahydrates: A4+(SO4)2(H2O)4 (A4+ = Zr, Ce, U). *Journal of Solid State Chemistry*, **2019**, 276, 56-60	3.3	1
379	Uranyl-Peroxide Capsule Self-Assembly in Slow Motion. *Chemistry - A European Journal*, **2019**, 25, 6087-6091	4.8	11
378	Comparative chemical and structural analyses of two uranium dioxide fuel pellets. *Journal of Nuclear Materials*, **2019**, 518, 149-161	3.3	8
377	Mg[(UO2)2(Ge2O6(OH)2](H2O)4.4, a novel compound with mixed germanium coordination: cation disordering and topological features of U3O8 type sheets. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2019**, 234, 383-393	1	
376	A Novel Family of Np(VI) Oxysalts: Crystal Structures, Calorimetry, Thermal Behavior, and Comparison with U(VI) Compounds. *Crystal Growth and Design*, **2019**, 19, 2811-2819	3.5	5
375	Effects of HO Concentration on Formation of Uranyl Peroxide Species Probed by Dissolution of Uranium Nitride and Uranium Dioxide. *Inorganic Chemistry*, **2019**, 58, 5858-5864	5.1	5
374	Ligand Mediated Morphology of the Two-Dimensional Uranyl Aqua Sulfates [UO2(X)(SO4)(H2O)] [X = Cl, Br (CH3)3NCH2COO]. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2019**, 645, 504-508	1.3	1
373	Framework Polymorphism and Modular Crystal Structures of Uranyl Vanadates of Divalent Cations: Synthesis and Characterization of M(UO2)(V2O7) (M = Ca, Sr) and Sr3(UO2)(V2O7)2. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2019**, 645, 981-987	1.3	4
372	Interactions of phosphorylated cyclohexapeptides with uranyl: insights from experiments and theoretical calculations. *Journal of Radioanalytical and Nuclear Chemistry*, **2019**, 322, 677-689	1.5	3
371	In Situ Formation of Unprecedented Neptunium-Oxide Wheel Clusters Stabilized in a Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 11842-11846	16.4	28
370	Supramolecular Assembly of Geometrically Unstable Hybrid Organic-Inorganic Uranyl Peroxide Cage Clusters and Their Transformations. *Journal of the American Chemical Society*, **2019**, 141, 12780-12788	16.4	9
369	The role of 1-ethyl-3-methylimidazolium diethyl phosphate ionic liquid in uranyl phosphate compounds. *Journal of Solid State Chemistry*, **2019**, 279, 120938	3.3	2
368	High Nuclearity Uranyl Cages Using Rigid Aryl Phosphonate Ligands. *European Journal of Inorganic Chemistry*, **2019**, 2019, 5052-5058	2.3	
367	Isotope and Hydrogen-Bond Effects on the Self-Assembly of Macroions in Dilute Solution. *Chemistry - A European Journal*, **2019**, 25, 16288-16293	4.8	5
366	Inhomogeneous Distribution of Cationic Surfactants around Anionic Molecular Clusters. *Chemistry - A European Journal*, **2019**, 25, 15741-15745	4.8	0
365	RbCaCu(PO)O, a novel oxophosphate with a shchurovskyite-type topology: synthesis, structure, magnetic properties and crystal chemistry of rubidium copper phosphates. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2019**, 75, 903-913	1.8	1

364	High Nuclearity Uranyl Cages Using Rigid Aryl Phosphonate Ligands. *European Journal of Inorganic Chemistry*, **2019**, 2019, 5040-5040	2.3	
363	Energetic Trends in Monomer Building Blocks for Uranyl Peroxide Clusters. *Inorganic Chemistry*, **2019**, 58, 439-445	5.1	7
362	A novel family of microporous uranyl germanates: Framework topology and complexity of the crystal structures. *Journal of Solid State Chemistry*, **2019**, 271, 126-134	3.3	8
361	Investigation of the Structural Stability of Zippeite-Group Minerals Using High-Temperature Calorimetry. *Canadian Mineralogist*, **2018**, 56, 7-14	0.7	4
360	Expanding the Schulze-Hardy Rule and the Hofmeister Series to Nanometer-Scaled Hydrophilic Macroions. *Chemistry - A European Journal*, **2018**, 24, 5479-5483	4.8	21
359	Resolving Confined Li Dynamics of Uranyl Peroxide Capsule U. *Inorganic Chemistry*, **2018**, 57, 5514-5525	5.1	9
358	Synthesis and structural characterization of a series of uranyl-betaine coordination complexes. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2018**, 233, 507-513	1	4
357	Measurement of the effective capacitance of solutions containing nanoscale uranyl peroxide cage clusters (U60) reveals cluster effects. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 315, 341-346	1.5	2
356	The (3+3) commensurately modulated structure of the uranyl silicate mineral swamboite-(Nd), Nd0.333[(UO2)(SiO3OH)](H2O)2.41. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2018**, 233, 223-231	1	4
355	Synthesis, IR spectroscopy and crystal structure of [(UO2)2{Be(H2O)2(PO4)2}]·(H2O), the first compound with a trimer beryllophosphate anion. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2018**, 233, 391-398	1	2
354	Captivation with encapsulation: a dozen years of exploring uranyl peroxide capsules. *Dalton Transactions*, **2018**, 47, 5916-5927	4.3	54
353	Experimental thermochemistry of neptunium oxides: Np2O5 and NpO2. *Journal of Nuclear Materials*, **2018**, 501, 398-403	3.3	8
352	High-temperature calorimetric measurements of thermodynamic properties of uranyl arsenates of the meta-autunite group. *Chemical Geology*, **2018**, 493, 353-358	4.2	5
351	Complexity of Uranyl Peroxide Cluster Speciation from Alkali-Directed Oxidative Dissolution of Uranium Dioxide. *Inorganic Chemistry*, **2018**, 57, 9296-9305	5.1	21
350	Mixed-Valent Cyanoplatinates Featuring Neptunyl-Neptunyl Cation-Cation Interactions. *Inorganic Chemistry*, **2018**, 57, 9504-9514	5.1	2
349	Bi(PO)O, the Simplest Bismuth(III) Oxophosphate: Synthesis, IR Spectroscopy, Crystal Structure, and Structural Complexity. *Inorganic Chemistry*, **2018**, 57, 6799-6802	5.1	3
348	Leesite, K(H2O)2[(UO2)4O2(OH)5]·3H2O, a new K-bearing schoepite-family mineral from the Jomac mine, San Juan County, Utah, U.S.A. *American Mineralogist*, **2018**, 103, 143-150	2.9	5
347	Actinide Polyoxometalates **2018**, 1-8		

346	Paddlewheelite, a New Uranyl Carbonate from the Jáchymov District, Bohemia, Czech Republic. *Minerals (Basel, Switzerland)*, **2018**, 8, 511	2.4	7
345	Pyrophosphate and Methylenediphosphonate Incorporated Uranyl Peroxide Cage Clusters. *Crystal Growth and Design*, **2018**, 18, 7720-7729	3.5	6
344	Rb2[Ca(NpO2)2(PO4)2], the First Mixed Alkali–Alkaline Earth Metals Neptunyl(V) Phosphate: Crystal Chemistry and Sheet Stereoisomerism. *Crystal Growth and Design*, **2018**, 18, 7254-7258	3.5	2
343	Structure Refinement and Thermal Stability Studies of the Uranyl Carbonate Mineral Andersonite, Na2Ca[(UO2)(CO3)3]·(5+x)H2O. *Minerals (Basel, Switzerland)*, **2018**, 8, 586	2.4	3
342	Characterization of uraninite using a FIB–SEM approach and its implications for LA-ICP-MS analyses. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 318, 1389-1400	1.5	5
341	Charge Density Influence on Enthalpy of Formation of Uranyl Peroxide Cage Cluster Salts. *Inorganic Chemistry*, **2018**, 57, 11456-11462	5.1	15
340	Redcanyonite, (NH4)2Mn[(UO2)4O4(SO4)2](H2O)4, a new zippeite-group mineral from the Blue Lizard mine, San Juan County, Utah, USA. *Mineralogical Magazine*, **2018**, 82, 1261-1275	1.7	4
339	Sulfate-Centered Sodium-Icosahedron-Templated Uranyl Peroxide Phosphate Cages with Uranyl Bridged by η2-Peroxide. *Inorganic Chemistry*, **2017**, 56, 1874-1880	5.1	12
338	Computationally-Guided Assignment of Unexpected Signals in the Raman Spectra of Uranyl Triperoxide Complexes. *Inorganic Chemistry*, **2017**, 56, 1574-1580	5.1	29
337	Benchmarking Uranyl Peroxide Capsule Chemistry in Organic Media. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2-2	2.3	
336	Uranyl Peroxide Cage Cluster Solubility in Water and the Role of the Electrical Double Layer. *Inorganic Chemistry*, **2017**, 56, 1333-1339	5.1	25
335	Nuclear-blast induced nanotextures in quartz and zircon within Trinitite. *American Mineralogist*, **2017**, 102, 445-460	2.9	5
334	Hierarchy of Pyrophosphate-Functionalized Uranyl Peroxide Nanocluster Synthesis. *Inorganic Chemistry*, **2017**, 56, 5478-5487	5.1	16
333	Photocatalytic decomposition of Rhodamine B on uranium-doped mesoporous titanium dioxide. *RSC Advances*, **2017**, 7, 21273-21280	3.7	9
332	A Spontaneous Structural Transition of {U Pp } Clusters Triggered by Alkali Counterion Replacement in Dilute Solution. *Chemistry - A European Journal*, **2017**, 23, 7915-7919	4.8	4
331	A novel nuclear forensic tool involving deposit type normalized rare earth element signatures. *Terra Nova*, **2017**, 29, 294-305	3	19
330	Thermodynamic investigation of uranyl vanadate minerals: Implications for structural stability. *American Mineralogist*, **2017**, 102, 1149-1153	2.9	11
329	Uranyl-Peroxide Clusters Incorporating Iron Trimers and Bridging by Bisphosphonate- and Carboxylate-Containing Ligands. *Inorganic Chemistry*, **2017**, 56, 3738-3741	5.1	10

328	Porous Uranium Diphosphonate Frameworks with Trinuclear Units Templated by Organic Ammonium Hydrolyzed from Amine Solvents. *Inorganic Chemistry*, **2017**, 56, 13249-13256	5.1	14
327	Rare-earth element fractionation in uranium ore and its U(VI) alteration minerals. *Applied Geochemistry*, **2017**, 87, 84-92	3.5	18
326	Ewingite: Earth's most complex mineral. *Geology*, **2017**, 45, 1007-1010	5	20
325	Thermodynamic characterization of synthetic autunite. *American Mineralogist*, **2017**, 102, 1977-1980	2.9	4
324	Leszilíte, the first Na,Mg-containing uranyl carbonate from the Markey Mine, San Juan County, Utah, USA. *Mineralogical Magazine*, **2017**, 81, 1039-1050	1.7	9
323	Cation-Directed Isomerization of the U28 Uranyl-Peroxide Cluster. *European Journal of Inorganic Chemistry*, **2017**, 2017, 5429-5433	2.3	1
322	Mobilization and agglomeration of uraninite nanoparticles: A nano-mineralogical study of samples from the Matoush Uranium ore deposit. *American Mineralogist*, **2017**, 102, 1776-1787	2.9	5
321	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
320	The Propensity of Uranium-Peroxide Systems to Preserve Nanosized Assemblies. *Inorganic Chemistry*, **2017**, 56, 9602-9608	5.1	16
319	From aqueous speciation to supramolecular assembly in alkaline earth-uranyl polyoxometalates. *Chemical Communications*, **2017**, 53, 9550-9553	5.8	6
318	Uranyl peroxide nanoclusters at high-pressure. *Journal of Materials Research*, **2017**, 32, 3679-3688	2.5	5
317	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. *Inorganic Chemistry*, **2017**, 56, 9676-9683	5.1	18
316	Thermodynamic properties of phosphate members of the meta-autunite group: A high-temperature calorimetric study. *Journal of Chemical Thermodynamics*, **2017**, 114, 165-171	2.9	9
315	Gauthierite, KPb[(UO2)7 O5 (OH)7]□8H2 O, a new uranyl-oxide hydroxy-hydrate mineral from Shinkolobwe with a novel uranyl-anion sheet-topology. *European Journal of Mineralogy*, **2017**, 29, 129-141	2.2	9
314	Benchmarking Uranyl Peroxide Capsule Chemistry in Organic Media. *European Journal of Inorganic Chemistry*, **2017**, 2017, 39-46	2.3	15
313	Developing methodologies for source attribution: glass phase separation in Trinitite using NF3. *Radiochimica Acta*, **2017**, 105, 417-430	1.9	1
312	Front Cover: Cation-Directed Isomerization of the U28 Uranyl-Peroxide Cluster (Eur. J. Inorg. Chem. 46/2017). *European Journal of Inorganic Chemistry*, **2017**, 2017, 5427-5427	2.3	
311	Cation-Directed Isomerization of the U28 Uranyl-Peroxide Cluster. *European Journal of Inorganic Chemistry*, **2017**, 2017, 5248-5248	2.3	

310	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. *Applied Spectroscopy*, **2016**, 70, 1446-55	3.1	8
309	Time-Resolved X-ray Scattering and Raman Spectroscopic Studies of Formation of a Uranium-Vanadium-Phosphorus-Peroxide Cage Cluster. *Inorganic Chemistry*, **2016**, 55, 7061-7	5.1	17
308	Thermodynamic studies of studtite thermal decomposition pathways via amorphous intermediates UO3, U2O7, and UO4. *Journal of Nuclear Materials*, **2016**, 478, 158-163	3.3	35
307	Oxo Clusters of 5f Elements. *Structure and Bonding*, **2016**, 121-153	0.9	17
306	An Unprecedented Two-Fold Nested Super-Polyrotaxane: Sulfate-Directed Hierarchical Polythreading Assembly of Uranyl Polyrotaxane Moieties. *Chemistry - A European Journal*, **2016**, 22, 11329-38	4.8	14
305	Thermal Responsive Ion Selectivity of Uranyl Peroxide Nanocages: An Inorganic Mimic of K+ Ion Channels. *Angewandte Chemie*, **2016**, 128, 7001-7005	3.6	13
304	Thermal Responsive Ion Selectivity of Uranyl Peroxide Nanocages: An Inorganic Mimic of K(+) Ion Channels. *Angewandte Chemie - International Edition*, **2016**, 55, 6887-91	16.4	30
303	Solution (31)P NMR Study of the Acid-Catalyzed Formation of a Highly Charged {U24Pp12} Nanocluster, [(UO2)24(O2)24(P2O7)12](48-), and Its Structural Characterization in the Solid State Using Single-Crystal Neutron Diffraction. *Journal of the American Chemical Society*, **2016**, 138, 8547-53	16.4	26
302	Structure and Reactivity of X-ray Amorphous Uranyl Peroxide, U2O7. *Inorganic Chemistry*, **2016**, 55, 3541-6	5.1	48
301	Hybrid Lanthanide-Actinide Peroxide Cage Clusters. *Inorganic Chemistry*, **2016**, 55, 2682-4	5.1	13
300	Cation-Dependent Hierarchical Assembly of U60 Nanoclusters into Macro-Ion Assemblies Imaged via Cryogenic Transmission Electron Microscopy. *Journal of the American Chemical Society*, **2016**, 138, 191-8	16.4	30
299	Presentation of the 2015 Roebling Medal of the Mineralogical Society of America to Rodney C. Ewing. *American Mineralogist*, **2016**, 101, 1001-1001	2.9	
298	Self-Assembly of Uranyl-Peroxide Nanocapsules in Basic Peroxidic Environments. *Chemistry - A European Journal*, **2016**, 22, 8571-8	4.8	28
297	Dynamic Phosphonic Bridges in Aqueous Uranyl Clusters. *European Journal of Inorganic Chemistry*, **2016**, 2016, 797-801	2.3	6
296	Cation-Dependent Hierarchical Assembly of U60 Nanoclusters into Blackberries Imaged via Cryogenic Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2016**, 22, 1468-1469	0.5	0
295	Experimental measurements of U24Py nanocluster behavior in aqueous solution. *Radiochimica Acta* , **2016**, 104,	1.9	2
294	A Revised and Expanded Structure Hierarchy of Natural and Synthetic Hexavalent Uranium Compounds. *Canadian Mineralogist*, **2016**, 54, 177-283	0.7	100
293	Thermodynamic studies of zippeite, a uranyl sulfate common in mine wastes. *Chemical Geology*, **2016**, 447, 54-58	4.2	6

292	Extraction behaviors of uranyl peroxo cage clusters by mesoporous silica SBA-15. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 310, 453-462	1.5	4
291	Synthesis and preservation of graphene-supported uranium dioxide nanocrystals. *Journal of Nuclear Materials*, **2016**, 475, 113-122	3.3	11
290	Processing used nuclear fuel with nanoscale control of uranium and ultrafiltration. *Journal of Nuclear Materials*, **2016**, 473, 125-130	3.3	26
289	Structure and thermodynamic stability of UTaO, a U(v)-bearing compound. *Dalton Transactions*, **2016**, 45, 18892-18899	4.3	5
288	Chemical and Sr isotopic characterization of North America uranium ores: Nuclear forensic applications. *Applied Geochemistry*, **2016**, 74, 24-32	3.5	29
287	Sourcing of Copper and Lead within Red Inclusions from Trinitite Postdetonation Material. *Analytical Chemistry*, **2015**, 87, 5380-6	7.8	12
286	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
285	Experimental measurements of U60 nanocluster stability in aqueous solution. *Geochimica Et Cosmochimica Acta*, **2015**, 156, 94-105	5.5	17
284	Nuclear forensic applications involving high spatial resolution analysis of Trinitite cross-sections. *Journal of Radioanalytical and Nuclear Chemistry*, **2015**, 306, 457-467	1.5	13
283	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
282	Hybrid uranyl-vanadium nano-wheels. *Chemical Communications*, **2015**, 51, 10134-7	5.8	25
281	Microwave-Assisted Solution□liquid□olid Synthesis of Single-Crystal Copper Indium Sulfide Nanowires. *Crystal Growth and Design*, **2015**, 15, 2859-2866	3.5	4
280	Structural and Morphological Influences on Neptunium Incorporation in Uranyl Molybdates. *Crystal Growth and Design*, **2015**, 15, 5293-5300	3.5	1
279	Selective Permeability of Uranyl Peroxide Nanocages to Different Alkali Ions: Influences from Surface Pores and Hydration Shells. *Chemistry - A European Journal*, **2015**, 21, 18785-90	4.8	26
278	Infrared Signature of the Cation-□nteraction between Calcite and Aromatic Hydrocarbons. *Langmuir*, **2015**, 31, 5820-6	4	12
277	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
276	Uranyl□rganic Hybrids Designed from Hydroxyphosphonate. *European Journal of Inorganic Chemistry*, **2015**, 2015, 340-347	2.3	10
275	Multi-body coalescence in Pickering emulsions. *Nature Communications*, **2015**, 6, 5929	17.4	25

274	Incorporation of Np(V) and U(VI) in carbonate and sulfate minerals crystallized from aqueous solution. *Geochimica Et Cosmochimica Acta*, **2015**, 151, 133-149	5.5	18
273	Observations on the crystal structures of lueshite. *Physics and Chemistry of Minerals*, **2014**, 41, 393-401	1.6	8
272	Raman spectroscopic and ESI-MS characterization of uranyl peroxide cage clusters. *Inorganic Chemistry*, **2014**, 53, 1562-9	5.1	43
271	A detailed geochemical investigation of post-nuclear detonation trinitite glass at high spatial resolution: Delineating anthropogenic vs. natural components. *Chemical Geology*, **2014**, 365, 69-86	4.2	28
270	Use of 2,2-Bipyrimidine for the Preparation of UO22+-3d Diphosphonates. *Crystal Growth and Design*, **2014**, 14, 5692-5699	3.5	15
269	Uranyl Peroxide Nanocapsules in Aqueous Solution: Force Field Development and First Applications. *Journal of Physical Chemistry C*, **2014**, 118, 24730-24740	3.8	21
268	Water-soluble multi-cage super tetrahedral uranyl peroxide phosphate clusters. *Chemical Science*, **2014**, 5, 303-310	9.4	46
267	Tuning the thermal conductivity of solar cell polymers through side chain engineering. *Physical Chemistry Chemical Physics*, **2014**, 16, 7764-71	3.6	36
266	Ionothermal effects on low-dimensionality uranyl compounds using task specific ionic liquids. *CrystEngComm*, **2014**, 16, 7244-7250	3.3	7
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