

# Jennifer E S Szymanowski

## List of Publications by Year in descending order

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74  
papers

1,913  
citations

236925

25  
h-index

276875

41  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cd adsorption onto <i>Pseudomonas putida</i> in the presence and absence of extracellular polymeric substances. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5885-5895.	3.9	155
2	Uranium Pyrophosphate/Methylenediphosphonate Polyoxometalate Cage Clusters. <i>Journal of the American Chemical Society</i> , 2010, 132, 13395-13402.	13.7	107
3	Hybrid Uranium-Oxalate Fullerene Topology Cage Clusters. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7271-7273.	13.8	85
4	Solubility measurements of the uranyl oxide hydrate phases metaschoepite, compreignacite, Na-compreignacite, becquerelite, and clarkeite. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 980-990.	2.0	84
5	Thermodynamic Properties of Autunite, Uranyl Hydrogen Phosphate, and Uranyl Orthophosphate from Solubility and Calorimetric Measurements. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7416-7422.	10.0	82
6	Characterization of sulfhydryl sites within bacterial cell envelopes using selective site-blocking and potentiometric titrations. <i>Chemical Geology</i> , 2014, 373, 50-58.	3.3	64
7	Proton and metal adsorption onto bacterial consortia: Stability constants for metal-bacterial surface complexes. <i>Chemical Geology</i> , 2007, 239, 13-26.	3.3	59
8	Time-Resolved Self-Assembly of a Fullerene-Topology Core-Shell Cluster Containing 68 Uranyl Polyhedra. <i>Journal of the American Chemical Society</i> , 2012, 134, 1810-1816.	13.7	58
9	The effects of uranium speciation on the rate of U(VI) reduction by <i>Shewanella oneidensis</i> MR-1. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3558-3567.	3.9	54
10	Structure and Reactivity of X-ray Amorphous Uranyl Peroxide, $U_2O_7$ . <i>Inorganic Chemistry</i> , 2016, 55, 3541-3546.	4.0	50
11	Metal and proton binding onto the roots of <i>Fescue rubra</i> . <i>Chemical Geology</i> , 2008, 253, 130-135.	3.3	49
12	Water-soluble multi-cage super tetrahedral uranyl peroxide phosphate clusters. <i>Chemical Science</i> , 2014, 5, 303-310.	7.4	48
13	Thermodynamic properties of soddyite from solubility and calorimetry measurements. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 568-575.	2.0	47
14	Cation Templating and Electronic Structure Effects in Uranyl Cage Clusters Probed by the Isolation of Peroxide-Bridged Uranyl Dimers. <i>Inorganic Chemistry</i> , 2015, 54, 4445-4455.	4.0	44
15	Surface Complexation Modeling of Proton and Cd Adsorption onto an Algal Cell Wall. <i>Environmental Science &amp; Technology</i> , 2005, 39, 4060-4065.	10.0	43
16	Low-Symmetry Uranyl Pyrophosphate Cage Clusters. <i>Chemistry - A European Journal</i> , 2011, 17, 2571-2574.	3.3	37
17	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.	13.7	36
18	Thermodynamic characterization of boltwoodite and uranophane: Enthalpy of formation and aqueous solubility. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5269-5282.	3.9	34

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19	Time-Resolved Assembly of Chiral Uranyl Peroxo Cage Clusters Containing Belts of Polyhedra. <i>Inorganic Chemistry</i> , 2013, 52, 337-345.	4.0	33
20	Thermal Responsive Ion Selectivity of Uranyl Peroxide Nanocages: An Inorganic Mimic of $K^{+}$ Ion Channels. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6887-6891.	13.8	32
21	Expanding the Schulze-Hardy Rule and the Hofmeister Series to Nanometer-Scaled Hydrophilic Macroions. <i>Chemistry - A European Journal</i> , 2018, 24, 5479-5483.	3.3	32
22	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, 18785-18790.	3.3	29
23	The effect of high ionic strength on neptunium (V) adsorption to a halophilic bacterium. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 45-57.	3.9	27
24	Uranyl Peroxide Cage Cluster Solubility in Water and the Role of the Electrical Double Layer. <i>Inorganic Chemistry</i> , 2017, 56, 1333-1339.	4.0	27
25	Cage clusters built from uranyl ions bridged through peroxo and 1-hydroxyethane-1,1-diphosphonic acid ligands. <i>Dalton Transactions</i> , 2013, 42, 6793.	3.3	25
26	Modeling bacterial metal toxicity using a surface complexation approach. <i>Chemical Geology</i> , 2014, 374-375, 110-116.	3.3	25
27	Experimental Measurements and Surface Complexation Modeling of U(VI) Adsorption onto Multilayered Graphene Oxide: The Importance of Adsorbate-Adsorbent Ratios. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8510-8518.	10.0	25
28	The crystal chemistry of four thorium sulfates. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1591-1597.	2.9	24
29	Correlations and Differences between Uranium(VI) Arsonates and Phosphonates. <i>Inorganic Chemistry</i> , 2012, 51, 12032-12040.	4.0	24
30	Hybrid Uranyl-Carboxyphosphonate Cage Clusters. <i>Inorganic Chemistry</i> , 2013, 52, 7673-7679.	4.0	24
31	Expanding the Crystal Chemistry of Uranyl Peroxides: Four Hybrid Uranyl-Peroxide Structures Containing EDTA. <i>Inorganic Chemistry</i> , 2014, 53, 12084-12091.	4.0	22
32	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, 7061-7067.	4.0	22
33	Hierarchy of Pyrophosphate-Functionalized Uranyl Peroxide Nanocluster Synthesis. <i>Inorganic Chemistry</i> , 2017, 56, 5478-5487.	4.0	22
34	Reactivity, Formation, and Solubility of Polyoxometalates Probed by Calorimetry. <i>Journal of the American Chemical Society</i> , 2020, 142, 20463-20469.	13.7	21
35	Porous Uranium Diphosphonate Frameworks with Trinuclear Units Templated by Organic Ammonium Hydrolyzed from Amine Solvents. <i>Inorganic Chemistry</i> , 2017, 56, 13249-13256.	4.0	20
36	Experimental measurements of U60 nanocluster stability in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 156, 94-105.	3.9	19

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37	The Propensity of Uranium-Peroxide Systems to Preserve Nanosized Assemblies. <i>Inorganic Chemistry</i> , 2017, 56, 9602-9608.	4.0	19
38	Charge Density Influence on Enthalpy of Formation of Uranyl Peroxide Cage Cluster Salts. <i>Inorganic Chemistry</i> , 2018, 57, 11456-11462.	4.0	19
39	Stability of Solid Uranyl Peroxides under Irradiation. <i>Inorganic Chemistry</i> , 2019, 58, 14112-14119.	4.0	18
40	Benchmarking Uranyl Peroxide Capsule Chemistry in Organic Media. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 39-46.	2.0	17
41	Thermal Responsive Ion Selectivity of Uranyl Peroxide Nanocages: An Inorganic Mimic of $K^+$ Ion Channels. <i>Angewandte Chemie</i> , 2016, 128, 7001-7005.	2.0	16
42	Sulfate-Centered Sodium-Icosahedron-Templated Uranyl Peroxide Phosphate Cages with Uranyl Bridged by $\frac{1}{4} \mu_4 \text{I}^{1+} \cdot \text{I}^{2+}$ Peroxide. <i>Inorganic Chemistry</i> , 2017, 56, 1874-1880.	4.0	16
43	Uranyl-Peroxide Clusters Incorporating Iron Trimers and Bridging by Bisphosphonate- and Carboxylate-Containing Ligands. <i>Inorganic Chemistry</i> , 2017, 56, 3738-3741.	4.0	16
44	Unusual Metal-Organic Framework Topology and Radiation Resistance through Neptunyl Coordination Chemistry. <i>Journal of the American Chemical Society</i> , 2021, 143, 17354-17359.	13.7	16
45	Surface complexation modeling of proton and metal sorption onto graphene oxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 466, 28-39.	4.7	15
46	Hybrid Lanthanide-Actinide Peroxide Cage Clusters. <i>Inorganic Chemistry</i> , 2016, 55, 2682-2684.	4.0	15
47	An X-ray absorption fine structure spectroscopy study of metal sorption to graphene oxide. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 75-86.	9.4	10
48	Resolving Confined $^{7}\text{Li}$ Dynamics of Uranyl Peroxide Capsule $\text{U}_{24}$ . <i>Inorganic Chemistry</i> , 2018, 57, 5514-5525.	4.0	10
49	<i>In situ</i> Raman spectroscopy of uranyl peroxide nanoscale cage clusters under hydrothermal conditions. <i>Dalton Transactions</i> , 2019, 48, 7755-7765.	3.3	10
50	Oxygen point defect accumulation in single-phase $\text{UO}_2$ . <i>Physical Review Materials</i> , 2019, 3, .	2.4	10
51	Calibration of a Linear Free Energy Estimation Approach for Estimating Stability Constants for Metal-Bacterial Surface Complexes. <i>Geomicrobiology Journal</i> , 2010, 27, 321-328.	2.0	9
52	Mineralogic controls on aqueous neptunium(V) concentrations in silicate systems. <i>Journal of Nuclear Materials</i> , 2013, 433, 233-239.	2.7	9
53	Divalent metal cation adsorption onto <i>Leptothrix cholodnii</i> SP-6SL bacterial cells. <i>Chemical Geology</i> , 2016, 439, 132-138.	3.3	9
54	Radiation-Induced Solid-State Transformations of Uranyl Peroxides. <i>Inorganic Chemistry</i> , 2022, 61, 882-889.	4.0	8

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55	Uranyl peroxide nanoclusters at high-pressure. <i>Journal of Materials Research</i> , 2017, 32, 3679-3688.	2.6	7
56	Isotope and Hydrogen-Bond Effects on the Self-Assembly of Macroions in Dilute Solution. <i>Chemistry - A European Journal</i> , 2019, 25, 16288-16293.	3.3	7
57	Neptunyl Peroxide Chemistry: Synthesis and Spectroscopic Characterization of a Neptunyl Triperoxide Compound, $\text{Ca}_2[\text{NpO}_2(\text{O})_3]\cdot 9\text{H}_2\text{O}$ . <i>Inorganic Chemistry</i> , 2019, 58, 12264-12271.	4.0	6
58	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.	3.0	6
59	An x-ray absorption spectroscopy study of Cd binding onto a halophilic archaeon. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012079.	0.4	5
60	A Spontaneous Structural Transition of $\{\text{U}_{24}\text{Pp}_{12}\}$ Clusters Triggered by Alkali Counterion Replacement in Dilute Solution. <i>Chemistry - A European Journal</i> , 2017, 23, 7915-7919.	3.3	5
61	Hybrid Uranyl-Phosphonate Coordination Nanocage. <i>Inorganic Chemistry</i> , 2019, 58, 12662-12668.	4.0	5
62	Ionothermal Synthesis of Uranyl Vanadate Nanoshell Heteropolyoxometalates. <i>Inorganic Chemistry</i> , 2021, 60, 3355-3364.	4.0	5
63	Extraction behaviors of uranyl peroxo cage clusters by mesoporous silica SBA-15. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 310, 453-462.	1.5	4
64	Sorption mechanisms of metals to graphene oxide. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012094.	0.4	4
65	Standalone 2-D Nanosheets and the Consequent Hydrogel and Coacervate Phases Formed by 2.5 nm Spherical $\text{U}_{60}$ Molecular Clusters in Dilute Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12392-12397.	2.6	4
66	Mixed-Valent Cyanoplatinates Featuring Neptunyl-Neptunyl Cation-Cation Interactions. <i>Inorganic Chemistry</i> , 2018, 57, 9504-9514.	4.0	3
67	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
68	Experimental measurements of $\text{U}_{24}\text{Py}$ nanocluster behavior in aqueous solution. <i>Radiochimica Acta</i> , 2016, 104, 853-864.	1.2	2
69	Measurement of the effective capacitance of solutions containing nanoscale uranyl peroxide cage clusters ( $\text{U}_{60}$ ) reveals cluster effects. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 341-346.	1.5	2
70	Inhomogeneous Distribution of Cationic Surfactants around Anionic Molecular Clusters. <i>Chemistry - A European Journal</i> , 2019, 25, 15741-15745.	3.3	2
71	The Effects of Bacterial Surface Adsorption and Exudates on HgO Precipitation. <i>Geomicrobiology Journal</i> , 2016, 33, 367-376.	2.0	1
72	Benchmarking Uranyl Peroxide Capsule Chemistry in Organic Media. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2-2.	2.0	0

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73	High Nuclearity Uranyl Cages Using Rigid Aryl Phosphonate Ligands. European Journal of Inorganic Chemistry, 2019, 2019, 5052-5058.	2.0	0
74	High Nuclearity Uranyl Cages Using Rigid Aryl Phosphonate Ligands. European Journal of Inorganic Chemistry, 2019, 2019, 5040-5040.	2.0	0