

# Kenneth R Czerwinski

## List of Publications by Citations

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89  
papers

1,224  
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98  
ext. papers

1,348  
ext. citations

4.9  
avg, IF

4.12  
L-index

#	Paper	IF	Citations
89	Reaction sequence and kinetics of uranium nitride decomposition. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 10635-42	3.1	62
88	First-principles study of single-crystal uranium mono- and dinitride. <i>Chemical Physics Letters</i> , <b>2007</b> , 443, 82-86	2.5	45
87	Phenylsilane as a safe, versatile alternative to hydrogen for the synthesis of actinide hydrides. <i>Chemical Communications</i> , <b>2015</b> , 51, 17379-81	5.8	40
86	A new homogeneous polymer support based on syndiotactic polystyrene and its application in palladium-catalyzed Suzuki-Miyaura cross-coupling reactions. <i>Green Chemistry</i> , <b>2009</b> , 11, 1576	10	35
85	Tuning the Oxidation State, Nuclearity, and Chemistry of Uranium Hydrides with Phenylsilane and Temperature: The Case of the Classic Uranium(III) Hydride Complex [(C5Me5)2U(H)]2. <i>Organometallics</i> , <b>2016</b> , 35, 617-620	3.8	33
84	Octachloro- and octabromoditechnetate(III) and their rhenium(III) congeners. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 1991-9	5.1	32
83	Oxidative ammonolysis of uranium(IV) fluorides to uranium(VI) nitride. <i>Journal of Nuclear Materials</i> , <b>2008</b> , 374, 75-78	3.3	31
82	Crystal structure of octabromoditechnetate(III) and a multi-configurational quantum chemical study of the delta-->delta* transition in quadruply bonded [M2X8]2- dimers (M = Tc, Re; X = Cl, Br). <i>Dalton Transactions</i> , <b>2009</b> , 5954-9	4.3	29
81	Speciation of heptavalent technetium in sulfuric acid: structural and spectroscopic studies. <i>Dalton Transactions</i> , <b>2010</b> , 39, 8616-9	4.3	28
80	Microscopic Characterization of Uranium Nitrides Synthesized by Oxidative Ammonolysis of Uranium Tetrafluoride. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3076-3084	9.6	28
79	Technetium dichloride: a new binary halide containing metal-metal multiple bonds. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8814-7	16.4	27
78	Synthesis and structure of technetium trichloride. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15864-5	16.4	27
77	Preparation of the binary technetium bromides: TcBr3 and TcBr4. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 910-1	16.4	27
76	The nature of the volatile technetium species formed during vitrification of borosilicate glass. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2015</b> , 306, 417-421	1.5	25
75	Technetium chemistry in the fuel cycle: combining basic and applied studies. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3573-8	5.1	25
74	Magic numbers in small iron clusters: A first-principles study. <i>Chemical Physics Letters</i> , <b>2014</b> , 613, 59-63	2.5	23
73	Reactivity of HTcO(4) with methanol in sulfuric acid: Tc-sulfate complexes revealed by XAFS spectroscopy and first principles calculations. <i>Dalton Transactions</i> , <b>2013</b> , 42, 4348-52	4.3	22

72	X-ray absorption fine structure spectroscopic study of uranium nitrides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2012</b> , 292, 989-994	1.5	22
71	Chemical bonding and aromaticity in trinuclear transition-metal halide clusters. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 1039-46	5.1	22
70	Technetium(IV) halides predicted from first-principles. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 6555-8	5.1	22
69	Reduction of pertechnetate by acetohydroxamic acid: formation of $[Tc^{II}(NO)(AHA)_2(H_2O)]^+$ and implications for the UREX process. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 6674-80	5.1	21
68	Uranium/technetium separation for the UREX process: synthesis and characterization of solid reprocessing forms. <i>Radiochimica Acta</i> , <b>2008</b> , 96, 527-533	1.9	20
67	Structural, spectroscopic, and multiconfigurational quantum chemical investigations of the electron-rich metal-metal triple-bonded $Tc(2)X(4)(PMe(3))(4)$ ( $X = Cl, Br$ ) complexes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 6646-54	5.1	19
66	Synthesis, structure, and first-principles calculations of $[TcBr_2(PMe_3)_4]$ and $[Tc_2Br_4(PMe_3)_4]$ complexes. <i>Dalton Transactions</i> , <b>2009</b> , 10338-42	4.3	19
65	Structural and magnetic properties of $Tc_n@C_{60}$ endohedral metallofullerenes: First-principles predictions. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	18
64	Interplay between structure, stoichiometry and properties of technetium nitrides. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6738-44	4.3	18
63	Synthesis, structure elucidation, and redox properties of $^{99}Tc$ complexes of lacunary Wells-Dawson polyoxometalates: insights into molecular $^{99}Tc$ -metal oxide interactions. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 1670-81	5.1	18
62	Trivalent actinide and lanthanide complexation of 5,6-dialkyl-2,6-bis(1,2,4-triazin-3-yl)pyridine (RBTP; $R = H, Me, Et$ ) derivatives: a combined experimental and first-principles study. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 761-76	5.1	17
61	Electrochemistry of soluble $UO_2^{2+}$ from the direct dissolution of $UO_2CO_3$ in acidic ionic liquid containing water. <i>Electrochimica Acta</i> , <b>2013</b> , 93, 264-271	6.7	17
60	Technetium trichloride: formation, structure, and first-principles calculations. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4915-7	5.1	16
59	One-dimensional uranium-organic coordination polymers: crystal and electronic structures of uranyl-diacetohydroxamate. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6007-11	4.3	16
58	Structural evolution and properties of subnanometer $Tc(n)$ ( $n = 2-15$ ) clusters. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 10003-8	3.6	15
57	Technetium: The First Radioelement on the Periodic Table. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 320-326		14
56	Recent advances in technetium halide chemistry. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 624-32	24.3	14
55	The direct dissolution of $Ce_2(CO_3)_3$ and electrochemical deposition of Ce species using ionic liquid trimethyl-n-butylammonium bis(trifluoromethanesulfonyl)imide containing bis(trifluoromethanesulfonyl)imide. <i>Electrochimica Acta</i> , <b>2013</b> , 89, 144-151	6.7	14

54	Crystal and electronic structures of neptunium nitrides synthesized using a fluoride route. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 3111-9	16.4	14
53	Tchnetium tetrachloride revisited: a precursor to lower-valent binary technetium chlorides. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8462-7	5.1	14
52	Density functional analysis of the trigonal uranyl equatorial coordination in hexahomotrioxacalix[3]arene-based macrocyclic complexes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 1465-70	5.1	14
51	Molecular and Electronic Structures of MO (M = Mn, Tc, Re). <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2448-2458	5.1	13
50	Spectroscopic and structural characterization of reduced technetium species in acetate media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2011</b> , 288, 723-728	1.5	13
49	Comprehensive solid-state NMR characterization of electronic structure in ditechneum heptoxide. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13138-40	16.4	13
48	Structural studies of technetium-zirconium alloys by X-ray diffraction, high-resolution electron microscopy, and first-principles calculations. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 1433-8	5.1	13
47	XAFS spectroscopic study of Tc <sub>2</sub> (O <sub>2</sub> CCH <sub>3</sub> ) <sub>4</sub> X <sub>2</sub> (X = Cl, Br). <i>Journal of Coordination Chemistry</i> , <b>2008</b> , 61, 2356-2370	1.6	13
46	Ditechneum Heptoxide Revisited: Solid-State, Gas-Phase, and Theoretical Studies. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 10445-10452	5.1	12
45	An Americium-Containing Metal-Organic Framework: A Platform for Studying Transplutonium Elements. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16508-16511	16.4	12
44	Multi-configurational quantum chemical studies of the Tc <sub>2</sub> X <sub>8</sub> (n-) (X = Cl, Br; n = 2, 3) anions. Crystallographic structure of octabromoditechneumate(3-). <i>Dalton Transactions</i> , <b>2012</b> , 41, 2869-72	4.3	12
43	Structural and electronic trends in rare-earth technetate pyrochlores. <i>Dalton Transactions</i> , <b>2010</b> , 39, 7207-10	4.3	12
42	Separation of Pertechnetate from Uranium in a Simulated UREX Processing Solution Using Anion Exchange Extraction Chromatography. <i>Solvent Extraction and Ion Exchange</i> , <b>2013</b> , 31, 416-429	2.5	11
41	First evidence for the formation of technetium oxosulfide complexes: synthesis, structure and characterization. <i>Dalton Transactions</i> , <b>2012</b> , 41, 6291-8	4.3	11
40	Synthesis and nanoscale characterization of (NH <sub>4</sub> ) <sub>4</sub> ThF <sub>8</sub> and ThNF. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 5736-46	5.1	11
39	First-Principles and Kinetic Monte Carlo Simulation Studies of the Reactivity of Tc(0001), MoTc(111) and MoTc(110) Surfaces. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, C83-C88	3.9	10
38	On the nature of heptavalent technetium in concentrated nitric and perchloric acid. <i>Inorganica Chimica Acta</i> , <b>2013</b> , 398, 147-150	2.7	10
37	Review of technetium chemistry research conducted at the University of Nevada Las Vegas. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2009</b> , 282, 605-609	1.5	10

36	Application of electron microscopy in the observation of technetium and technetium dioxide nanostructures. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 11738-44	5.1	9
35	Speciation and reactivity of heptavalent technetium in strong acids. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 7522-7528	3.6	7
34	Technetium incorporation in scheelite: insights from first-principles. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18171-18176	4.3	7
33	Lanthanide Complexation of 2,6-Bis(5,6-dipyridyl-1,2,4-triazinyl)pyridine in Solvent- and Lanthanide-Ion-Controlled Ligand Coordination Mode and Denticity. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 921-927	2.3	7
32	Technetium dichloride: solid-state modulated structure, electronic structure, and physical properties. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15955-62	16.4	7
31	Hydrothermal synthesis and solid-state structure of $Tc_2(O_2CCH_3)_4Cl_2$ . <i>Polyhedron</i> , <b>2013</b> , 58, 115-119	2.7	7
30	Probing the presence of multiple metal-metal bonds in technetium chlorides by X-ray absorption spectroscopy: implications for synthetic chemistry. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 9563-70	5.1	7
29	A trigonal-prismatic hexanuclear technetium(II) bromide cluster: solid-state synthesis and crystallographic and electronic structure. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 5660-2	5.1	7
28	Synthesis and characterization of the solid uranium(VI) dioxo-diacetohydroxamate complex. <i>Radiochimica Acta</i> , <b>2007</b> , 95, 439-450	1.9	7
27	Irradiation and isolation of fission products from uranium metal-organic frameworks. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2019</b> , 320, 415-424	1.5	6
26	The Nature of the Technetium Species Formed During the Oxidation of Technetium Dioxide with Oxygen and Water. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 1137-1144	2.3	6
25	Electrochemical Measurement of Gold Oxide Reduction and Methods for Acid Neutralization and Minimization of Water in Wet Ionic Liquid. <i>Electroanalysis</i> , <b>2014</b> , 26, 2631-2638	3	6
24	First-principles study of the hexahalogenotechnetate(IV) ions $TcX_6^{2-}$ [X = Cl, Br]. <i>Chemical Physics Letters</i> , <b>2010</b> , 487, 190-193	2.5	6
23	Molecular and electronic structure of $Tc_2(O_2CCH_3)_2Cl_4$ studied by multiconfigurational quantum chemical methods. <i>Polyhedron</i> , <b>2014</b> , 70, 144-147	2.7	5
22	Recent developments in the synthetic chemistry of technetium disulfide. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15540-3	4.3	5
21	Thermal Expansion Behavior in $TcO$ . Toward Breaking the Tc-Tc Bond. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9219-9224	3.5	5
20	Chemical and electrochemical behavior of metallic technetium in acidic media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2013</b> , 298, 1809-1817	1.5	4
19	Diperoxo Pertechnetic Acid Characterized by Spectroscopic and Quantum Chemical Studies. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 4595-4600	2.3	4

18	Structural study of the ammonium octafluoroneptunate, [NH <sub>4</sub> ] <sub>4</sub> NpF <sub>8</sub> . <i>Inorganica Chimica Acta</i> , <b>2016</b> , 448, 93-96	2.7	4
17	Equation of state for technetium from X-ray diffraction and first-principle calculations. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 95, 6-11	3.9	4
16	Hydrothermal synthesis and solid-state structures of polynuclear technetium iodide compounds. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 424, 329-335	2.7	3
15	A Decade of Dinuclear Technetium Complexes with Multiple Metal-Metal Bonds. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 4484-4495	2.3	3
14	Characterization of TcCl <sub>4</sub> and TcCl <sub>3</sub> by X-ray absorption fine structure spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2014</b> , 299, 235-239	1.5	3
13	A UO <sub>2</sub> -based salt target for rapid isolation of fission products. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2019</b> , 319, 1291-1300	1.5	2
12	An Americium-Containing Metal-Organic Framework: A Platform for Studying Transplutonium Elements. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16660-16663	3.6	2
11	Speciation of technetium peroxo complexes in sulfuric acid revisited. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2015</b> , 303, 1163-1167	1.5	2
10	Bis(Tetrabutylammonium) Octachloroditechnetate(III). <i>Inorganic Syntheses</i> , <b>2014</b> , 110-114		2
9	On the structure of molybdenum dichloride. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4965-71	5.1	2
8	Synthetic and coordination chemistry of the heavier trivalent technetium binary halides: uncovering technetium triiodide. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 14309-16	5.1	2
7	An Atomistic Understanding of the Unusual Thermal Behavior of the Molecular Oxide TcO. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5468-5475	5.1	1
6	Solvothermal synthesis and solid-state characterization of metal-metal bonded tetracarboxylatoditechnetium(II,III) polymers. <i>Polyhedron</i> , <b>2020</b> , 180, 114418	2.7	1
5	Molecular and Electronic Structure of Re <sub>2</sub> Br <sub>4</sub> (PMe <sub>3</sub> ) <sub>4</sub> . <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7111-6	5.1	1
4	X-ray Crystallographic and First-Principles Theoretical Studies of K <sub>2</sub> [TcOCl <sub>5</sub> ] and UV/Vis Investigation of the [TcOCl <sub>5</sub> ] <sup>2-</sup> and [TcOCl <sub>4</sub> ] <sup>-</sup> Ions. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 1097-1104	2.3	1
3	Photochemical behavior of the quadruply metal-metal bonded [Tc <sub>2</sub> Cl <sub>8</sub> ] <sup>2-</sup> anion in acetonitrile. <i>Inorganica Chimica Acta</i> , <b>2016</b> , 453, 724-727	2.7	0
2	Separation of uranium and the early lanthanides from a mixture of their oxides utilizing hexafluoroacetylacetonate. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2015</b> , 303, 1399-1403	1.5	
1	Decontamination of a technetium contaminated fume hood in a research laboratory. <i>Health Physics</i> , <b>2011</b> , 101 Suppl 2, S124-30	2.3	

