

# Kenneth R Czerwinski

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

1,224  
citations

21  
h-index

27  
g-index

98  
ext. papers

1,348  
ext. citations

4.9  
avg, IF

4.12  
L-index

#	Paper	IF	Citations
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	Speciation and reactivity of heptavalent technetium in strong acids. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 7522-7528	3.6	7
81	Molecular and Electronic Structures of MO (M = Mn, Tc, Re). <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2448-2458	5.1	13
80	Technetium: The First Radioelement on the Periodic Table. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 320-326	3.4	14
79	Thermal Expansion Behavior in TcO. Toward Breaking the Tc-Tc Bond. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9219-9224	5.1	5
78	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
77	Technetium incorporation in scheelite: insights from first-principles. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18171-18176	4.3	16
76	Ditechnetium Heptoxide Revisited: Solid-State, Gas-Phase, and Theoretical Studies. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 10445-10452	5.1	12
75	Lanthanide Complexation of 2,6-Bis(5,6-dipyridyl-1,2,4-triazinyl)pyridine: 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
74	Tuning the Oxidation State, Nuclearity, and Chemistry of Uranium Hydrides with Phenylsilane and Temperature: The Case of the Classic Uranium(III) Hydride Complex [(C <sub>5</sub> Me <sub>5</sub> ) <sub>2</sub> U(H)] <sub>2</sub> . <i>Organometallics</i> , <b>2016</b> , 35, 617-620	3.8	33
73	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

72	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
71	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
70	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	
69	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
68	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
67	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
66	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
65	Molecular and electronic structure of Tc <sub>2</sub> (O <sub>2</sub> CCH <sub>3</sub> ) <sub>2</sub> Cl <sub>4</sub> studied by multiconfigurational quantum chemical methods. <i>Polyhedron</i> , <b>2014</b> , 70, 144-147	2.7	5
64	Recent advances in technetium halide chemistry. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 624-32	24.3	14
63	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
62	Magic numbers in small iron clusters: A first-principles study. <i>Chemical Physics Letters</i> , <b>2014</b> , 613, 59-63	2.5	23
61	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
60	Bis(Tetrabutylammonium) Octachloroditechnetate(III). <i>Inorganic Syntheses</i> , <b>2014</b> , 110-114		2
59	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
58	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
57	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
56	[Tc]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
55	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

54	Recent developments in the synthetic chemistry of technetium disulfide. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15540-3	4.3	5
53	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
52	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
51	Hydrothermal synthesis and solid-state structure of Tc <sub>2</sub> (EO <sub>2</sub> CCH <sub>3</sub> ) <sub>4</sub> Cl <sub>2</sub> . <i>Polyhedron</i> , <b>2013</b> , 58, 115-119	2.7	7
50	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
49	The direct dissolution of Ce <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> 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
48	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
47	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
46	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
45	Technetium chemistry in the fuel cycle: combining basic and applied studies. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3573-8	5.1	25
44	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
43	Electrochemistry of soluble UO <sub>2</sub> <sup>2+</sup> from the direct dissolution of UO <sub>2</sub> CO <sub>3</sub> in acidic ionic liquid containing water. <i>Electrochimica Acta</i> , <b>2013</b> , 93, 264-271	6.7	17
42	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
41	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
40	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 octabromoditechnetate(3-). <i>Dalton Transactions</i> , <b>2012</b> , 41, 2869-72	4.3	12
39	On the structure of Ebnolybdenum dichloride. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4965-71	5.1	2
38	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
37	ETechnetium trichloride: formation, structure, and first-principles calculations. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4915-7	5.1	16

36	Tchnetium tetrachloride revisited: a precursor to lower-valent binary technetium chlorides. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8462-7	5.1	14
35	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
34	Chemical bonding and aromaticity in trinuclear transition-metal halide clusters. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 1039-46	5.1	22
33	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	
32	Tchnetium 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
31	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
30	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
29	Interplay between structure, stoichiometry and properties of technetium nitrides. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6738-44	4.3	18
28	Synthesis, structure elucidation, and redox properties of 99Tc complexes of lacunary Wells-Dawson polyoxometalates: insights into molecular 99Tc-metal oxide interactions. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 1670-81	5.1	18
27	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
26	Structural and magnetic properties of Tcn@C60 endohedral metallofullerenes: First-principles predictions. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	18
25	Synthesis and structure of technetium trichloride. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15864-5	16.4	27
24	Structural and electronic trends in rare-earth technetate pyrochlores. <i>Dalton Transactions</i> , <b>2010</b> , 39, 7207-10	4.3	12
23	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
22	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
21	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
20	Speciation of heptavalent technetium in sulfuric acid: structural and spectroscopic studies. <i>Dalton Transactions</i> , <b>2010</b> , 39, 8616-9	4.3	28
19	First-principles study of the hexahalogenotechnetate(IV) ions TcX62- [X = Cl, Br]. <i>Chemical Physics Letters</i> , <b>2010</b> , 487, 190-193	2.5	6

18	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
17	Preparation of the binary technetium bromides: TcBr <sub>3</sub> and TcBr <sub>4</sub> . <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 910-1	16.4	27
16	Technetium(IV) halides predicted from first-principles. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 6555-8	5.1	22
15	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
14	Crystal structure of octabromoditechnetate(III) and a multi-configurational quantum chemical study of the delta $\rightarrow$ delta* transition in quadruply bonded [M <sub>2</sub> X <sub>8</sub> ] <sub>2</sub> - dimers (M = Tc, Re; X = Cl, Br). <i>Dalton Transactions</i> , <b>2009</b> , 5954-9	4.3	29
13	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
12	Reaction sequence and kinetics of uranium nitride decomposition. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 10635-42	4.1	62
11	Synthesis, structure, and first-principles calculations of [TcBr <sub>2</sub> (PMe <sub>3</sub> ) <sub>4</sub> ] and [Tc <sub>2</sub> Br <sub>4</sub> (PMe <sub>3</sub> ) <sub>4</sub> ] complexes. <i>Dalton Transactions</i> , <b>2009</b> , 10338-42	4.3	19
10	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
9	Reduction of pertechnetate by acetohydroxamic acid: formation of [TcII(NO)(AHA) <sub>2</sub> (H <sub>2</sub> O)] <sup>+</sup> and implications for the UREX process. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 6674-80	5.1	21
8	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
7	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
6	Octachloro- and octabromoditechnetate(III) and their rhenium(III) congeners. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 1991-9	5.1	32
5	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
4	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
3	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
2	First-principles study of single-crystal uranium mono- and dinitride. <i>Chemical Physics Letters</i> , <b>2007</b> , 443, 82-86	2.5	45
1	Synthesis and characterization of the solid uranium(VI) dioxo-diacetohydroxamate complex. <i>Radiochimica Acta</i> , <b>2007</b> , 95, 439-450	1.9	7

