Kenneth R Czerwinski

List of Publications by Year
in descending order

88	1,462	304743	434195
papers	citations	22 h-index	31 g-index

98	98	98	1190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reaction Sequence and Kinetics of Uranium Nitride Decomposition. Inorganic Chemistry, 2009, 48, 10635-10642.	4.0	76
2	Phenylsilane as a safe, versatile alternative to hydrogen for the synthesis of actinide hydrides. Chemical Communications, 2015, 51, 17379-17381.	4.1	52
3	First-principles study of single-crystal uranium mono- and dinitride. Chemical Physics Letters, 2007, 443, 82-86.	2.6	46
4	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(Î¼-H)]₂. Organometallics, 2016, 35, 617-620.	2.3	44
5	A new homogeneous polymer support based on syndiotactic polystyrene and its application in palladium-catalyzed Suzukiâ€“Miyaura cross-coupling reactions. Green Chemistry, 2009, 11, 1576.	9.0	41
6	Magic numbers in small iron clusters: A first-principles study. Chemical Physics Letters, 2014, 613, 59-63.	2.6	36
7	Microscopic Characterization of Uranium Nitrides Synthesized by Oxidative Ammonolysis of Uranium Tetrafluoride. Chemistry of Materials, 2008, 20, 3076-3084.	6.7	35
8	Oxidative ammonolysis of uranium(IV) fluorides to uranium(VI) nitride. Journal of Nuclear Materials, 2008, 374, 75-78.	2.7	33
9	Octachloro- and Octabromoditechnetate(III) and Their Rhenium(III) Congeners. Inorganic Chemistry, 2008, 47, 1991-1999.	4.0	33
10	Speciation of heptavalent technetium in sulfuric acid: structural and spectroscopic studies. Dalton Transactions, 2010, 39, 8616.	3.3	33
11	Preparation of the Binary Technetium Bromides: TcBr₃and TcBr₄. Journal of the American Chemical Society, 2009, 131, 910-911.	13.7	32
12	The nature of the volatile technetium species formed during vitrification of borosilicate glass. Journal of Radioanalytical and Nuclear Chemistry, 2015, 306, 417-421.	1.5	32
13	Crystal structure of octabromoditechnetate(iii) and a multi-configurational quantum chemical study of the Î´â†'Î* transition in quadruply bonded [M2X8]2â^' dimers (M = Tc, Re; X = Cl, Br). Dalton Transactions, 2009, , 5954.	3.3	31
14	Synthesis and Structure of Technetium Trichloride. Journal of the American Chemical Society, 2010, 132, 15864-15865.	13.7	31
15	Technetium Dichloride: A New Binary Halide Containing Metalâ€“Metal Multiple Bonds. Journal of the American Chemical Society, 2011, 133, 8814-8817.	13.7	31
16	Technetium Chemistry in the Fuel Cycle: Combining Basic and Applied Studies. Inorganic Chemistry, 2013, 52, 3573-3578.	4.0	31
17	Technetium(IV) Halides Predicted from First-Principles. Inorganic Chemistry, 2009, 48, 6555-6558.	4.0	27
18	X-ray absorption fine structure spectroscopic study of uranium nitrides. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 989-994.	1.5	26

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19	Technetium: The First Radioelement on the Periodic Table. Journal of Chemical Education, 2017, 94, 320-326.	2.3	26
20	Reactivity of HTcO4 with methanol in sulfuric acid: Tc-sulfate complexes revealed by XAFS spectroscopy and first principles calculations. Dalton Transactions, 2013, 42, 4348.	3.3	25
21	Uranium/technetium separation for the UREX process â€“ synthesis and characterization of solid reprocessing forms. Radiochimica Acta, 2008, 96, 527-533.	1.2	24
22	Chemical Bonding and Aromaticity in Trinuclear Transition-Metal Halide Clusters. Inorganic Chemistry, 2011, 50, 1039-1046.	4.0	24
23	Reduction of Pertechnetate by Acetohydroxamic Acid: Formation of [Tc^{II}(NO)(AHA)₂(H₂O)]⁺ and Implications for the UREX Process. Inorganic Chemistry, 2008, 47, 6674-6680.	4.0	22
24	Synthesis, Structure Elucidation, and Redox Properties of⁹⁹Tc Complexes of Lacunary Wellsâ^'Dawson Polyoxometalates: Insights into Molecular⁹⁹Tcâ^'Metal Oxide Interactions. Inorganic Chemistry, 2011, 50, 1670-1681.	4.0	22
25	Î²-Technetium Trichloride: Formation, Structure, and First-Principles Calculations. Inorganic Chemistry, 2012, 51, 4915-4917.	4.0	21
26	Interplay between structure, stoichiometry and properties of technetium nitrides. Dalton Transactions, 2011, 40, 6738.	3.3	20
27	Crystal and Electronic Structures of Neptunium Nitrides Synthesized Using a Fluoride Route. Journal of the American Chemical Society, 2012, 134, 3111-3119.	13.7	20
28	Recent Advances in Technetium Halide Chemistry. Accounts of Chemical Research, 2014, 47, 624-632.	15.6	20
29	An Americiumâ€Containing Metalâ€“Organic Framework: A Platform for Studying Transplutonium Elements. Angewandte Chemie - International Edition, 2019, 58, 16508-16511.	13.8	20
30	Synthesis, structure, and first-principles calculations of [TcBr2(PMe3)4] and [Tc2Br4(PMe3)4] complexes. Dalton Transactions, 2009, , 10338.	3.3	19
31	Structural and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Tc</mml:mtext></mml:mrow><mml:mi>n</mml:mi></mml:msub> metalofullerenes: First-principles predictions. Physical Review B, 2010, 81, .	3.2	19
32	Structural, Spectroscopic, and Multiconfigurational Quantum Chemical Investigations of the Electron-Rich Metalâ^'Metal Triple-Bonded Tc₂X₄(PMe₃)₄ (X = Cl, Br) Complexes. Inorganic Chemistry, 2010, 49, 6646-6654.	4.0	19
33	The direct dissolution of Ce2(CO3)3 and electrochemical deposition of Ce species using ionic liquid trimethyl-n-butylammonium bis(trifluoromethanesulfonyl)imide containing bis(trifluoromethanesulfonyl)imide. Electrochimica Acta, 2013, 89, 144-151.	5.2	19
34	Technetium Tetrachloride Revisited: A Precursor to Lower-Valent Binary Technetium Chlorides. Inorganic Chemistry, 2012, 51, 8462-8467.	4.0	18
35	Trivalent Actinide and Lanthanide Complexation of 5,6-Dialkyl-2,6-bis(1,2,4-triazin-3-yl)pyridine (RBTP; R =) Tj ETQq1 1 0.784314 rgBT /(52, 761-776.	4.0	18
36	Electrochemistry of soluble UO22+ from the direct dissolution of UO2CO3 in acidic ionic liquid containing water. Electrochimica Acta, 2013, 93, 264-271.	5.2	18

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37	One-dimensional uraniumâ€“organic coordination polymers: crystal and electronic structures of uranyl-diacetohydroxamate. Dalton Transactions, 2011, 40, 6007.	3.3	17
38	Ditechnetium Heptoxide Revisited: Solid-State, Gas-Phase, and Theoretical Studies. Inorganic Chemistry, 2016, 55, 10445-10452.	4.0	17
39	Separation of Pertechnetate from Uranium in a Simulated UREX Processing Solution Using Anion Exchange Extraction Chromatography. Solvent Extraction and Ion Exchange, 2013, 31, 416-429.	2.0	16
40	Molecular and Electronic Structures of M₂O₇ (M = Mn, Tc, Re). Inorganic Chemistry, 2017, 56, 2448-2458.	4.0	16
41	Structural evolution and properties of subnanometer Tcn (n = 2â€“15) clusters. Physical Chemistry Chemical Physics, 2009, 11, 10003.	2.8	15
42	Density Functional Analysis of the Trigonal Uranyl Equatorial Coordination in Hexahomotrioxacalix[3]arene-based Macrocyclic Complexes. Inorganic Chemistry, 2010, 49, 1465-1470.	4.0	15
43	Synthesis and Nanoscale Characterization of (NH4)4ThF8 and ThNF. Inorganic Chemistry, 2009, 48, 5736-5746.	4.0	14
44	Structural Studies of Technetiumâ^'Zirconium Alloys by X-ray Diffraction, High-Resolution Electron Microscopy, and First-Principles Calculations. Inorganic Chemistry, 2010, 49, 1433-1438.	4.0	14
45	XAFS spectroscopic study of Tc₂(O₂CCH₃)₄X₂ (X = Cl, Br). Journal of Coordination Chemistry, 2008, 61, 2356-2370.	2.2	13
46	Structural and electronic trends in rare-earth technetate pyrochlores. Dalton Transactions, 2010, 39, 7207.	3.3	13
47	Comprehensive Solid-State NMR Characterization of Electronic Structure in Ditechnetium Heptoxide. Journal of the American Chemical Society, 2010, 132, 13138-13140.	13.7	13
48	Spectroscopic and structural characterization of reduced technetium species in acetate media. Journal of Radioanalytical and Nuclear Chemistry, 2011, 288, 723-728.	1.5	13
49	On the nature of heptavalent technetium in concentrated nitric and perchloric acid. Inorganica Chimica Acta, 2013, 398, 147-150.	2.4	13
50	Review of technetium chemistry research conducted at the University of Nevada Las Vegas. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 605-609.	1.5	12
51	First evidence for the formation of technetium oxosulfide complexes: synthesis, structure and characterization. Dalton Transactions, 2012, 41, 6291.	3.3	12
52	Multi-configurational quantum chemical studies of the Tc2X8nâ^' (X = Cl, Br; n = 2, 3) anions. Crystallographic structure of octabromoditechnetate(3â^'). Dalton Transactions, 2012, 41, 2869.	3.3	12
53	First-Principles and Kinetic Monte Carlo Simulation Studies of the Reactivity of Tc(0001), MoTc(111) and MoTc(110) Surfaces. Journal of the Electrochemical Society, 2014, 161, C83-C88.	2.9	11
54	Speciation and reactivity of heptavalent technetium in strong acids. New Journal of Chemistry, 2018, 42, 7522-7528.	2.8	11

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55	Î²-Technetium Dichloride: Solid-State Modulated Structure, Electronic Structure, and Physical Properties. Journal of the American Chemical Society, 2013, 135, 15955-15962.	13.7	10
56	Application of Electron Microscopy in the Observation of Technetium and Technetium Dioxide Nanostructures. Inorganic Chemistry, 2008, 47, 11738-11744.	4.0	9
57	Probing the Presence of Multiple Metalâ€“Metal Bonds in Technetium Chlorides by X-ray Absorption Spectroscopy: Implications for Synthetic Chemistry. Inorganic Chemistry, 2012, 51, 9563-9570.	4.0	9
58	A Trigonal-Prismatic Hexanuclear Technetium(II) Bromide Cluster: Solid-State Synthesis and Crystallographic and Electronic Structure. Inorganic Chemistry, 2013, 52, 5660-5662.	4.0	9
59	Hydrothermal synthesis and solid-state structure of Tc2(Î¼-O2CCH3)4Cl2. Polyhedron, 2013, 58, 115-119.	2.2	8
60	Technetium incorporation in scheelite: insights from first-principles. Dalton Transactions, 2016, 45, 18171-18176.	3.3	8
61	Lanthanide Complexation of 2,6â€Bis(5,6â€dipyridylâ€1,2,4â€triazinyl)pyrÂidine â€“ Solventâ€•and Lanthanideâ€Ionâ€Controlled Ligand Coordination Mode and Denticity. European Journal of Inorganic Chemistry, 2016, 2016, 921-927.	2.0	8
62	The Nature of the Technetium Species Formed During the Oxidation of Technetium Dioxide with Oxygen and Water. European Journal of Inorganic Chemistry, 2018, 2018, 1137-1144.	2.0	8
63	Irradiation and isolation of fission products from uranium metalâ€“organic frameworks. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 415-424.	1.5	8
64	Synthesis and characterization of the solid uranium(VI) dioxo-diacetohydroxamate complex. Radiochimica Acta, 2007, 95, 439-450.	1.2	7
65	Recent developments in the synthetic chemistry of technetium disulfide. Dalton Transactions, 2013, 42, 15540.	3.3	7
66	Thermal Expansion Behavior in TcO₂. Toward Breaking the Tcâ€“Tc Bond. Inorganic Chemistry, 2017, 56, 9219-9224.	4.0	7
67	First-principles study of the hexahalogenotechnetate(IV) ions TcX62- [X = Cl, Br]. Chemical Physics Letters, 2010, 487, 190-193.	2.6	6
68	Electrochemical Measurement of Gold Oxide Reduction and Methods for Acid Neutralization and Minimization of Water in Wet Ionic Liquid. Electroanalysis, 2014, 26, 2631-2638.	2.9	6
69	Diperoxo Pertechnetic Acid Characterized by Spectroscopic and Quantum Chemical Studies. European Journal of Inorganic Chemistry, 2013, 2013, 4595-4600.	2.0	5
70	Molecular and electronic structure of Tc2(O2CCH3)2Cl4 studied by multiconfigurational quantum chemical methods. Polyhedron, 2014, 70, 144-147.	2.2	5
71	A Decade of Dinuclear Technetium Complexes with Multiple Metal-Metal Bonds. European Journal of Inorganic Chemistry, 2014, 2014, 4484-4495.	2.0	5
72	Structural study of the ammonium octafluoroneptunate, [NH4]4NpF8. Inorganica Chimica Acta, 2016, 448, 93-96.	2.4	5

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73	Equation of state for technetium from Xâ€ray diffraction and first-principle calculations. Journal of Physics and Chemistry of Solids, 2016, 95, 6-11.	4.0	5
74	Chemical and electrochemical behavior of metallic technetium in acidic media. Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 1809-1817.	1.5	4
75	Synthetic and Coordination Chemistry of the Heavier Trivalent Technetium Binary Halides: Uncovering Technetium Triiodide. Inorganic Chemistry, 2013, 52, 14309-14316.	4.0	4
76	Characterization of TcCl4 and Î²-TcCl3 by X-ray absorption fine structure spectroscopy. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 235-239.	1.5	4
77	An Americiumâ€Containing Metalâ€“Organic Framework: A Platform for Studying Transplutonium Elements. Angewandte Chemie, 2019, 131, 16660-16663.	2.0	4
78	On the Structure of Î²-Molybdenum Dichloride. Inorganic Chemistry, 2012, 51, 4965-4971.	4.0	3
79	Xâ€ray Crystallographic and Firstâ€Principles Theoretical Studies of K₂[TcOCl₅] and UV/Vis Investigation of the [TcOCl₅]^{2â€“} and [TcOCl₄]^{â€“} Ions. European Journal of Inorganic Chemistry, 2013, 2013, 1097-1104.	2.0	3
80	Hydrothermal synthesis and solid-state structures of polynuclear technetium iodide compounds. Inorganica Chimica Acta, 2015, 424, 329-335.	2.4	3
81	Speciation of technetium peroxo complexes in sulfuric acid revisited. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1163-1167.	1.5	2
82	A UO2-based salt target for rapid isolation of fission products. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 1291-1300.	1.5	2
83	Photochemical behavior of the quadruply metal-metal bonded [Tc2Cl8]2â¯ anion in acetonitrile. Inorganica Chimica Acta, 2016, 453, 724-727.	2.4	1
84	Molecular and Electronic Structure of Re2Br4(PMe3)4. Inorganic Chemistry, 2016, 55, 7111-7116.	4.0	1
85	An Atomistic Understanding of the Unusual Thermal Behavior of the Molecular Oxide Tc2O7. Inorganic Chemistry, 2019, 58, 5468-5475.	4.0	1
86	Solvothermal synthesis and solid-state characterization of metal-metal bonded tetracarboxylatoditechnetium(II,III) polymers. Polyhedron, 2020, 180, 114418.	2.2	1
87	Decontamination of a Technetium Contaminated Fume Hood in a Research Laboratory. Health Physics, 2011, 101, S124-S130.	0.5	0
88	Separation of uranium and the early lanthanides from a mixture of their oxides utilizing hexafluoroacetylacetonate. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1399-1403.	1.5	0