

Frederic Poineau

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6949260/frederic-poineau-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

76
papers

606
citations

14
h-index

20
g-index

78
ext. papers

720
ext. citations

4.1
avg, IF

3.7
L-index

#	Paper	IF	Citations
76	Synthetic diversity in the preparation of metallic uranium.. <i>Royal Society Open Science</i> , 2022 , 9, 211870	3.3	0
75	From ammonium Hexahalorhenates(IV) to nanocrystalline rhenium metal: A combined thermal, diffraction and microscopic analysis. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022 , 105, 105840	4.1	1
74	Conversion of (NH ₄) ₂ [ReF ₆] into ReO ₂ mixed phases: A thermal analysis study. <i>Inorganic Chemistry Communication</i> , 2022 , 140, 109482	3.1	0
73	Structural and spectral studies of hydrated hexaamminecobalt(III)hexafluororhenate(IV). <i>Journal of Fluorine Chemistry</i> , 2021 , 252, 109903	2.1	2
72	Recovery of Zirconium from Zircalloys Using a Hydrochlorination Process. <i>Nuclear Technology</i> , 2021 , 207, 263-269	1.4	1
71	Coexistence of metamagnetism and slow relaxation of magnetization in ammonium hexafluoridorhenate.. <i>RSC Advances</i> , 2021 , 11, 6353-6360	3.7	4
70	Synthesis and chemical stability of technetium nitrides. <i>Chemical Communications</i> , 2021 , 57, 8079-8082	5.8	1
69	Technetium electrochemistry at the turn of the century. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 893, 115284	4.1	0
68	A 70-Year-Old Mystery in Technetium Chemistry Explained by the New Technetium Polyoxometalate [H ₃ O] ⁺ [TcO ₄] ⁻ ·4H ₂ O. <i>Chemistry - A European Journal</i> , 2021 , 27, 13624-13631	4.8	0
67	Thermal Analysis of Benzotriazolium Perrhenate and Its Implication to Rhenium Metal. <i>ACS Omega</i> , 2021 , 6, 26672-26679	3.9	2
66	Corrosion studies of stainless steel 304 L in nitric acid in the presence of uranyl nitrate: effect of temperature and nitric acid concentration. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	0
65	Towards mid-valent rhenium fluoro-phosphine complexes via hexafluoridorhenate(IV) anion pathway assisted by trifluoro acetic acid. <i>Inorganic Chemistry Communication</i> , 2020 , 119, 108064	3.1	3
64	An Atomistic Understanding of the Unusual Thermal Behavior of the Molecular Oxide TcO. <i>Inorganic Chemistry</i> , 2019 , 58, 5468-5475	5.1	1
63	Zirconium chloride molecular species: combining electron impact mass spectrometry and first principles calculations. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	1
62	Tetraethylammonium Hexafluoro Uranate(IV), Hafnate(IV), and Cerate(IV) Salts: Preparation and Solid-state Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019 , 645, 1052-1056	1.3	
61	Structures and Phase Transitions in Pertechnetates. <i>Inorganic Chemistry</i> , 2019 , 58, 10119-10128	5.1	7
60	An Americium-Containing Metal-Organic Framework: A Platform for Studying Transplutonium Elements. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16508-16511	16.4	12

59	Uncovering Multiple Metal-Metal Bonding in a Tetranuclear Fluoride Rhenium Cluster or the Curious Case of $\{[\text{Ni}(\text{H}_2\text{O})_6](\text{NH}_4)_4\}[\text{Re}_4\text{F}_{18}]\cdot 4\text{H}_2\text{O}$. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 4129-4135	2.3	2
58	X-ray absorption fine structure spectroscopic study of $(\text{NH}_4)_2\text{ReF}_6$. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	2
57	An Americium-Containing Metal-Organic Framework: A Platform for Studying Transplutonium Elements. <i>Angewandte Chemie</i> , 2019 , 131, 16660-16663	3.6	2
56	Bis(tetraphenylarsonium) hexafluoridotechnetate(IV) dihydrate: preparation, structure and spectroscopic analysis. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 1613-1616	0.8	2
55	An unexpected rhenium(IV)-rhenium(VII) salt: $[\text{Co}(\text{NH})][\text{ReO}][\text{ReF}]\cdot 6\text{HO}$. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019 , 75, 1158-1161	0.7	6
54	Speciation of technetium in carbonate media under helium ions and γ radiation. <i>Radiochimica Acta</i> , 2019 , 107, 105-113	1.9	1
53	Difluorotetrakis(2-oxypyridine)dirhenium(III) [Preparation, Crystallographic Structure, and Electrochemical Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019 , 645, 27-30	1.3	0
52	The Nature of the Technetium Species Formed During the Oxidation of Technetium Dioxide with Oxygen and Water. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 1137-1144	2.3	6
51	Speciation and reactivity of heptavalent technetium in strong acids. <i>New Journal of Chemistry</i> , 2018 , 42, 7522-7528	3.6	7
50	Syntheses, Raman spectroscopy and crystal structures of alkali hexa-fluorido-rhenates(IV) revisited. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018 , 74, 646-649	0.7	10
49	Expanding the Chemistry of Rhenium Metal-Metal Bonded Fluoro Complexes: Facile Preparation and Characterization of Paddlewheel Complexes. <i>Inorganic Chemistry</i> , 2018 , 57, 319-325	5.1	3
48	Zirconium tetrachloride revisited. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 307-311	1.8	2
47	Molecular and Electronic Structures of MO (M = Mn, Tc, Re). <i>Inorganic Chemistry</i> , 2017 , 56, 2448-2458	5.1	13
46	Technetium: The First Radioelement on the Periodic Table. <i>Journal of Chemical Education</i> , 2017 , 94, 320-326	3.6	14
45	The Corrosion Behavior of Technetium Metal Exposed to Aqueous Sulfate and Chloride Solutions. <i>Journal of the Electrochemical Society</i> , 2017 , 164, C312-C316	3.9	1
44	Thermal Expansion Behavior in TcO. Toward Breaking the Tc-Tc Bond. <i>Inorganic Chemistry</i> , 2017 , 56, 9219-9224	5.5	5
43	Behavior of heptavalent technetium in concentrated triflic acid under alpha-irradiation: technetium-triflate complex characterized by X-ray absorption fine structure spectroscopy and DFT. <i>Radiochimica Acta</i> , 2017 , 105, 135-140	1.9	1
42	Hexaammine-cobalt(III) pertechnetate: preparation, structure and solubility. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 311, 775-778	1.5	4

41	Molecular and Electronic Structure of $\text{Re}_2\text{Br}_4(\text{PMe}_3)_4$. <i>Inorganic Chemistry</i> , 2016 , 55, 7111-6	5.1	1
40	Ditechnetium Heptoxide Revisited: Solid-State, Gas-Phase, and Theoretical Studies. <i>Inorganic Chemistry</i> , 2016 , 55, 10445-10452	5.1	12
39	Equation of state for technetium from X-ray diffraction and first-principle calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 95, 6-11	3.9	4
38	Octafluorodirhenate(III) Revisited: Solid-State Preparation, Characterization, and Multiconfigurational Quantum Chemical Calculations. <i>Inorganic Chemistry</i> , 2016 , 55, 5417-21	5.1	5
37	Group 7 Metal-Metal Bonds 2015 , 175-224		3
36	Hydrothermal synthesis and solid-state structures of polynuclear technetium iodide compounds. <i>Inorganica Chimica Acta</i> , 2015 , 424, 329-335	2.7	3
35	The nature of the volatile technetium species formed during vitrification of borosilicate glass. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 306, 417-421	1.5	25
34	Speciation of technetium peroxo complexes in sulfuric acid revisited. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 303, 1163-1167	1.5	2
33	Speciation of Technetium in Sulfuric Acid/Hydrogen Sulfide Solutions. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 2046-2052	2.3	6
32	Recent advances in technetium halide chemistry. <i>Accounts of Chemical Research</i> , 2014 , 47, 624-32	24.3	14
31	A Decade of Dinuclear Technetium Complexes with Multiple Metal-Metal Bonds. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4484-4495	2.3	3
30	Bis(Tetrabutylammonium) Octachloroditechnetate(III). <i>Inorganic Syntheses</i> , 2014 , 110-114		2
29	Characterization of TcCl_4 and HTcCl_3 by X-ray absorption fine structure spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014 , 299, 235-239	1.5	3
28	Chemical and electrochemical behavior of metallic technetium in acidic media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 298, 1809-1817	1.5	4
27	Reactivity of HTcO_4 with methanol in sulfuric acid: Tc-sulfate complexes revealed by XAFS spectroscopy and first principles calculations. <i>Dalton Transactions</i> , 2013 , 42, 4348-52	4.3	22
26	Diperoxo Pertechnetate Acid Characterized by Spectroscopic and Quantum Chemical Studies. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 4595-4600	2.3	4
25	Hydrothermal synthesis and solid-state structure of $\text{Tc}_2(\text{EO}_2\text{CCH}_3)_4\text{Cl}_2$. <i>Polyhedron</i> , 2013 , 58, 115-119	2.7	7
24	On the nature of heptavalent technetium in concentrated nitric and perchloric acid. <i>Inorganica Chimica Acta</i> , 2013 , 398, 147-150	2.7	10

23	X-ray Crystallographic and First-Principles Theoretical Studies of $K_2[TcOCl_5]$ and UV/Vis Investigation of the $[TcOCl_5]^{2-}$ and $[TcOCl_4]^-$ Ions. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1097-1104	2.3	1
22	A trigonal-prismatic hexanuclear technetium(II) bromide cluster: solid-state synthesis and crystallographic and electronic structure. <i>Inorganic Chemistry</i> , 2013 , 52, 5660-2	5.1	7
21	Technetium chemistry in the fuel cycle: combining basic and applied studies. <i>Inorganic Chemistry</i> , 2013 , 52, 3573-8	5.1	25
20	Formation of Tc metal in 12 M HCl using Zn as a reductant. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 298, 1315-1321	1.5	2
19	First evidence for the formation of technetium oxosulfide complexes: synthesis, structure and characterization. <i>Dalton Transactions</i> , 2012 , 41, 6291-8	4.3	11
18	Multi-configurational quantum chemical studies of the $Tc_2X_8(n-)$ ($X = Cl, Br; n = 2, 3$) anions. Crystallographic structure of octabromoditechnetate(3-). <i>Dalton Transactions</i> , 2012 , 41, 2869-72	4.3	12
17	On the structure of δ -molybdenum dichloride. <i>Inorganic Chemistry</i> , 2012 , 51, 4965-71	5.1	2
16	Probing the presence of multiple metal-metal bonds in technetium chlorides by X-ray absorption spectroscopy: implications for synthetic chemistry. <i>Inorganic Chemistry</i> , 2012 , 51, 9563-70	5.1	7
15	Technetium trichloride: formation, structure, and first-principles calculations. <i>Inorganic Chemistry</i> , 2012 , 51, 4915-7	5.1	16
14	X-ray absorption fine structure spectroscopic study of uranium nitrides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012 , 292, 989-994	1.5	22
13	Technetium dichloride: a new binary halide containing metal-metal multiple bonds. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8814-7	16.4	27
12	Spectroscopic and structural characterization of reduced technetium species in acetate media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011 , 288, 723-728	1.5	13
11	Preparation, magnetism and electronic structures of cadmium technetates. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1496-1502		8
10	Characterization of Electrodeposited Technetium on Gold Foil. <i>Journal of the Electrochemical Society</i> , 2011 , 158, E32	3.9	10
9	Synthesis and structure of technetium trichloride. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15864-5	16.4	27
8	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> , 2010 , 49, 6646-54	5.1	19
7	Structural studies of technetium-zirconium alloys by X-ray diffraction, high-resolution electron microscopy, and first-principles calculations. <i>Inorganic Chemistry</i> , 2010 , 49, 1433-8	5.1	13
6	Speciation of heptavalent technetium in sulfuric acid: structural and spectroscopic studies. <i>Dalton Transactions</i> , 2010 , 39, 8616-9	4.3	28

5	Preparation of the binary technetium bromides: TcBr ₃ and TcBr ₄ . <i>Journal of the American Chemical Society</i> , 2009 , 131, 910-1	16.4	27
4	Crystal structure of octabromoditechnetate(III) and a multi-configurational quantum chemical study of the delta-->delta* transition in quadruply bonded [M ₂ X ₈] ²⁻ dimers (M = Tc, Re; X = Cl, Br). <i>Dalton Transactions</i> , 2009 , 5954-9	4.3	29
3	Synthesis, structure, and first-principles calculations of [TcBr ₂ (PMe ₃) ₄] and [Tc ₂ Br ₄ (PMe ₃) ₄] complexes. <i>Dalton Transactions</i> , 2009 , 10338-42	4.3	19
2	Speciation of technetium and rhenium complexes by in situ XAS-electrochemistry. <i>Radiochimica Acta</i> , 2006 , 94, 283-289	1.9	23
1	Condensation mechanisms of tetravalent technetium in chloride media. <i>Radiochimica Acta</i> , 2006 , 94, 291-299	1.9	11