

Frederic Poineau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6949260/publications.pdf>

Version: 2024-02-01

75
papers

803
citations

535685

17
h-index

721071

23
g-index

78
all docs

78
docs citations

78
times ranked

604
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Synthetic diversity in the preparation of metallic uranium. Royal Society Open Science, 2022, 9, 211870. | 1.1 | 2 |
| 2 | From ammonium Hexahalorhenates(IV) to nanocrystalline rhenium metal: A combined thermal, diffraction and microscopic analysis. International Journal of Refractory Metals and Hard Materials, 2022, 105, 105840. | 1.7 | 4 |
| 3 | Conversion of (NH ₄) ₂ [ReF ₆] into ReO ₂ mixed phases: A thermal analysis study. Inorganic Chemistry Communication, 2022, 140, 109482. | 1.8 | 2 |
| 4 | Pressure-induced metallization and 3d-like behavior in TcS ₂ .. Chemical Communications, 2022, , . | 2.2 | 0 |
| 5 | Recovery of Zirconium from Zircalloys Using a Hydrochlorination Process. Nuclear Technology, 2021, 207, 263-269. | 0.7 | 1 |
| 6 | Coexistence of metamagnetism and slow relaxation of magnetization in ammonium hexafluoridorhenate. RSC Advances, 2021, 11, 6353-6360. | 1.7 | 6 |
| 7 | Synthesis and chemical stability of technetium nitrides. Chemical Communications, 2021, 57, 8079-8082. | 2.2 | 3 |
| 8 | Technetium electrochemistry at the turn of the century. Journal of Electroanalytical Chemistry, 2021, 893, 115284. | 1.9 | 3 |
| 9 | A 70-year-old Mystery in Technetium Chemistry Explained by the New Technetium Polyoxometalate [H ₇ O ₃] ₄ [Tc ₂₀ O ₆₈]·4H ₂ O. Chemistry - A European Journal, 2021, 27, 13624-13631. | | |
| 10 | Thermal Analysis of Benzotriazolium Perrhenate and Its Implication to Rhenium Metal. ACS Omega, 2021, 6, 26672-26679. | 1.6 | 6 |
| 11 | Structural and spectral studies of hydrated hexaamminecobalt(III) hexafluororhenate(IV). Journal of Fluorine Chemistry, 2021, 252, 109903. | 0.9 | 3 |
| 12 | Towards mid-valent rhenium fluoro-phosphine complexes via hexafluoridorhenate(IV) anion pathway assisted by trifluoro acetic acid. Inorganic Chemistry Communication, 2020, 119, 108064. | 1.8 | 4 |
| 13 | Corrosion studies of stainless steel 304 L in nitric acid in the presence of uranyl nitrate: effect of temperature and nitric acid concentration. SN Applied Sciences, 2020, 2, 1. | 1.5 | 7 |
| 14 | Tetraethylammonium Hexafluoro Uranate(IV), Hafnate(IV), and Cerate(IV) Salts: Preparation and Solid-state Structure. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 1052-1056. | 0.6 | 1 |
| 15 | Structures and Phase Transitions in Pertchnetates. Inorganic Chemistry, 2019, 58, 10119-10128. | 1.9 | 21 |
| 16 | An Americium-containing Metal-Organic Framework: A Platform for Studying Transplutonium Elements. Angewandte Chemie - International Edition, 2019, 58, 16508-16511. | 7.2 | 20 |
| 17 | Uncovering Multiple Metal-Metal Bonding in a Tetranuclear Fluoride Rhenium Cluster or the Curious Case of [Ni(H ₂ O) ₆](NH ₄) ₄ [Re ₄ F ₁₈]·4H ₂ O. European Journal of Inorganic Chemistry, 2019, 2019, 4129-4135. | 1.0 | 3 |
| 18 | X-ray absorption fine structure spectroscopic study of (NH ₄) ₂ ReF ₆ . SN Applied Sciences, 2019, 1, 1. | 1.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | An Americium-Containing Metal-Organic Framework: A Platform for Studying Transplutonium Elements. <i>Angewandte Chemie</i> , 2019, 131, 16660-16663. | 1.6 | 4 |
| 20 | An Atomistic Understanding of the Unusual Thermal Behavior of the Molecular Oxide Tc ₂ O ₇ . <i>Inorganic Chemistry</i> , 2019, 58, 5468-5475. | 1.9 | 1 |
| 21 | Zirconium chloride molecular species: combining electron impact mass spectrometry and first principles calculations. <i>SN Applied Sciences</i> , 2019, 1, 1. | 1.5 | 1 |
| 22 | Speciation of technetium in carbonate media under helium ions and $\hat{\text{T}}^3$ radiation. <i>Radiochimica Acta</i> , 2019, 107, 105-113. | 0.5 | 2 |
| 23 | Difluorotetrakis(2-oxypyridine)dirhenium(III) - Preparation, Crystallographic Structure, and Electrochemical Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 27-30. | 0.6 | 1 |
| 24 | Bis(tetraphenylarsonium) hexafluoridotechnetate(IV) dihydrate: preparation, structure and spectroscopic analysis. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1613-1616. | 0.2 | 3 |
| 25 | An unexpected rhenium(IV)-rhenium(VII) salt: [Co(NH ₃) ₆] ₃ [Re ^{VII} O ₄][Re ^{IV} F ₆] ₄ . <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 1158-1161. | | |
| 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> , 2018, 2018, 1137-1144. | 1.0 | 8 |
| 27 | Speciation and reactivity of heptavalent technetium in strong acids. <i>New Journal of Chemistry</i> , 2018, 42, 7522-7528. | 1.4 | 11 |
| 28 | 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. | 1.9 | 4 |
| 29 | Zirconium tetrachloride revisited. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 307-311. | 0.2 | 5 |
| 30 | Syntheses, Raman spectroscopy and crystal structures of alkali hexafluoridorhenates(IV) revisited. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 646-649. | 0.2 | 12 |
| 31 | Molecular and Electronic Structures of M ₂ O ₇ (M = Mn, Tc, Re). <i>Inorganic Chemistry</i> , 2017, 56, 2448-2458. | 1.9 | 16 |
| 32 | Technetium: The First Radioelement on the Periodic Table. <i>Journal of Chemical Education</i> , 2017, 94, 320-326. | 1.1 | 26 |
| 33 | The Corrosion Behavior of Technetium Metal Exposed to Aqueous Sulfate and Chloride Solutions. <i>Journal of the Electrochemical Society</i> , 2017, 164, C312-C316. | 1.3 | 1 |
| 34 | Thermal Expansion Behavior in TcO ₂ . Toward Breaking the Tc-Tc Bond. <i>Inorganic Chemistry</i> , 2017, 56, 9219-9224. | 1.9 | 7 |
| 35 | 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. | 0.5 | 5 |
| 36 | Hexaammine-cobalt(III) pertechnetate: preparation, structure and solubility. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 775-778. | 0.7 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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. | 1.9 | 5 |
| 38 | Octafluorodirhenate(III) Revisited: Solid-State Preparation, Characterization, and Multiconfigurational Quantum Chemical Calculations. <i>Inorganic Chemistry</i> , 2016, 55, 5417-5421. | 1.9 | 6 |
| 39 | Molecular and Electronic Structure of $\text{Re}_2\text{Br}_4(\text{PMe}_3)_4$. <i>Inorganic Chemistry</i> , 2016, 55, 7111-7116. | 1.9 | 1 |
| 40 | Ditechnetium Heptoxide Revisited: Solid-State, Gas-Phase, and Theoretical Studies. <i>Inorganic Chemistry</i> , 2016, 55, 10445-10452. | 1.9 | 17 |
| 41 | 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. | 0.7 | 32 |
| 42 | Speciation of technetium peroxo complexes in sulfuric acid revisited. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 1163-1167. | 0.7 | 2 |
| 43 | Hydrothermal synthesis and solid-state structures of polynuclear technetium iodide compounds. <i>Inorganica Chimica Acta</i> , 2015, 424, 329-335. | 1.2 | 3 |
| 44 | Characterization of TcCl_4 and $^{99}\text{TcCl}_3$ by X-ray absorption fine structure spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 235-239. | 0.7 | 4 |
| 45 | Speciation of Technetium in Sulfuric Acid/Hydrogen Sulfide Solutions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2046-2052. | 1.0 | 7 |
| 46 | Recent Advances in Technetium Halide Chemistry. <i>Accounts of Chemical Research</i> , 2014, 47, 624-632. | 7.6 | 20 |
| 47 | A Decade of Dinuclear Technetium Complexes with Multiple Metal-Metal Bonds. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4484-4495. | 1.0 | 5 |
| 48 | Chemical and electrochemical behavior of metallic technetium in acidic media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 1809-1817. | 0.7 | 4 |
| 49 | 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. | 1.6 | 25 |
| 50 | Diperoxo Pertechentic Acid Characterized by Spectroscopic and Quantum Chemical Studies. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4595-4600. | 1.0 | 5 |
| 51 | Hydrothermal synthesis and solid-state structure of $\text{Tc}_2(\text{O}_2\text{CCH}_3)_4\text{Cl}_2$. <i>Polyhedron</i> , 2013, 58, 115-119. | 1.0 | 8 |
| 52 | On the nature of heptavalent technetium in concentrated nitric and perchloric acid. <i>Inorganica Chimica Acta</i> , 2013, 398, 147-150. | 1.2 | 13 |
| 53 | X-ray Crystallographic and First-Principles Theoretical Studies of $\text{K}_2[\text{TcOCl}_5]$ and UV/Vis Investigation of the $[\text{TcOCl}_5]^{2-}$ and $[\text{TcOCl}_4]^{-}$ Ions. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1097-1104. | 1.0 | 3 |
| 54 | A Trigonal-Prismatic Hexanuclear Technetium(II) Bromide Cluster: Solid-State Synthesis and Crystallographic and Electronic Structure. <i>Inorganic Chemistry</i> , 2013, 52, 5660-5662. | 1.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Technetium Chemistry in the Fuel Cycle: Combining Basic and Applied Studies. <i>Inorganic Chemistry</i> , 2013, 52, 3573-3578. | 1.9 | 31 |
| 56 | Formation of Tc metal in 12M HCl using Zn as a reductant. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 1315-1321. | 0.7 | 2 |
| 57 | First evidence for the formation of technetium oxosulfide complexes: synthesis, structure and characterization. <i>Dalton Transactions</i> , 2012, 41, 6291. | 1.6 | 12 |
| 58 | 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. | 1.6 | 12 |
| 59 | On the Structure of δ^2 -Molybdenum Dichloride. <i>Inorganic Chemistry</i> , 2012, 51, 4965-4971. | 1.9 | 3 |
| 60 | 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, 9563-9570. | 1.9 | 9 |
| 61 | δ^2 -Technetium Trichloride: Formation, Structure, and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2012, 51, 4915-4917. | 1.9 | 21 |
| 62 | X-ray absorption fine structure spectroscopic study of uranium nitrides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 292, 989-994. | 0.7 | 26 |
| 63 | Preparation, magnetism and electronic structures of cadmium technetates. <i>Journal of Materials Chemistry</i> , 2011, 21, 1496-1502. | 6.7 | 9 |
| 64 | Technetium Dichloride: A New Binary Halide Containing Metal-Metal Multiple Bonds. <i>Journal of the American Chemical Society</i> , 2011, 133, 8814-8817. | 6.6 | 31 |
| 65 | Spectroscopic and structural characterization of reduced technetium species in acetate media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 288, 723-728. | 0.7 | 13 |
| 66 | Characterization of Electrodeposited Technetium on Gold Foil. <i>Journal of the Electrochemical Society</i> , 2011, 158, E32. | 1.3 | 12 |
| 67 | Synthesis and Structure of Technetium Trichloride. <i>Journal of the American Chemical Society</i> , 2010, 132, 15864-15865. | 6.6 | 31 |
| 68 | Structural, Spectroscopic, and Multiconfigurational Quantum Chemical Investigations of the Electron-Rich Metal-Metal Triple-Bonded $Tc_2X_4(PMe_3)_4$ ($X = Cl, Br$) Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 6646-6654. | 1.9 | 19 |
| 69 | Structural Studies of Technetium-Zirconium Alloys by X-ray Diffraction, High-Resolution Electron Microscopy, and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2010, 49, 1433-1438. | 1.9 | 14 |
| 70 | Speciation of heptavalent technetium in sulfuric acid: structural and spectroscopic studies. <i>Dalton Transactions</i> , 2010, 39, 8616. | 1.6 | 33 |
| 71 | Preparation of the Binary Technetium Bromides: $TcBr_3$ and $TcBr_4$. <i>Journal of the American Chemical Society</i> , 2009, 131, 910-911. | 6.6 | 32 |
| 72 | Crystal structure of octabromoditechnetate(III) and a multi-configurational quantum chemical study of the δ^2 transition in quadruply bonded $[M_2X_8]^{2-}$ dimers ($M = Tc, Re; X = Cl, Br$). <i>Dalton Transactions</i> , 2009, , 5954. | 1.6 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Synthesis, structure, and first-principles calculations of [TcBr ₂ (PMe ₃) ₄] and [Tc ₂ Br ₄ (PMe ₃) ₄] complexes. Dalton Transactions, 2009, , 10338. | 1.6 | 19 |
| 74 | Speciation of technetium and rhenium complexes by in situ XAS-electrochemistry. Radiochimica Acta, 2006, 94, 283-289. | 0.5 | 26 |
| 75 | Condensation mechanisms of tetravalent technetium in chloride media. Radiochimica Acta, 2006, 94, 291-299. | 0.5 | 14 |