

Nikolas Kaltsoyannis

List of Publications by Year in descending order

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219
docs citations

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times ranked

5010
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----------|-----------|
| 1 | A Stable Two-Coordinate Acyclic Silylene. <i>Journal of the American Chemical Society</i> , 2012, 134, 6500-6503. | 6.6 | 387 |
| 2 | Does Covalency Increase or Decrease across the Actinide Series? Implications for Minor Actinide Partitioning. <i>Inorganic Chemistry</i> , 2013, 52, 3407-3413. | 1.9 | 285 |
| 3 | Small Molecule Activation by Uranium Tris(aryloxides): Experimental and Computational Studies of Binding of N_2 , Coupling of CO, and Deoxygenation Insertion of CO_2 under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2011, 133, 9036-9051. | 6.6 | 218 |
| 4 | Recent developments in computational actinide chemistry. <i>Chemical Society Reviews</i> , 2003, 32, 9-16. | 18.7 | 209 |
| 5 | Structure, Reactivity, and Density Functional Theory Analysis of the Six-Electron Reductant, $[(C_5Me_5)_2U]_2(\eta^4-\eta^6-C_6H_6)$, Synthesized via a New Mode of $(C_5Me_5)_3M$ Reactivity. <i>Journal of the American Chemical Society</i> , 2004, 126, 14533-14547. | 6.6 | 206 |
| 6 | Multinuclear NMR, Raman, EXAFS, and X-ray diffraction studies of uranyl carbonate complexes in near-neutral aqueous solution. X-ray structure of $[C(NH_2)_3]_6[(UO_2)_3(CO_3)_6] \cdot 6.5H_2O$. <i>Inorganic Chemistry</i> , 1995, 34, 4797-4807. | 1.9 | 199 |
| 7 | Experimental and Theoretical Comparison of Actinide and Lanthanide Bonding in $M[N(EPR)_2]_3$ Complexes (M = U, Pu, La, Ce; E = S, Se, Te; R = Ph.) <i>J. Am. Chem. Soc.</i> 2014, 136, 11414-11424. | 10.784314 | 174 |
| 8 | Covalency in $AnCp_4$ (An = Th-Cm): a comparison of molecular orbital, natural population and atoms-in-molecules analyses. <i>Dalton Transactions</i> , 2010, 39, 6719. | 1.6 | 153 |
| 9 | Does covalency really increase across the 5f series? A comparison of molecular orbital, natural population, spin and electron density analyses of $AnCp_3$ (An = Th-Cm; Cp =) <i>J. Am. Chem. Soc.</i> 2011, 133, 10101-10110. | 10.784314 | 107 |
| 10 | Uncovering f-element bonding differences and electronic structure in a series of $1\lambda f_3$ and $1\lambda f_4$ complexes with a diselenophosphinate ligand. <i>Chemical Science</i> , 2013, 4, 1189. | 3.7 | 146 |
| 11 | A Generic One-Pot Route to Acyclic Two-Coordinate Silylenes from Silicon(IV) Precursors: Synthesis and Structural Characterization of a Silylsilylene. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 568-571. | 7.2 | 138 |
| 12 | Covalency in Ce^{IV} and U^{IV} Halide and N -Heterocyclic Carbene Bonds. <i>Chemistry - A European Journal</i> , 2010, 16, 9623-9629. | 1.7 | 137 |
| 13 | Relativistic effects in inorganic and organometallic chemistry. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 1-12. | 1.1 | 129 |
| 14 | Does metallophilicity increase or decrease down group 11? Computational investigations of $[ClM_2PH_3]_2$ ($M = Cu, Ag, Au, [111]$). <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 680-687. | 1.3 | 116 |
| 15 | Trivalent $[(C_5Me_5)_2(THF)Ln]_2(\eta^4-\eta^2-N_2)$ Complexes as Reducing Agents Including the Reductive Homologation of CO to a Ketene Carboxylate, $(\eta^4-\eta^4-O_2CCCO)_2$. <i>Journal of the American Chemical Society</i> , 2006, 128, 14176-14184. | 6.6 | 113 |
| 16 | Synthesis, Molecular and Electronic Structure of $U^{V}(O)[N(SiMe_3)_2]_3$. <i>Inorganic Chemistry</i> , 2012, 51, 1625-1633. | 1.9 | 109 |
| 17 | High Uptake of ReO_4^- and CO_2 Conversion by a Radiation-Resistant Thorium-Nickel Nanocage-Based Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6022-6027. | 7.2 | 109 |
| 18 | Energy-Degeneracy-Driven Covalency in Actinide Bonding. <i>Journal of the American Chemical Society</i> , 2018, 140, 17977-17984. | 6.6 | 108 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Covalency in the f Element- π Chalcogen Bond. Computational Studies of $M[N(EPR)_2]_3$ ($M = La, Ce, Pr, Pm, Eu, U, Np, Pu, Am, Cm; E = O, S, Se$), <i>Tj ETQq1 1 0.784314</i> | 1.9 | 103 |
| 20 | Computational Study of Analogues of the Uranyl Ion Containing the π -NUN Unit: A Density Functional Theory Calculations on UO_2^{2+} , UON^+ , UN_2 , $UO(NPH_3)_3^+$, $U(NPH_3)_2^{4+}$, $[UCl_4\{NPR_3\}_2]$ ($R = H, Me$), and $[UOCl_4\{NP(C_6H_5)_3\}]^-$. <i>Inorganic Chemistry</i> , 2000, 39, 6009-6017. | 1.9 | 103 |
| 21 | Group 3 and Lanthanide Boryl Compounds: Syntheses, Structures, and Bonding Analyses of $Sc^{\pi}B$, $Y^{\pi}B$, and $Lu^{\pi}B$ π -Coordinated NHC Analogues. <i>Journal of the American Chemical Society</i> , 2011, 133, 3836-3839. | 6.6 | 102 |
| 22 | Stable GaX_2 , InX_2 and TlX_2 radicals. <i>Nature Chemistry</i> , 2014, 6, 315-319. | 6.6 | 101 |
| 23 | Probing the Reactivity and Electronic Structure of a Uranium(V) Terminal Oxo Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 14224-14227. | 6.6 | 96 |
| 24 | The Oxidation State of Ce in the Sandwich Molecule Cerocene. <i>Journal of the American Chemical Society</i> , 1996, 118, 13115-13116. | 6.6 | 88 |
| 25 | Organometallic neptunium(III) complexes. <i>Nature Chemistry</i> , 2016, 8, 797-802. | 6.6 | 88 |
| 26 | On the inverse trans influence. Density functional studies of $[MOX_5]n^{\pi}$ ($M = Pa, n = 2; M = U, n = 1; M =$) <i>Tj ETQq0 0 0 rgBT /Overlock 2.3 86</i> | 2.3 | 86 |
| 27 | The Three-Dimensional Structure of the Titanium-Centered Active Site during Steady-State Catalytic Epoxidation of Alkenes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9028-9030. | 1.2 | 84 |
| 28 | Synthesis and Spectroscopic and Computational Characterization of the Chalcogenido-Substituted Analogues of the Uranyl Ion, $[OUE]^{2+}$ ($E = S, Se$). <i>Journal of the American Chemical Society</i> , 2013, 135, 5352-5355. | 6.6 | 81 |
| 29 | Do QTAIM metrics correlate with the strength of heavy element- π ligand bonds?. <i>Dalton Transactions</i> , 2013, 42, 13477. | 1.6 | 80 |
| 30 | Quantum chemical calculations on a selection of iodine-containing species (IO , OIO , INO_3 , $(IO)_2$, I_2O_3) <i>Tj ETQq0 0 0 rgBT /Overlock 1.3 79</i> | 1.3 | 79 |
| 31 | Metal- π Metal Bonding in Uranium- π Group 10 Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 3333-3345. | 6.6 | 79 |
| 32 | Synthesis and electronic structure of permethylindenyl complexes of iron and cobalt. <i>Organometallics</i> , 1992, 11, 48-55. | 1.1 | 77 |
| 33 | Bonding Trends Traversing the Tetravalent Actinide Series: Synthesis, Structural, and Computational Analysis of $An^{IV}(\pi-Ar)_{acnac}_4$ Complexes ($An = Th, U, Np, Pu$); <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1.9 76</i> | 1.9 | 76 |
| 34 | On the structure and coordination of the oxygen-donating species in Ti^{π} -MCM-41/TBHP oxidation catalysts: a density functional theory and EXAFS study. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1228-1240. | 1.3 | 74 |
| 35 | Hole localization in $[AlO_4]O$ defects in silica materials. <i>Journal of Chemical Physics</i> , 2005, 122, 144704. | 1.2 | 74 |
| 36 | Is Cerocene Really a Ce(III) Compound? All-Electron Spin- π Orbit Coupled CASPT2 Calculations on $M(\pi-C_8H_8)_2$ ($M = Th, Pa, Ce$). <i>Journal of Physical Chemistry A</i> , 2009, 113, 2896-2905. | 1.1 | 72 |

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|----|---|----------|-----------|
| 37 | The strength of actinide- π element bonds from the quantum theory of atoms-in-molecules. Dalton Transactions, 2015, 44, 2554-2566. | 1.6 | 72 |
| 38 | Electronic and structural investigations of technetium compounds by x-ray absorption spectroscopy. Inorganic Chemistry, 1995, 34, 193-198. | 1.9 | 68 |
| 39 | Heterobimetallic Complexes Containing Ca-Fe or Yb-Fe Bonds: Synthesis and Molecular and Electronic Structures of $[M\{CpFe(CO)_2\}_2(THF)_2(M)Tj]^{+}$ ($M = Ti, Zr, Hf, U, Th, Pa, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr$) | 0.784314 | 14 |
| 40 | Formation of a Ce(IV) Oxo Complex via Inner Sphere Nitrate Reduction. Journal of the American Chemical Society, 2016, 138, 12743-12746. | 6.6 | 63 |
| 41 | Nature of the Cycloheptatrienyl-Transition Metal Bond. A Study of Electron Distribution in the Mixed-Ring Sandwich Molecules $[Ti(\eta-C_7H_7)(\eta-C_5H_5)]$, $[Nb(\eta-C_7H_7)(\eta-C_5H_5)]$, $[Ta(\eta-C_7H_7)(\eta-C_5H_4Me)]$, and $[Mo(\eta-C_7H_7)(\eta-C_5H_5)]$ by Photoelectron Spectroscopy with Variable Photon Energy. Journal of the American Chemical Society, 1994, 116, 1994-2004. | 6.6 | 61 |
| 42 | Density functional theory investigation of the geometric and electronic structures of $[UO_2(H_2O)_m(OH)_n]^{2+n}$ ($n + m = 5$). Dalton Transactions, 2006, , 2403-2414. | 1.6 | 60 |
| 43 | Thallium(I) Sandwich, Multidecker, and Ether Complexes Stabilized by Weakly-Coordinating Anions: A Spectroscopic, Structural, and Theoretical Investigation. Journal of the American Chemical Society, 2007, 129, 881-894. | 6.6 | 60 |
| 44 | Electronic structure of f1 lanthanide and actinide complexes. Part 2. Non-relativistic and relativistic calculations of the ground state electronic structures and optical transition energies of $[Ce(\eta-C_5H_5)_3]$, $[Th(\eta-C_5H_5)_3]$ and $[Pa(\eta-C_8H_8)_2]$. Journal of Organometallic Chemistry, 1997, 528, 19-33. | 0.8 | 58 |
| 45 | Back bonding without π -bonding: a unique η^2 -complex of dinitrogen with uranium. Journal of Organometallic Chemistry, 2001, 635, 69-74. | 0.8 | 58 |
| 46 | Thorium- π ligand multiple bonds via reductive deprotection of a trityl group. Chemical Science, 2015, 6, 3891-3899. | 3.7 | 55 |
| 47 | Switchable η^2 -coordination and C-H metallation in small-cavity macrocyclic uranium and thorium complexes. Chemical Science, 2014, 5, 756-765. | 3.7 | 53 |
| 48 | Electronic Structure of $[U_2(\eta^4-N_2)(\eta^5-C_5Me_5)_2(\eta^8-C_8H_4(SiPri_3)_2)_2]$. Organometallics, 2004, 23, 832-835. | 1.1 | 52 |
| 49 | Characterizing Pressure-Induced Uranium C-H Agostic Bonds. Angewandte Chemie - International Edition, 2015, 54, 6735-6739. | 7.2 | 52 |
| 50 | A crystalline tri-thorium cluster with η^2 -aromatic metal-metal bonding. Nature, 2021, 598, 72-75. | 13.7 | 52 |
| 51 | Nature of the Transition Metal-Cycloheptatrienyl Bond. Computational Studies of the Electronic Structure of $[M(\eta^7-C_7H_7)(\eta^5-C_5H_5)]$ ($M = \text{groups 4-6}$). Organometallics, 2005, 24, 1189-1197. | 1.1 | 51 |
| 52 | Theoretical study of the geometric and electronic structures of pseudo-octahedral d0 imido compounds of titanium: the trans influence in mer- $[Ti(NR)Cl_2(NH_3)_3]$ ($R = \dots = \text{But, } C_6H_5 \text{ or } C_6H_4NO_2-4$). Journal of the Chemical Society Dalton Transactions, 1999, , 781-790. | 1.1 | 50 |
| 53 | On the Paucity of Molecular Actinide Complexes with Unsupported Metal-Metal Bonds: A Comparative Investigation of the Electronic Structure and Metal-Metal Bonding in U_2X_6 ($X = Cl, F, OH, NH_2, CH_3$) Complexes and d-Block Analogues. Inorganic Chemistry, 2006, 45, 6828-6839. | 1.9 | 50 |
| 54 | The Kubas interaction in M(ii) ($M = Ti, V, Cr$) hydrazine-based hydrogen storage materials: a DFT study. Dalton Transactions, 2012, 41, 8515. | 1.6 | 50 |

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|----|--|------|-----------|
| 55 | Emergence of the structure-directing role of f-orbital overlap-driven covalency. <i>Nature Communications</i> , 2019, 10, 634. | 5.8 | 50 |
| 56 | Systematic Investigation of Thorium(IV) and Uranium(IV) Ligand Bonding in Dithiophosphonate, Thioselenophosphinate, and Diselenophosphonate Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 10623-10631. | 1.9 | 49 |
| 57 | Synthesis and reactions of \hat{f}^2 -diketiminato-supported complexes with Mg-Fe or Yb-Fe bonds. <i>Chemical Communications</i> , 2013, 49, 3315. | 2.2 | 49 |
| 58 | Water Adsorption on AnO_2 {111}, {110}, and {100} Surfaces (An = U and Pu): A Density Functional Theory + <i>U</i> Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1675-1682. | 1.5 | 48 |
| 59 | Neptunium(vi) chain and neptunium(vi/v) mixed valence cluster complexes. <i>Chemical Communications</i> , 2009, , 917. | 2.2 | 47 |
| 60 | Transuranic Computational Chemistry. <i>Chemistry - A European Journal</i> , 2018, 24, 2815-2825. | 1.7 | 47 |
| 61 | Back-bonding between an electron-poor, high-oxidation-state metal and poor \hat{f} -acceptor ligand in a uranium(v) dinitrogen complex. <i>Nature Chemistry</i> , 2019, 11, 806-811. | 6.6 | 47 |
| 62 | Electronic Structure of $f1$ Actinide Complexes. 1. Nonrelativistic and Relativistic Calculations of the Optical Transition Energies of AnX_6 Complexes. <i>Inorganic Chemistry</i> , 1995, 34, 2735-2744. | 1.9 | 46 |
| 63 | Oxygen Vacancy Formation and Water Adsorption on Reduced AnO_2 {111}, {110}, and {100} Surfaces (An = U, Pu): A Computational Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7149-7165. | 1.5 | 45 |
| 64 | Covalency in the f-element chalcogen bond. <i>Journal of Alloys and Compounds</i> , 2007, 444-445, 369-375. | 2.8 | 44 |
| 65 | Covalency hinders $\text{AnO}_2(\text{H}_2\text{O})_2$ isomerisation (An = Pa-Pu). <i>Dalton Transactions</i> , 2016, 45, 3158-3162. | 1.6 | 44 |
| 66 | Variable photon energy photoelectron spectroscopy of osmium tetroxide and pseudopotential calculations of the valence ionization energies of OsO_4 and ruthenium tetroxide. <i>Inorganic Chemistry</i> , 1992, 31, 1588-1594. | 1.9 | 43 |
| 67 | Molecular Structures of Two Metal Tetrakis(tetrahydroborates), $\text{Zr}(\text{BH}_4)_4$ and $\text{U}(\text{BH}_4)_4$: Equilibrium Conformations and Barriers to Internal Rotation of the Triply Bridging BH_4 Groups. <i>Inorganic Chemistry</i> , 2002, 41, 6646-6655. | 1.9 | 43 |
| 68 | Zinc(II) \hat{f}^1 - and \hat{f}^2 -Toluene Complexes: Structure and Bonding in $\text{Zn}(\text{C}_6\text{F}_5)_2 \cdot (\text{toluene})$ and $\text{Zn}(\text{C}_6\text{F}_4\text{-2-C}_6\text{F}_5)_2 \cdot (\text{toluene})$. <i>Organometallics</i> , 2006, 25, 3311-3313. | 1.1 | 43 |
| 69 | Evidence for actinide metal to ligand \hat{f} backbonding. Density functional investigations of the electronic structure of $[(\text{NH}_2)_3(\text{NH}_3)\text{U}]_2(\hat{f}^{1/2}\text{-}\hat{f}^2\text{-}\hat{f}^2\text{-N}_2)$. <i>Chemical Communications</i> , 1998, , 1665-1666. | 2.2 | 41 |
| 70 | Are the Ground States of the Later Actinocenes Multiconfigurational? All-Electron Spin-Orbit Coupled CASPT2 Calculations on $\text{An}(\hat{f}^8\text{-C}_8\text{H}_8)_2$ (An = Th, U, Np, Pu, Am, Cm, Bk, Cf, Fm, Md, No, Lr) | 0.0 | 0 |
| 71 | A manganese hydride molecular sieve for practical hydrogen storage under ambient conditions. <i>Energy and Environmental Science</i> , 2019, 12, 1580-1591. | 15.6 | 41 |
| 72 | Synthesis and electronic and molecular structures of η^7 -cycloheptatrienyl η^5 -cyclopentadienyl derivatives of vanadium, niobium, and tantalum: photoelectron spectroscopic, electrochemical, and x-ray crystallographic study. <i>Organometallics</i> , 1992, 11, 3353-3361. | 1.1 | 40 |

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|----|---|-----|-----------|
| 73 | Metal-metal bonding in molecular actinide compounds: electronic structure of $[M_2X_8]^{2-}$ (M = U, Np). <i>J. Phys. Chem. B</i> , 2001, 105, 5476-5483. | 1.6 | 39 |
| 74 | Tetravalent Metal Complexation by Keggin and Lacunary Phosphomolybdate Anions. <i>Inorganic Chemistry</i> , 2008, 47, 5787-5798. | 1.9 | 39 |
| 75 | Energy Decomposition Analysis of Metal-Metal Bonding in $[M_2X_8]^{2-}$ (X = Cl, Br) Complexes of 5f (U, Np). <i>J. Phys. Chem. B</i> , 2001, 105, 10743-10751. | 1.9 | 38 |
| 76 | The first group 4 metal bis(imido) and tris(imido) complexes. <i>Chemical Science</i> , 2012, 3, 819-824. | 3.7 | 37 |
| 77 | Uranium Carbene-Imido Metalloallenes: Ancillary Ligand-Controlled <i>cis</i> / <i>trans</i> Isomerisation and Assessment of <i>trans</i> Influence in the $R_2C=U^{IV}=NR^2$ Unit (R=Ph ₂ PNSiMe ₃); <i>J. Phys. Chem. B</i> , 2001, 105, 10743-10751. | 1.7 | 37 |
| 78 | Why is the F ₂ bond so weak? A bond energy decomposition analysis. <i>New Journal of Chemistry</i> , 2003, 27, 1108. | 1.4 | 36 |
| 79 | Bond-Forming Reactions of Dications with Molecules: A Computational and Experimental Study of the Mechanisms for the Formation of HCF ₂ ⁺ from CF ₃ ²⁺ and H ₂ . <i>Journal of Physical Chemistry A</i> , 2006, 110, 2898-2905. | 1.1 | 36 |
| 80 | Catalyst: Nuclear Power in the 21 st Century. <i>Chem</i> , 2016, 1, 659-662. | 5.8 | 36 |
| 81 | Mono(arene) Complexes of Thallium(I) Supported by a Weakly Coordinating Anion. <i>Organometallics</i> , 2007, 26, 1811-1815. | 1.1 | 34 |
| 82 | Reductive silylation of a uranyl dibenzoylmethanate complex: an example of controlled uranyl oxo ligand cleavage. <i>Chemical Science</i> , 2014, 5, 3204-3213. | 3.7 | 34 |
| 83 | Electronic structure of metal chalcogen cubane clusters: photoelectron spectroscopic, electrochemical, and theoretical studies of $[(\eta\text{-C}_5\text{H}_4\text{Me})\text{TiS}]_4$, $[(\eta\text{-C}_5\text{H}_4\text{Me})\text{VS}]_4$, $[(\eta\text{-C}_5\text{H}_5)\text{CrO}]_4$, $[(\eta\text{-C}_5\text{H}_4\text{Me})\text{CrO}]_4$, $[(\eta\text{-C}_5\text{H}_4\text{Me})\text{CrS}]_4$, $[(\eta\text{-C}_5\text{H}_4\text{Me})\text{CrSe}]_4$, $[(\eta\text{-C}_5\text{H}_4\text{-iso-Pr})\text{MoS}]_4$, and $[(\eta\text{-C}_5\text{H}_4\text{-iso-Pr})\text{MoSe}]_4$. <i>Inorganic Chemistry</i> , 1992, 31, 3779-3791. | 1.9 | 33 |
| 84 | Uranium Metalloallenes with Carbene Imido $R_2C=U^{IV}=NR^2$ Units (R=Ph ₂ PNSiMe ₃ ; R=CPh ₃): Alkali-Metal-Mediated Push-Pull Effects with an Amido Auxiliary. <i>Chemistry - A European Journal</i> , 2016, 22, 11554-11558. | 3.7 | 33 |
| 85 | Theoretical Studies of the Electronic Structure of Compounds of the Actinide Elements. , 2008, , 1893-2012. | | 31 |
| 86 | Electron localization in the bis-arene complexes $[(\eta\text{-C}_6\text{H}_6)_2\text{Cr}]$ and $[(\eta\text{-C}_6\text{H}_5\text{Me})_2\text{Mo}]$: an investigation by photoelectron spectroscopy with variable photon energy. <i>Chemical Physics</i> , 1992, 164, 271-281. | 0.9 | 30 |
| 87 | Synthesis and characterisation of permethylindenyl complexes of cobalt and chromium: crystal structures of $[\text{Cr}(\eta\text{-C}_9\text{Me}_7)_2]$, $[\text{Co}(\eta\text{-C}_9\text{Me}_7)_2][\text{PF}_6]$ and $[\text{Cr}(\eta\text{-C}_9\text{Me}_7)_2][\text{PF}_6]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 383-392. | 1.1 | 30 |
| 88 | Synthesis, NMR studies, and molecular orbital calculations on cyclohexadienyl derivatives of (η ⁶ -arene)tris(pyrazolyl)ruthenium(II) compounds. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 3379-3390. | 1.1 | 30 |
| 89 | Are metal alkoxides linear owing to electrostatic repulsion?. <i>Chemical Communications</i> , 2002, , 2458-2459. | 2.2 | 30 |
| 90 | A Structural and Theoretical Investigation of Equatorial <i>cis</i> and <i>trans</i> Uranyl Phosphinimine and Uranyl Phosphine Oxide Complexes $\text{UO}_2\text{Cl}_2(\text{Cy}_3\text{PNH})_2$ and $\text{UO}_2\text{Cl}_2(\text{Cy}_3\text{PO})_2$. <i>Inorganic Chemistry</i> , 2007, 46, 4868-4875. | 1.9 | 30 |

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|-----|--|-----|-----------|
| 91 | Computational Study of Silica-Supported Transition Metal Fragments for Kubas-type Hydrogen Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 17296-17305. | 6.6 | 30 |
| 92 | Probing the Limits of Alkaline Earth-Transition Metal Bonding: An Experimental and Computational Study. <i>Journal of the American Chemical Society</i> , 2015, 137, 12352-12368. | 6.6 | 30 |
| 93 | Electronic structure of bulk AnO ₂ (An=U, Np, Pu) and water adsorption on the (111) and (110) surfaces of UO ₂ and PuO ₂ from hybrid density functional theory within the periodic electrostatic embedded cluster method. <i>Journal of Nuclear Materials</i> , 2016, 482, 124-134. | 1.3 | 30 |
| 94 | The performance of density functional theory for the description of ground and excited state properties of inorganic and organometallic uranium compounds. <i>Journal of Organometallic Chemistry</i> , 2018, 857, 58-74. | 0.8 | 30 |
| 95 | Quantum chemical topology and natural bond orbital analysis of M=O covalency in M(OC ₆ H ₅) ₄ (M = Ti, Zr, Hf, Ce, Th, Pa, U, Np). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16804-16812. | 1.3 | 29 |
| 96 | The shortest Th-Th distance from a new type of quadruple bond. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5070-5076. | 1.3 | 28 |
| 97 | Theoretical investigation of the effects of spin-orbit coupling on the valence photoelectron spectrum of OsO ₄ . <i>Inorganic Chemistry</i> , 1994, 33, 2315-2316. | 1.9 | 27 |
| 98 | The Reaction Chemistry of Plutonyl(VI) Chloride Complexes with Triphenyl Phosphineoxide and Triphenyl Phosphinimine. <i>Inorganic Chemistry</i> , 2010, 49, 9554-9562. | 1.9 | 27 |
| 99 | Computational analysis of M=O covalency in M(OC ₆ H ₅) ₄ (M = Ti, Zr, Hf, Ce, Th, Pa, U, Np). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16804-16812. | 1.6 | 26 |
| 100 | Exceptional uranium(VI)-nitride triple bond covalency from ¹⁵ N nuclear magnetic resonance spectroscopy and quantum chemical analysis. <i>Nature Communications</i> , 2021, 12, 5649. | 5.8 | 26 |
| 101 | Transition Metal Hydrazide-Based Hydrogen Storage Materials: the First Atoms-in-Molecules Analysis of the Kubas Interaction. <i>Chemistry - A European Journal</i> , 2012, 18, 1750-1760. | 1.7 | 25 |
| 102 | Thorium(IV) and Uranium(IV) <i>trans</i> -Calix[2]benzene[2]pyrrolide Alkyl and Alkynyl Complexes: Synthesis, Reactivity, and Electronic Structure. <i>Organometallics</i> , 2017, 36, 4669-4681. | 1.1 | 24 |
| 103 | Expanding metallaborane chemistry: an octahedral BH ₆ moiety supported through M-H-B bridges. <i>New Journal of Chemistry</i> , 2004, 28, 444-446. | 1.4 | 23 |
| 104 | Density Functional Theory-Based Prediction of Some Aqueous-Phase Chemistry of Superheavy Element 111. Roentgenium(I) Is the 'Softest' Metal Ion. <i>Inorganic Chemistry</i> , 2006, 45, 10780-10785. | 1.9 | 23 |
| 105 | All-electron CASPT2 study of Ce(η ⁸ -C ₈ H ₆) ₂ . <i>Comptes Rendus Chimie</i> , 2010, 13, 853-859. | 0.2 | 23 |
| 106 | Crystallinity-Modulated Co ₂ V ₄ O ₄ Nanoplates for Efficient Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2021, 11, 14884-14891. | 5.5 | 23 |
| 107 | Electron localization in a mixed-valence dinioabium benzene complex. <i>Chemical Science</i> , 2015, 6, 993-1003. | 3.7 | 22 |
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