Dominique Guillaumont

List of Publications by Year
in descending order

77 papers	2,288 citations	186265 28 h-index	223800 46 g-index

80 all docs	80 docs citations	80 times ranked	2192 citing authors

#	Article	IF	Citations
1	X-ray absorption spectroscopy and actinide electrochemistry: a setup dedicated to radioactive samples applied to neptunium chemistry. Journal of Synchrotron Radiation, 2022, 29, 1-10.	2.4	7
2	Effect of metal complexation on diglycolamide radiolysis: a comparison between ex situ gamma and in situ alpha irradiation. Physical Chemistry Chemical Physics, 2022, 24, 9213-9228.	2.8	16
3	Characterization of a Hexanuclear Plutonium(IV) Nanostructure in an Acetate Solution via Visibleâ€“Near Infrared Absorption Spectroscopy, Extended X-ray Absorption Fine Structure Spectroscopy, and Density Functional Theory. Inorganic Chemistry, 2022, 61, 4806-4817.	4.0	5
4	Influence of the First Coordination of Uranyl on Its Luminescence Properties: A Study of Uranyl Binitrate with N,N-Dialkyl Amide DEHiBA and Water. Inorganic Chemistry, 2022, 61, 890-901.	4.0	9
5	Force Field Parameterization of Actinyl Molecular Cations Using the 12-6-4 Model. Journal of Chemical Information and Modeling, 2022, 62, 2432-2445.	5.4	3
6	Modeling and Speciation Study of Uranium(VI) and Technetium(VII) with TBP. Solvent Extraction and Ion Exchange, 2021, 39, 305-327.	2.0	5
7	Insights from quantum chemical calculations into inner and outer-sphere complexation of plutonium(iv) by monoamide and carbamide extractants. Physical Chemistry Chemical Physics, 2021, 23, 2229-2237.	2.8	2
8	An experimental and computational look at the radiolytic degradation of TODGA and the effect on metal complexation. New Journal of Chemistry, 2021, 45, 12479-12493.	2.8	13
9	Aggregation of Bifunctional Extractants Used for Uranium(VI) Separation. Journal of Physical Chemistry B, 2021, 125, 10759-10771.	2.6	9
10	Perrhenate and pertechnetate complexation by an azacryptand in nitric acid medium. Dalton Transactions, 2020, 49, 1446-1455.	3.3	19
11	Coupling Raman spectroscopy and DFT study for enhanced description of nitrosyl nitrato nitrite ruthenium(III) complexes in nitric acid. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1213-1223.	1.5	4
12	Role of the Hydroxo Group in the Coordination of Citric Acid to Trivalent Americium. European Journal of Inorganic Chemistry, 2020, 2020, 1331-1344.	2.0	3
13	Coordination Structures of Uranium(VI) and Plutonium(IV) in Organic Solutions with Amide Derivatives. Inorganic Chemistry, 2020, 59, 1823-1834.	4.0	21
14	Extraction of Uranium(VI) and Plutonium(IV) with Tetra-Alkylcarbamides. Solvent Extraction and Ion Exchange, 2019, 37, 111-125.	2.0	17
15	Thermodynamics of plutonium(iii) and curium(iii) complexation with a N-donor ligand. Dalton Transactions, 2019, 48, 839-842.	3.3	3
16	Exploring the Coordination of Plutonium and Mixed Plutonylâ€“Uranyl Complexes of Imidodiphosphinates. Inorganic Chemistry, 2019, 58, 6904-6917.	4.0	3
17	Insight of the Metalâ€“Ligand Interaction in fâ€Element Complexes by Paramagnetic NMR Spectroscopy. Chemistry - A European Journal, 2019, 25, 4435-4451.	3.3	21
18	Structural and magnetic susceptibility characterization of Pu(<scp>v</scp>) aqua ion using sonochemistry as a facile synthesis method. Inorganic Chemistry Frontiers, 2018, 5, 100-111.	6.0	16

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19	Radiolytic stability of N,N-dialkyl amide: effect on Pu(iv) complexes in solution. Dalton Transactions, 2018, 47, 251-263.	3.3	22
20	The electronic structure of f-element Prussian blue analogs determined by soft X-ray absorption spectroscopy. Chemical Communications, 2018, 54, 12206-12209.	4.1	4
21	Understanding the synergistic effect on lanthanides(III) solvent extraction by systems combining a malonamide and a dialkyl phosphoric acid. Hydrometallurgy, 2017, 169, 542-551.	4.3	25
22	Inner to outer-sphere coordination of plutonium(<scp>iv</scp>) with N,N-dialkyl amide: influence of nitric acid. Dalton Transactions, 2017, 46, 3812-3815.	3.3	26
23	Structural Characterization of Am(III)- and Pu(III)-DOTA Complexes. Inorganic Chemistry, 2017, 56, 12248-12259.	4.0	22
24	Uranium Extraction by a Bifunctional Amido-Phosphonic Acid: Coordination Structure and Aggregation. Solvent Extraction and Ion Exchange, 2016, 34, 260-273.	2.0	13
25	Structures of Plutonium(IV) and Uranium(VI) with N,N-Dialkyl Amides from Crystallography, X-ray Absorption Spectra, and Theoretical Calculations. Inorganic Chemistry, 2016, 55, 5558-5569.	4.0	43
26	First Evidence of a Water-Soluble Plutonium(IV) Hexanuclear Cluster. European Journal of Inorganic Chemistry, 2016, 2016, 3536-3540.	2.0	26
27	Paramagnetism of Aqueous Actinide Cations. Part II: Theoretical Aspects and New Measurements on An(IV). Inorganic Chemistry, 2016, 55, 12149-12157.	4.0	11
28	Modeling and Speciation Study of Uranium(VI) and Technetium(VII) Coextraction with DEHiBA. Inorganic Chemistry, 2016, 55, 6511-6519.	4.0	29
29	Synergism in a HDEHP/TOPO Liquidâ€“Liquid Extraction System: An Intrinsic Ligands Property?. Journal of Physical Chemistry B, 2016, 120, 2814-2823.	2.6	37
30	The nature of chemical bonding in actinide and lanthanide ferrocyanides determined by X-ray absorption spectroscopy and density functional theory. Physical Chemistry Chemical Physics, 2016, 18, 2887-2895.	2.8	19
31	Liquid-Liquid Extraction of Acids and Water by a Malonamide: I-Anion Specific Effects on the Polar Core Microstructure of the Aggregated Malonamide. Solvent Extraction and Ion Exchange, 2014, 32, 601-619.	2.0	35
32	On the use of X-ray absorption spectroscopy to elucidate the structure of lutetium adenosine mono- and triphosphate complexes. Analytical and Bioanalytical Chemistry, 2014, 406, 1049-1061.	3.7	1
33	Density Functional Theory Calculations of the Redox Potentials of Actinide(VI)/Actinide(V) Couple in Water. Journal of Physical Chemistry A, 2013, 117, 4500-4505.	2.5	38
34	Thermodynamic Study of the Complexation of Protactinium(V) with Diethylenetriaminepentaacetic Acid. Inorganic Chemistry, 2013, 52, 7497-7507.	4.0	15
35	Experimental and theoretical study of the degradation of malonamide extractant molecules under ionizing radiation. RSC Advances, 2012, 2, 3954.	3.6	6
36	New Insights into Formation of Trivalent Actinides Complexes with DTPA. Inorganic Chemistry, 2012, 51, 12638-12649.	4.0	32

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37	Structural Versatility of Uranyl(VI) Nitrate Complexes That Involve the Diamide Ligand Et2N(C=O)(CH2)n(C=O)NEt2 (0 â‰¤ n â‰¤ 6). European Journal of Inorganic Chemistry, 2012, 2012, 3747-3763.	2.0	24
38	Complexation of Lanthanides(III), Americium(III), and Uranium(VI) with Bitopic N,O Ligands: an Experimental and Theoretical Study. Inorganic Chemistry, 2011, 50, 6557-6566.	4.0	52
39	Americium(III) coordination chemistry: An unexplored diversity of structure and bonding. Comptes Rendus Chimie, 2010, 13, 839-848.	0.5	29
40	Solving the Hydration Structure of the Heaviest Actinide Aqua Ion Known: The Californium(III) Case. Angewandte Chemie - International Edition, 2010, 49, 3811-3815.	13.8	64
41	Computational modeling of actinide materials and complexes. MRS Bulletin, 2010, 35, 883-888.	3.5	64
42	Molecular solids of actinide hexacyanoferrate: Structure and bonding. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012026.	0.6	2
43	Crystal and Electronic Structure of a Mixed-Valent Np(IV)â˜Np(V) Compound: [BuMeIm]5[Np(NpO2)3(H2O)6Cl12]. Inorganic Chemistry, 2010, 49, 2077-2082.	4.0	26
44	Investigating the electronic structure and bonding in uranyl compounds by combining NEXAFS spectroscopy and quantum chemistry. Physical Chemistry Chemical Physics, 2010, 12, 14253.	2.8	34
45	Structure of early actinides(V) in acidic solutions. Radiochimica Acta, 2009, 97, 347-353.	1.2	37
46	Thermodynamics and Structure of Actinide(IV) Complexes with Nitrilotriacetic Acid. Inorganic Chemistry, 2009, 48, 3943-3953.	4.0	28
47	Influence of the local atomic structure in the X-ray absorption near edge spectroscopy of neptunium oxo ions. Physical Chemistry Chemical Physics, 2009, 11, 10396.	2.8	10
48	A comparative study of actinide complexation in three ligand systems with increasing complexity. Journal of Physics: Conference Series, 2009, 190, 012185.	0.4	2
49	Mass spectrometry and theoretical investigation of di-alkylphosphoric acidâ€“lanthanide complexes. Radiochimica Acta, 2008, 96, .	1.2	11
50	Molecular Characterization of Actinide Oxocations from Protactinium to Plutonium. AIP Conference Proceedings, 2007, , .	0.4	1
51	Investigation of actinide compounds by coupling X-ray absorption spectroscopy and quantum chemistry. Journal of Alloys and Compounds, 2007, 444-445, 443-446.	5.5	18
52	Luminescent Eu(III) and Gd(III) Trisbipyridine Cryptates: Experimental and Theoretical Study of the Substituent Effects. ChemPhysChem, 2007, 8, 480-488.	2.1	48
53	Quantum yields and potential energy surfaces: a theoretical study. Journal of Physical Organic Chemistry, 2007, 20, 821-829.	1.9	57
54	Combining theoretical chemistry and XANES multi-edge experiments to probe actinide valence states. Comptes Rendus Chimie, 2007, 10, 859-871.	0.5	37

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55	Electronic Structure of High Oxidation State Actinide Species: Theoretical and Experimental Approaches. Nuclear Science and Engineering, 2006, 153, 203-206.	1.1	0
56	Modeling Selectivity in Liquid/Liquid Extraction. Nuclear Science and Engineering, 2006, 153, 207-222.	1.1	3
57	Actinide(III) and lanthanide(III) complexes with nitrogen ligands: Counterions and ligand substituent effects on the metalâ€“ligand bond. Computational and Theoretical Chemistry, 2006, 771, 105-110.	1.5	45
58	Studies of Structural and Electronic Properties of Uranium Compounds, by XANES Spectroscopy. Materials Research Society Symposia Proceedings, 2005, 893, 1.	0.1	1
59	Thermodynamic Study of the Complexation of Trivalent Actinide and Lanthanide Cations by ADPTZ, a Tridentate N-Donor Ligand. Inorganic Chemistry, 2005, 44, 1404-1412.	4.0	119
60	Theoretical chemical contribution to the simulation of the LIII X-ray absorption edges of uranyl, neptunyl and osmyl hydrates and hydroxides. New Journal of Chemistry, 2004, 28, 929.	2.8	27
61	Theoretical Study on the Photochromic Cycloreversion Reactions of Dithienylethenes; on the Role of the Conical Intersections. Journal of the American Chemical Society, 2004, 126, 12112-12120.	13.7	114
62	Quantum Chemistry Study of Actinide(III) and Lanthanide(III) Complexes with Tridentate Nitrogen Ligands. Journal of Physical Chemistry A, 2004, 108, 6893-6900.	2.5	106
63	An ab Initio MO Study of the Photochromic Reaction of Dithienylethenes. Journal of Physical Chemistry A, 2002, 106, 7222-7227.	2.5	117
64	Theoretical study of an intermediate, a factor determining the quantum yield in photochromism of diarylethene derivatives. Computational and Theoretical Chemistry, 2002, 579, 115-120.	1.5	55
65	Photoreactivity of Cr(CO)4(2,2â€˜-Bipyridine): Quantum Chemistry and Photodissociation Dynamics. Journal of Physical Chemistry A, 2001, 105, 1107-1114.	2.5	37
66	Multiphoton Gated Photochromic Reaction in a Diarylethene Derivative. Journal of the American Chemical Society, 2001, 123, 753-754.	13.7	95
67	Through-Space Exciton Coupling and Multimodal Na+/K+ Sensing Properties of Calix[4]arenecrowns with the Thienylene Analogue ofpara-Terphenoquinone as Chromophore. Angewandte Chemie - International Edition, 2000, 39, 2925-2928.	13.8	22
68	Photodissociation and electronic spectroscopy of transition metal hydrides carbonyls: quantum chemistry and wave packet dynamics. Journal of Organometallic Chemistry, 2000, 609, 66-76.	1.8	14
69	Calculation of the absorption wavelength of dyes using time-dependent density-functional theory (TD-DFT). Dyes and Pigments, 2000, 46, 85-92.	3.7	236
70	Spinâ^'Orbit Coupling Effects on the Metalâ^'Hydrogen Bond Homolysis of M(H)(CO)3(H-DAB) (M = Mn, Re;) Tj ETQq0 0 0 rgBT /Overloc	2.5	34
71	Photodissociation and Electronic Spectroscopy of Mn(H)(CO)3(H-DAB) (DAB = 1,4-Diaza-1,3-butadiene): Quantum Wave Packet Dynamics Based on ab Initio Potentials. Journal of the American Chemical Society, 1999, 121, 11733-11743.	13.7	36
72	A quantum chemical investigation of the metal-to-ligand-charge-transfer photochemistry. Coordination Chemistry Reviews, 1998, 177, 181-199.	18.8	27

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73	Metal-to-ligand charge-transfer photochemistry: quantum chemistry and dynamics of the systems RM(CO)3(DAB) (M î—» Mn; R î—» H, methyl, ethyl; M î—» Re, R î—» H, DAB î—» 1,4-diaza-1,3-butadiene). Coordination Chemistry Reviews, 1998, 171, 439-459.	18.8	21
74	Variation in Charge-Transfer Photochemistry Clarified by a CASSCF/MR-CCI Comparative Study of the Low-Lying Excited States of M(R)(CO)3(H-DAB) (M = Mn, R = H, Methyl, Ethyl; M = Re, R = H; DAB =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.8	14
75	Electronic Structure of the Lowest Excited States of Cr(CO)4(2,2â€˜-bipyridine):Â A CASSCF/CASPT2 Analysis. Inorganic Chemistry, 1997, 36, 1684-1688.	4.0	32
76	A CASSCF study of the relaxation effects in the lowest 3MLCT excited state of HMn(CO) 3(dab). Chemical Physics Letters, 1996, 257, 1-7.	2.6	7
77	Extraction of Uranium(VI) and Plutonium(IV) by New Tri Alkylcarbamides. Solvent Extraction and Ion Exchange, 0, , 1-22.	2.0	2