Joaquim MarÃ§alo

List of Publications by Year
in descending order

103	2,851	147801 31	206112 48
papers	citations	h-index	g-index

106	106	106	1784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	[U(Tp^{Me2})₂(bipy)]⁺: A Cationic Uranium(III) Complex with Single-Molecule-Magnet Behavior. Inorganic Chemistry, 2011, 50, 9915-9917.	4.0	119
2	Oxidation Studies of Dipositive Actinide Ions, An2+(An = Th, U, Np, Pu, Am) in the Gas Phase:Â Synthesis and Characterization of the Isolated Uranyl, Neptunyl, and Plutonyl Ions UO22+(g), NpO22+(g), and PuO22+(g). Journal of Physical Chemistry A, 2005, 109, 2768-2781.	2.5	111
3	A new definition of coordination number and its use in lanthanide and actinide coordination and organometallic chemistry. Polyhedron, 1989, 8, 2431-2437.	2.2	105
4	Theâ€œBareâ€•Uranyl(2+) Ion, UO22+. Angewandte Chemie International Edition in English, 1996, 35, 891-894.	4.4	100
5	Single-ion magnet behaviour in [U(TpMe2)2I]. Dalton Transactions, 2012, 41, 13568.	3.3	97
6	Gas-Phase Oxidation Reactions of Neptunium and Plutonium Ions Investigated via Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of Physical Chemistry A, 2002, 106, 7190-7194.	2.5	90
7	Gas-Phase Energetics of Actinide Oxides: An Assessment of Neutral and Cationic Monoxides and Dioxides from Thorium to Curium. Journal of Physical Chemistry A, 2009, 113, 12599-12606.	2.5	89
8	Gas-Phase Uranyl, Neptunyl, and Plutonyl: Hydration and Oxidation Studied by Experiment and Theory. Inorganic Chemistry, 2012, 51, 6603-6614.	4.0	86
9	FTICR-MS study of the gas-phase thermochemistry of americium oxides. International Journal of Mass Spectrometry, 2003, 228, 457-465.	1.5	63
10	New developments in gas-phase actinide ion chemistry. Coordination Chemistry Reviews, 2006, 250, 776-783.	18.8	63
11	Two-electron versus one-electron reduction of chalcogens by uranium(<scp>iii</scp>): synthesis of a terminal U(<scp>v</scp>) persulfide complex. Chemical Science, 2014, 5, 841-846.	7.4	60
12	Reactivity of a Tetrakis(pyrazolyl)borate Oxorhenium Complex. Inorganic Chemistry, 1995, 34, 2113-2120.	4.0	56
13	Infrared Spectra and Quantum Chemical Calculations of the Uranium Carbide Molecules UC and CUC with Triple Bonds. Journal of the American Chemical Society, 2010, 132, 8484-8488.	13.7	55
14	Gas-Phase Synthesis and FT/ICR Mass Spectrometric Characterization of Sandwich Complexes of Sc+, Y+, and Lanthanide Ions with 1,3,5-Tri-tert-butylbenzene. Journal of the American Chemical Society, 1994, 116, 8666-8672.	13.7	54
15	Identification of 7,4â€²-Dihydroxy-5-methoxyflavylium in â€œDragon's Bloodâ€• To Be or Not To Be an Anthocyanin. Chemistry - A European Journal, 2007, 13, 1417-1422.	3.3	53
16	Gas-Phase Reactions of the Bare Th²⁺ and U²⁺ Ions with Small Alkanes, CH₄, C₂H₆, and C₃H₈: Experimental and Theoretical Study of Elementary Organoactinide Chemistry. Journal of the American Chemical Society, 2011, 133, 1955-1970.	13.7	49
17	On the Upper Limits of Oxidation States in Chemistry. Angewandte Chemie - International Edition, 2018, 57, 3242-3245.	13.8	46
18	On the Origins of Faster Oxo Exchange for Uranyl(V) versus Plutonyl(V). Journal of the American Chemical Society, 2012, 134, 15488-15496.	13.7	45

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19	Gas-Phase Reactions of Hydrocarbons with An+ and AnO+ (An = Th, Pa, U, Np, Pu, Am, Cm):â€‰ The Active Role of 5f Electrons in Organoprotactinium Chemistry. Organometallics, 2007, 26, 3947-3956.	2.3	44
20	Uranium(III) Redox Chemistry Assisted by a Hemilabile Bis(phenolate) Cyclam Ligand: Uraniumâ€“Nitrogen Multiple Bond Formation Comprising a trans-{RNâ•U(VI)â•NR}²⁺ Complex. Inorganic Chemistry, 2015, 54, 9115-9126.	4.0	41
21	Gas-Phase Actinide Ion Chemistry:Â FT-ICR/MS Study of the Reactions of Thorium and Uranium Metal and Oxide Ions with Arenes. Organometallics, 1997, 16, 4581-4588.	2.3	40
22	Synthesis and characterization of rhenium complexes with the stabilizing ligand tetrakis(pyrazol-1-yl)borate. Inorganic Chemistry, 1993, 32, 5114-5118.	4.0	39
23	Formation of some transition metal oxide cluster anions and reactivity towards methanol in the gas phase. International Journal of Mass Spectrometry, 1999, 185-187, 825-835.	1.5	38
24	Diamine Bis(phenolate) as Supporting Ligands in Organoactinide(IV) Chemistry. Synthesis, Structural Characterization, and Reactivity of Stable Dialkyl Derivatives. Organometallics, 2013, 32, 1409-1422.	2.3	38
25	Gas phase actinide ion chemistry: Activation of alkanes and alkenes by thorium cations. International Journal of Mass Spectrometry and Ion Processes, 1996, 157-158, 265-274.	1.8	36
26	Actinide sulfides in the gas phase: experimental and theoretical studies of the thermochemistry of AnS (An = Ac, Th, Pa, U, Np, Pu, Am and Cm). Physical Chemistry Chemical Physics, 2011, 13, 12940.	2.8	36
27	Infrared spectra and quantum chemical calculations of the uranium-carbon molecules UC, CUC, UCH, and U(CC)2. Journal of Chemical Physics, 2011, 134, 244313.	3.0	36
28	Hydration of gas-phase ytterbium ion complexes studied by experiment and theory. Theoretical Chemistry Accounts, 2011, 129, 575-592.	1.4	36
29	Actinide poly(pyrazol-1-yl)borate complexes: synthesis and structure of hydrotris(3,5-dimethylpyrazol-1-yl)boratotrichlorotetrahydrofuran actinide(IV), M[HB(3,5-Me2Pz)3] Cl3(THF) (M=Th and U). Inorganica Chimica Acta, 1987, 132, 137-143.	2.4	33
30	A Mononuclear Uranium(IV) Singleâ€Molecule Magnet with an Azobenzene Radical Ligand. Chemistry - A European Journal, 2015, 21, 17817-17826.	3.3	32
31	Improving the selective extraction of lanthanides by using functionalised ionic liquids. Separation and Purification Technology, 2020, 237, 116354.	7.9	32
32	Oxidation of Gas-Phase Protactinium Ions, Pa+and Pa2+:Â Formation and Properties of PaO22+(g), Protactinyl. Journal of Physical Chemistry A, 2006, 110, 5751-5759.	2.5	31
33	Zero-field slow magnetic relaxation in a uranium(iii) complex with a radical ligand. Chemical Communications, 2014, 50, 10262-10264.	4.1	30
34	Synthesis and Hydrolysis of Uranyl, Neptunyl, and Plutonyl Gas-Phase Complexes Exhibiting Discrete Actinideâ€“Carbon Bonds. Organometallics, 2016, 35, 1228-1240.	2.3	30
35	Determination of the ionization energy of NpO2 and comparative ionization energies of actinide oxides. Journal of Nuclear Materials, 2005, 344, 24-29.	2.7	29
36	Gas-Phase Reactions of Doubly Charged Lanthanide Cations with Alkanes and Alkenes. Trends in Metal(2+) Reactivity. Journal of Physical Chemistry A, 2008, 112, 12647-12656.	2.5	29

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37	Gas-phase reactions of lanthanide cations with alcohols. International Journal of Mass Spectrometry, 2004, 234, 51-61.	1.5	28
38	Magnetic Properties of the Layered Lanthanide Hydroxide Series YxDy8-x(OH)20Cl4Â·6H2O: From Single Ion Magnets to 2D and 3D Interaction Effects. Inorganic Chemistry, 2015, 54, 1949-1957.	4.0	28
39	Gas-Phase Reactions of Uranate Ions, UO₂^{â^'}, UO₃^{â^'}, UO₄^{â^'}, and UO₄H^{â^'}, with Methanol: a Convergence of Experiment and Theory. Inorganic Chemistry, 2010, 49, 3836-3850.	4.0	27
40	Crystal structure diversity in the bis[hydrotris(3,5-dimethylpyrazolyl)borate]iodouranium(iii) complex: from neutral to cationic forms. Dalton Transactions, 2013, 42, 8861.	3.3	26
41	Gas Phase Chemistry of Bis(pentamethylcyclopentadienyl)samarium. Organometallics, 1996, 15, 345-349.	2.3	24
42	Reactivity of Lanthanide, Group 2, and Group 3 Metal and Metal Oxide Cations with Pentamethylcyclopentadiene:Â Gas-Phase Synthesis of Cyclopentadienyl Cations. Organometallics, 1997, 16, 3845-3850.	2.3	24
43	Actinide-Transition Metal Heteronuclear Ions and Their Oxides: {IrUO}+ as an Analogue to Uranyl. European Journal of Inorganic Chemistry, 2006, 2006, 3346-3349.	2.0	24
44	Laser desorption Fourier transform mass spectrometric analysis of organoactinides: uranium and thorium polypyrazolylborates. Organometallics, 1991, 10, 2794-2797.	2.3	23
45	Synthesis, characterization and reactivity of lantahnide(II) poly(pyrazol-1-yl)borates (Lnî—»Sm, Eu and Yb); fluorescence studies of [EuL2(THF)2] [Lî—»B(pz)4, HB(pz)3]; X-ray crystal structures of [Eu{B(pz)4}2(THF)2]		

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55	Oxo-Exchange of Gas-Phase Uranyl, Neptunyl, and Plutonyl with Water and Methanol. Inorganic Chemistry, 2014, 53, 2163-2170.	4.0	19
56	A novel samarium(<scp>ii</scp>) complex bearing a dianionic bis(phenolate) cyclam ligand: synthesis, structure and electron-transfer reactions. Dalton Transactions, 2016, 45, 3778-3790.	3.3	19
57	Thermal stability and specific heats of coordinating ionic liquids. Thermochimica Acta, 2020, 684, 178482.	2.7	19
58	Some reactions of hydrotris(3,5-dimethylpyrazolyl)-borato trichloroactinides(IV), MCl3(HBL3)Â·THF (M â‰¡ Tj ETQq0 0 0 rgBT /Overloc 219-224.	0.8	18
59	Gas phase reactivity of rare earth metal cations with trialkylorthoformates: synthesis of neutral rare earth alkoxides. International Journal of Mass Spectrometry, 2000, 195-196, 139-148.	1.5	17
60	The uraniumâ€“nitrogen bond in U(iv) complexes supported by the hydrotris(3,5-dimethylpyrazolyl)borate ligand. Dalton Transactions, 2005, , 3353.	3.3	17
61	Molecular Uranates: Laser Synthesis of Uranium Oxide Anions in the Gas Phase. Inorganic Chemistry, 2009, 48, 5055-5057.	4.0	17
62	Thorium and Uranium Carbide Cluster Cations in the Gas Phase: Similarities and Differences between Thorium and Uranium. Inorganic Chemistry, 2013, 52, 10968-10975.	4.0	16
63	CO₂ conversion to phenyl isocyanates by uranium(<scp>vi</scp>) bis(imido) complexes. Chemical Communications, 2020, 56, 431-434.	4.1	16
64	Bis[hydrotris(pyrazolyl)borato[dichloroactinide(IV) complexes: X-ray crystal structures of ThCl2(HBPz3)2 and UCl2(HBPz3)2. Polyhedron, 1990, 9, 1645-1652.	2.2	15
65	Ãœber Oxidationszahlâ€Obergrenzen in der Chemie. Angewandte Chemie, 2018, 130, 3297-3300.	2.0	15
66	Pentavalent Curium, Berkelium, and Californium in Nitrate Complexes: Extending Actinide Chemistry and Oxidation States. Inorganic Chemistry, 2018, 57, 9453-9467.	4.0	15
67	Alkoxide and aryloxide derivatives of actinide(IV) polypyrazolylborates. Part I. Uranium(IV) and thorium(IV) hydrotris(3,5-dimethylpyrazol-1-yl)borate complexes. Inorganica Chimica Acta, 1987, 134, 309-314.	2.4	14
68	Rare earth metal complexes anchored on a new dianionic bis(phenolate)dimethylamineCyclam ligand. Journal of Organometallic Chemistry, 2013, 728, 57-67.	1.8	14
69	Synthesis and Properties of Uranium Sulfide Cations. An Evaluation of the Stability of Thiouranyl, {Sâ•Uâ•S}²⁺. Inorganic Chemistry, 2013, 52, 14162-14167.	4.0	14
70	Metal-organic frameworks based on uranyl and phosphonate ligands. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 28-36.	1.1	14
71	Revealing Disparate Chemistries of Protactinium and Uranium. Synthesis of the Molecular Uranium Tetroxide Anion, UO₄^{â€“}. Inorganic Chemistry, 2017, 56, 3686-3694.	4.0	14
72	Synthesis and characterization of polynuclear lanthanide aryloxides. Journal of Alloys and Compounds, 2001, 323-324, 169-172.	5.5	13

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73	Europium(II) and ytterbium(II) aryloxide chemistry: synthesis and crystal structure of [Eu(OC6H3But2-2,6)2(THF)3]Â·0.75C7H8 and [Yb(OC6H3But2-2,6)2(NCMe)4]. Polyhedron, 2003, 22, 1425-1429.	2.2	12
74	Gas-phase reactions of doubly charged actinide cations with alkanes and alkenesâ€"probing the chemical activity of 5f electrons from Th to Cm. Physical Chemistry Chemical Physics, 2011, 13, 18322.	2.8	12
75	Alkoxide and aryloxide derivatives of actinide(IV) polypyrazolylborates. Part II. Uranium(IV) bis[hydrotris(pyrazol-1-yl)borate] complexes. Inorganica Chimica Acta, 1987, 134, 315-320.	2.4	11
76	Dissociation of Gas-Phase Bimetallic Clusters as a Probe of Charge Densities: The Effective Charge of Uranyl. Journal of Physical Chemistry A, 2014, 118, 2159-2166.	2.5	11
77	Gas-Phase Reaction Studies of Dipositive Hafnium and Hafnium Oxide Ions: Generation of the Peroxide HfO₂²⁺. Journal of Physical Chemistry A, 2012, 116, 12399-12405.	2.5	10
78	A 2D Layered Lanthanide Hydroxide Showing Slow Relaxation of Magnetization â€“ Dy₈(OH)₂₀Cl₄Â·6H₂O. European Journal of Inorganic Chemistry, 2013, 2013, 5059-5063.	2.0	10
79	Molecular Spectroscopy and Reactions of Actinides in the Gas Phase and Cryogenic Matrices. , 2010, , 4079-4156.		10
80	U(IV) and Th(IV) hydrotris(3,5-dimethylpyrazolyl)borate complexes with asymmetric metal centres. Inorganica Chimica Acta, 1987, 139, 83-85.	2.4	9
81	Comment on â€œControversy on the First Ionization Potential of PuO2 (Nearly) Settled by New Experimental Evidenceâ€• Journal of Physical Chemistry A, 2006, 110, 4131-4132.	2.5	8
82	Chemical evidence of the stability of praseodymium(v) in gas-phase oxide nitrate complexes. Chemical Communications, 2019, 55, 14139-14142.	4.1	8
83	Synthesis and characterization of UCl2[HB(3,5-Me2pz)3](3,5-Me2pz) and MCl3[HB(3,5-Me2pz)3](3,5-Me2pzH) (M=U(IV) and Th(IV); pz=pyrazolyl). Inorganica Chimica Acta, 1987, 139, 79-81.	2.4	7
84	Hydrotris(3,5-dimethylpyrazol-1-yl)borate carboxylate complexes of uranium and thorium. X-ray crystal structure of U(O2CCH3)3[HB(3,5-Me2Pz)3]. Polyhedron, 1992, 11, 501-506.	2.2	7
85	Gas-Phase Oxidation Reactions of Ta²⁺: Synthesis and Properties of TaO²⁺ and TaO₂²⁺. Journal of Physical Chemistry A, 2012, 116, 3534-3540.	2.5	7
86	Uranium(III, IV) and thorium(IV) pyrazolylmethane complexes: Synthesis and structures. Inorganica Chimica Acta, 2012, 385, 53-57.	2.4	7
87	Synthesis, structure and bonding of actinide disulphide dications in the gas phase. Physical Chemistry Chemical Physics, 2017, 19, 10685-10694.	2.8	7
88	Experimental and Computational Study of a Tetraazamacrocycle Bis(aryloxide) Uranyl Complex and of the Analogues {Eâ•Uâ•NR}²⁺ (E = O and NR). Inorganic Chemistry, 2022, 61, 346-356.	4.0	6
89	Oxidation of Actinyl(V) Complexes by the Addition of Nitrogen Dioxide Is Revealed via the Replacement of Acetate by Nitrite. Inorganic Chemistry, 2015, 54, 8755-8760.	4.0	5
90	Synthesis of 5H-chromeno[3,4-b]pyridines via DABCO-catalyzed [3 + 3] annulation of 3-nitro-2H-chromenes and allenoates. Organic and Biomolecular Chemistry, 2021, 19, 9711-9722.	2.8	5

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91	A magnetic study of a layered lanthanide hydroxide family: Ln8(OH)20Cl4Â·nH2O (Ln = Tb, Ho, Er). Dalton Transactions, 2018, 47, 16211-16217.	3.3	4
92	Synthesis and structural characterization of polynuclear divalent ytterbium complexes supported by a bis(phenolate) cyclam ligand. Polyhedron, 2016, 119, 277-285.	2.2	3
93	Gas-Phase Ion Chemistry of Rare Earths and Actinides. Fundamental Theories of Physics, 2014, 45, 1-110.	0.3	2
94	Amavadin and Homologues as Mediators of Water Oxidation. Angewandte Chemie, 2016, 128, 1511-1514.	2.0	2
95	A new krypton complex â€“ experimental and computational investigation of the krypton sulphur pentafluoride cation, [KrSF₅]⁺, in the gas phase. Physical Chemistry Chemical Physics, 2022, 24, 14631-14639.	2.8	2
96	Infrared Spectra of Rh12C and Rh13C in Solid Neon and Solid Argon. Chemical Physics Letters, 2012, 528, 7-10.	2.6	1
97	Crystal structure of bis[1-{(3,5-dimethyl-1H-pyrazol-1-yl)methyl}-3,5-dimethyl-1H-pyrazol-2-ium] hexachlorouranate(IV): [H2C(3,5-Me2pz)(3,5-Me2pzH)]2[UCl6]. Journal of Structural Chemistry, 2015, 56, 181-185.	1.0	1
98	Evidence for cathodic electrodeposition of radon species. Journal of Radioanalytical and Nuclear Chemistry, 1984, 86, 373-378.	1.5	0
99	Thermochemistry of Transuranium Actinide Oxide Molecules Investigated by FTICR-MS. AIP Conference Proceedings, 2003, , .	0.4	0
100	Synthesis and characterization of samarium, europium and ytterbium aryloxides. Journal of Alloys and Compounds, 2004, 374, 289-292.	5.5	0
101	Thermochemistry of Elementary Actinide Sulfide Molecules: A Gas-Phase Study of Curium Sulfide. Materials Research Society Symposia Proceedings, 2010, 1264, 1.	0.1	0
102	Preparation of dense 13C pellets using spark plasma sintering technique. Materials Research Innovations, 2013, 17, 289-292.	2.3	0
103	Corrigendum to â€œThermal stability and specific heats of coordinating ionic liquidsâ€•[Thermochim. Acta 684 (2020) 178482]. Thermochimica Acta, 2020, 685, 178537.	2.7	0