

# Joaquim MarÃ§alo

## List of Publications by Year in descending order

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103  
papers

2,851  
citations

147801

31  
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206112

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106  
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106  
docs citations

106  
times ranked

1784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Computational Study of a Tetraazamacrocyclic Bis(aryloxy) Uranyl Complex and of the Analogues $\{E\cdot U\cdot NR\}_{2+}$ (E = O and NR). <i>Inorganic Chemistry</i> , 2022, 61, 346-356.	4.0	6
2	A new krypton complex – experimental and computational investigation of the krypton sulphur pentafluoride cation, $[KrSF_5]^+$ , in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14631-14639.	2.8	2
3	Synthesis of 5H-chromeno[3,4-b]pyridines via DABCO-catalyzed [3 + 3] annulation of 3-nitro-2H-chromenes and allenates. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 9711-9722.	2.8	5
4	Thermal stability and specific heats of coordinating ionic liquids. <i>Thermochimica Acta</i> , 2020, 684, 178482.	2.7	19
5	$CO_2$ conversion to phenyl isocyanates by uranium( $\nu$ ) bis(imido) complexes. <i>Chemical Communications</i> , 2020, 56, 431-434.	4.1	16
6	Improving the selective extraction of lanthanides by using functionalised ionic liquids. <i>Separation and Purification Technology</i> , 2020, 237, 116354.	7.9	32
7	Corrigendum to –Thermal stability and specific heats of coordinating ionic liquids– [Thermochim. Acta 684 (2020) 178482]. <i>Thermochimica Acta</i> , 2020, 685, 178537.	2.7	0
8	Chemical evidence of the stability of praseodymium( $\nu$ ) in gas-phase oxide nitrate complexes. <i>Chemical Communications</i> , 2019, 55, 14139-14142.	4.1	8
9	–Obergrenzen in der Chemie. <i>Angewandte Chemie</i> , 2018, 130, 3297-3300.	2.0	15
10	On the Upper Limits of Oxidation States in Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3242-3245.	13.8	46
11	A magnetic study of a layered lanthanide hydroxide family: $Ln_8(OH)_{20}Cl_4 \cdot nH_2O$ (Ln = Tb, Ho, Er). <i>Dalton Transactions</i> , 2018, 47, 16211-16217.	3.3	4
12	Pentavalent Curium, Berkelium, and Californium in Nitrate Complexes: Extending Actinide Chemistry and Oxidation States. <i>Inorganic Chemistry</i> , 2018, 57, 9453-9467.	4.0	15
13	Synthesis, structure and bonding of actinide disulphide dications in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10685-10694.	2.8	7
14	Revealing Disparate Chemistries of Protactinium and Uranium. Synthesis of the Molecular Uranium Tetroxide Anion, $UO_4^{4-}$ . <i>Inorganic Chemistry</i> , 2017, 56, 3686-3694.	4.0	14
15	Amavadin and Homologues as Mediators of Water Oxidation. <i>Angewandte Chemie</i> , 2016, 128, 1511-1514.	2.0	2
16	Synthesis and Hydrolysis of Uranyl, Neptunyl, and Plutonyl Gas-Phase Complexes Exhibiting Discrete Actinide–Carbon Bonds. <i>Organometallics</i> , 2016, 35, 1228-1240.	2.3	30
17	Synthesis and structural characterization of polynuclear divalent ytterbium complexes supported by a bis(phenolate) cyclam ligand. <i>Polyhedron</i> , 2016, 119, 277-285.	2.2	3
18	Amavadin and Homologues as Mediators of Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1489-1492.	13.8	22

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19	A novel samarium( $\text{II}$ ) complex bearing a dianionic bis(phenolate) cyclam ligand: synthesis, structure and electron-transfer reactions. <i>Dalton Transactions</i> , 2016, 45, 3778-3790.	3.3	19
20	Oxidation of Actinyl(V) Complexes by the Addition of Nitrogen Dioxide Is Revealed via the Replacement of Acetate by Nitrite. <i>Inorganic Chemistry</i> , 2015, 54, 8755-8760.	4.0	5
21	A Mononuclear Uranium(IV) Single-Molecule Magnet with an Azobenzene Radical Ligand. <i>Chemistry - A European Journal</i> , 2015, 21, 17817-17826.	3.3	32
22	Synthesis and hydrolysis of gas-phase lanthanide and actinide oxide nitrate complexes: a correspondence to trivalent metal ion redox potentials and ionization energies. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9942-9950.	2.8	21
23	Magnetic Properties of the Layered Lanthanide Hydroxide Series $\text{YxDy}_{8-x}(\text{OH})_{20}\text{Cl}_4 \cdot 6\text{H}_2\text{O}$ : From Single Ion Magnets to 2D and 3D Interaction Effects. <i>Inorganic Chemistry</i> , 2015, 54, 1949-1957.	4.0	28
24	Gas-Phase Reactions of Molecular Oxygen with Uranyl(V) Anionic Complexes—Synthesis and Characterization of New Superoxides of Uranyl(VI). <i>Journal of Physical Chemistry A</i> , 2015, 119, 3628-3635.	2.5	23
25	Crystal structure of bis[1-((3,5-dimethyl-1H-pyrazol-1-yl)methyl)-3,5-dimethyl-1H-pyrazol-2-ium] hexachlorouranate(IV): $[\text{H}_2\text{C}(3,5\text{-Me}_2\text{pz})(3,5\text{-Me}_2\text{pzH})]_2[\text{UCl}_6]$ . <i>Journal of Structural Chemistry</i> , 2015, 56, 181-185.	1.0	1
26	Uranium(III) Redox Chemistry Assisted by a Hemilabile Bis(phenolate) Cyclam Ligand: Uranium—Nitrogen Multiple Bond Formation Comprising a <i>trans</i> - $\{\text{RN}=\text{U}(\text{VI})\cdot\text{NR}\}^{\text{2+}}$ Complex. <i>Inorganic Chemistry</i> , 2015, 54, 9115-9126.	4.0	41
27	Metal-organic frameworks based on uranyl and phosphonate ligands. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 28-36.	1.1	14
28	Two-electron versus one-electron reduction of chalcogens by uranium( $\text{III}$ ): synthesis of a terminal $\text{U}(\text{V})$ persulfide complex. <i>Chemical Science</i> , 2014, 5, 841-846.	7.4	60
29	Zero-field slow magnetic relaxation in a uranium(III) complex with a radical ligand. <i>Chemical Communications</i> , 2014, 50, 10262-10264.	4.1	30
30	Oxo-Exchange of Gas-Phase Uranyl, Neptunyl, and Plutonyl with Water and Methanol. <i>Inorganic Chemistry</i> , 2014, 53, 2163-2170.	4.0	19
31	Dissociation of Gas-Phase Bimetallic Clusters as a Probe of Charge Densities: The Effective Charge of Uranyl. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2159-2166.	2.5	11
32	Gas-Phase Ion Chemistry of Rare Earths and Actinides. <i>Fundamental Theories of Physics</i> , 2014, 45, 1-110.	0.3	2
33	Rare earth metal complexes anchored on a new dianionic bis(phenolate)dimethylamineCyclam ligand. <i>Journal of Organometallic Chemistry</i> , 2013, 728, 57-67.	1.8	14
34	Preparation of dense $^{13}\text{C}$ pellets using spark plasma sintering technique. <i>Materials Research Innovations</i> , 2013, 17, 289-292.	2.3	0
35	A 2D Layered Lanthanide Hydroxide Showing Slow Relaxation of Magnetization — $\text{Dy}_{8}(\text{OH})_{20}\text{Cl}_4 \cdot 6\text{H}_2\text{O}$ . <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5059-5063.	2.0	10
36	Crystal structure diversity in the bis[hydrotris(3,5-dimethylpyrazolyl)borate]iodouranium(III) complex: from neutral to cationic forms. <i>Dalton Transactions</i> , 2013, 42, 8861.	3.3	26

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37	Diamine Bis(phenolate) as Supporting Ligands in Organoactinide(IV) Chemistry. Synthesis, Structural Characterization, and Reactivity of Stable Dialkyl Derivatives. <i>Organometallics</i> , 2013, 32, 1409-1422.	2.3	38
38	Synthesis and Properties of Uranium Sulfide Cations. An Evaluation of the Stability of Thiouranyl, $\{S\cdot U\cdot S\}^{2+}$ . <i>Inorganic Chemistry</i> , 2013, 52, 14162-14167.	4.0	14
39	Thorium and Uranium Carbide Cluster Cations in the Gas Phase: Similarities and Differences between Thorium and Uranium. <i>Inorganic Chemistry</i> , 2013, 52, 10968-10975.	4.0	16
40	Gas-Phase Uranyl, Neptunyl, and Plutonyl: Hydration and Oxidation Studied by Experiment and Theory. <i>Inorganic Chemistry</i> , 2012, 51, 6603-6614.	4.0	86
41	On the Origins of Faster Oxo Exchange for Uranyl(V) versus Plutonyl(V). <i>Journal of the American Chemical Society</i> , 2012, 134, 15488-15496.	13.7	45
42	Gas-Phase Oxidation Reactions of $Ta^{2+}$ : Synthesis and Properties of $TaO^{2+}$ and $TaO_2^{2+}$ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 3534-3540.	2.5	7
43	Single-ion magnet behaviour in $[U(TpMe_2)_2]$ . <i>Dalton Transactions</i> , 2012, 41, 13568.	3.3	97
44	Gas-Phase Reaction Studies of Dipositive Hafnium and Hafnium Oxide Ions: Generation of the Peroxide $HfO_2^{2+}$ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 12399-12405.	2.5	10
45	Uranium(III, IV) and thorium(IV) pyrazolymethane complexes: Synthesis and structures. <i>Inorganica Chimica Acta</i> , 2012, 385, 53-57.	2.4	7
46	Infrared Spectra of Rh12C and Rh13C in Solid Neon and Solid Argon. <i>Chemical Physics Letters</i> , 2012, 528, 7-10.	2.6	1
47	Gas-phase reactions of doubly charged actinide cations with alkanes and alkenes – probing the chemical activity of 5f electrons from Th to Cm. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18322.	2.8	12
48	Gas-Phase Reactions of the Bare $Th^{2+}$ and $U^{2+}$ Ions with Small Alkanes, $CH_4$ , $C_2H_6$ , and $C_3H_8$ : Experimental and Theoretical Study of Elementary Organoactinide Chemistry. <i>Journal of the American Chemical Society</i> , 2011, 133, 1955-1970.	13.7	49
49	Actinide sulfides in the gas phase: experimental and theoretical studies of the thermochemistry of $AnS$ ( $An = Ac, Th, Pa, U, Np, Pu, Am$ and $Cm$ ). <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12940.	2.8	36
50	$[U(TpMe_2)_2(bipy)]^{+}$ : A Cationic Uranium(III) Complex with Single-Molecule-Magnet Behavior. <i>Inorganic Chemistry</i> , 2011, 50, 9915-9917.	4.0	119
51	Infrared spectra and quantum chemical calculations of the uranium-carbon molecules $UC$ , $CUC$ , $UCH$ , and $U(CC)_2$ . <i>Journal of Chemical Physics</i> , 2011, 134, 244313.	3.0	36
52	Hydration of gas-phase ytterbium ion complexes studied by experiment and theory. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 575-592.	1.4	36
53	Thermochemistry of Elementary Actinide Sulfide Molecules: A Gas-Phase Study of Curium Sulfide. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1264, 1.	0.1	0
54	Gas-Phase Reactions of Uranate Ions, $UO_2^{\cdot-}$ , $UO_3^{\cdot-}$ , $UO_4^{\cdot-}$ , and $UO_4H^{\cdot-}$ , with Methanol: a Convergence of Experiment and Theory. <i>Inorganic Chemistry</i> , 2010, 49, 3836-3850.	4.0	27

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55	Infrared Spectra and Quantum Chemical Calculations of the Uranium Carbide Molecules UC and CUC with Triple Bonds. <i>Journal of the American Chemical Society</i> , 2010, 132, 8484-8488.	13.7	55
56	Molecular Spectroscopy and Reactions of Actinides in the Gas Phase and Cryogenic Matrices. , 2010, , 4079-4156.		10
57	Gas-Phase Energetics of Actinide Oxides: An Assessment of Neutral and Cationic Monoxides and Dioxides from Thorium to Curium. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12599-12606.	2.5	89
58	Molecular Uranates: Laser Synthesis of Uranium Oxide Anions in the Gas Phase. <i>Inorganic Chemistry</i> , 2009, 48, 5055-5057.	4.0	17
59	Gas-Phase Oxidation of Cm <sup>+</sup> and Cm <sup>2+</sup> â€™ Thermodynamics of Neutral and Ionized CmO. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11373-11381.	2.5	23
60	Gas-Phase Reactions of Doubly Charged Lanthanide Cations with Alkanes and Alkenes. Trends in Metal(2+) Reactivity. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12647-12656.	2.5	29
61	Gas-Phase Reactions of Hydrocarbons with An <sup>+</sup> and AnO <sup>+</sup> (An = Th, Pa, U, Np, Pu, Am, Cm):â€™ The Active Role of 5f Electrons in Organoprotactinium Chemistry. <i>Organometallics</i> , 2007, 26, 3947-3956.	2.3	44
62	Identification of 7,4â€™-Dihydroxy-5-methoxyflavylium in â€™Dragon's Bloodâ€™: To Be or Not To Be an Anthocyanin. <i>Chemistry - A European Journal</i> , 2007, 13, 1417-1422.	3.3	53
63	FTICR/MS studies of gas-phase actinide ion reactions: fundamental chemical and physical properties of atomic and molecular actinide ions and neutrals. <i>European Physical Journal D</i> , 2007, 45, 133-138.	1.3	23
64	Oxidation of Gas-Phase Protactinium Ions, Pa <sup>+</sup> and Pa <sup>2+</sup> :â€™ Formation and Properties of PaO <sub>2</sub> <sup>2+</sup> (g), Protactinyl. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5751-5759.	2.5	31
65	Comment on â€™Controversy on the First Ionization Potential of PuO <sub>2</sub> (Nearly) Settled by New Experimental Evidenceâ€™. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4131-4132.	2.5	8
66	New developments in gas-phase actinide ion chemistry. <i>Coordination Chemistry Reviews</i> , 2006, 250, 776-783.	18.8	63
67	Actinide-Transition Metal Heteronuclear Ions and Their Oxides: {IrUO} <sup>+</sup> as an Analogue to Uranyl. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3346-3349.	2.0	24
68	Determination of the ionization energy of NpO <sub>2</sub> and comparative ionization energies of actinide oxides. <i>Journal of Nuclear Materials</i> , 2005, 344, 24-29.	2.7	29
69	The uraniumâ€™nitrogen bond in U(IV) complexes supported by the hydrotris(3,5-dimethylpyrazolyl)borate ligand. <i>Dalton Transactions</i> , 2005, , 3353.	3.3	17
70	Oxidation Studies of Dipositive Actinide Ions, An <sup>2+</sup> (An = Th, U, Np, Pu, Am) in the Gas Phase:â€™ Synthesis and Characterization of the Isolated Uranyl, Neptunyl, and Plutonyl Ions UO <sub>2</sub> <sup>2+</sup> (g), NpO <sub>2</sub> <sup>2+</sup> (g), and PuO <sub>2</sub> <sup>2+</sup> (g). <i>Journal of Physical Chemistry A</i> , 2005, 109, 2768-2781.	2.5	111
71	Gas-phase reactions of lanthanide cations with alcohols. <i>International Journal of Mass Spectrometry</i> , 2004, 234, 51-61.	1.5	28
72	Synthesis and characterization of samarium, europium and ytterbium aryloxides. <i>Journal of Alloys and Compounds</i> , 2004, 374, 289-292.	5.5	0

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73	Europium(II) and ytterbium(II) aryloxide chemistry: synthesis and crystal structure of [Eu(OC6H3But2-2,6)2(THF)3]·0.75C7H8 and [Yb(OC6H3But2-2,6)2(NCMe)4]. Polyhedron, 2003, 22, 1425-1429.	2.2	12
74	FTICR-MS study of the gas-phase thermochemistry of americium oxides. International Journal of Mass Spectrometry, 2003, 228, 457-465.	1.5	63
75	Thermochemistry of Transuranium Actinide Oxide Molecules Investigated by FTICR-MS. AIP Conference Proceedings, 2003, , .	0.4	0
76	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
77	Organolanthanide chemistry in the gas phase. Journal of Organometallic Chemistry, 2002, 647, 216-224.	1.8	22
78	Synthesis and characterization of polynuclear lanthanide aryloxides. Journal of Alloys and Compounds, 2001, 323-324, 169-172.	5.5	13
79	Gas-phase reactivity of lanthanide and actinide cations with the archetypal organometallic complexes Fe(CO)5 and Fe(C5H5)2. Journal of Organometallic Chemistry, 2001, 632, 126-132.	1.8	23
80	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
81	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
82	Gas-phase reactivity of rare earth cations with phenol: Competitive activation of C-O, O-H, and C-H bonds. Journal of the American Society for Mass Spectrometry, 1998, 9, 1035-1042.	2.8	23
83	Reactivity of Lanthanide, Group 2, and Group 3 Metal and Metal Oxide Cations with Pentamethylcyclopentadiene: A Gas-Phase Synthesis of Cyclopentadienyl Cations. Organometallics, 1997, 16, 3845-3850.	2.3	24
84	Gas-Phase Actinide Ion Chemistry: A 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
85	Gas Phase Chemistry of Bis(pentamethylcyclopentadienyl)samarium. Organometallics, 1996, 15, 345-349.	2.3	24
86	The Uryl(2+) Ion, UO2 <sup>2+</sup> . Angewandte Chemie International Edition in English, 1996, 35, 891-894.	4.4	100
87	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
88	Synthesis, characterization and reactivity of lanthanide(II) poly(pyrazol-1-yl)borates (Ln <sup>II</sup> →Sm, Eu and Yb); fluorescence studies of [EuL2(THF)2] [Ln <sup>II</sup> →B(pz)4, HB(pz)3]; X-ray crystal structures of [Eu{B(pz)4}2(THF)2]		

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91	Synthesis and characterization of rhenium complexes with the stabilizing ligand tetrakis(pyrazol-1-yl)borate. <i>Inorganic Chemistry</i> , 1993, 32, 5114-5118.	4.0	39
92	Bis[hydrotris(pyrazolyl)borate] thorium(IV) complexes: Synthesis and characterization of alkyl, thiolate, alkoxide and aryloxy derivatives and the x-ray crystal structure of Th(HBPz3)2(OPh)2. <i>Polyhedron</i> , 1992, 11, 909-915.	2.2	20
93	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]. <i>Polyhedron</i> , 1992, 11, 501-506.	2.2	7
94	Laser desorption Fourier transform mass spectrometric analysis of organoactinides: uranium and thorium polypyrazolylborates. <i>Organometallics</i> , 1991, 10, 2794-2797.	2.3	23
95	Bis[hydrotris(pyrazolyl)borato[dichloroactinide(IV) complexes: X-ray crystal structures of ThCl2(HBPz3)2 and UCl2(HBPz3)2. <i>Polyhedron</i> , 1990, 9, 1645-1652.	2.2	15
96	A new definition of coordination number and its use in lanthanide and actinide coordination and organometallic chemistry. <i>Polyhedron</i> , 1989, 8, 2431-2437.	2.2	105
97	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). <i>Inorganica Chimica Acta</i> , 1987, 132, 137-143.	2.4	33
98	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). <i>Inorganica Chimica Acta</i> , 1987, 139, 79-81.	2.4	7
99	Alkoxide and aryloxy derivatives of actinide(IV) polypyrazolylborates. Part I. Uranium(IV) and thorium(IV) hydrotris(3,5-dimethylpyrazol-1-yl)borate complexes. <i>Inorganica Chimica Acta</i> , 1987, 134, 309-314.	2.4	14
100	Alkoxide and aryloxy derivatives of actinide(IV) polypyrazolylborates. Part II. Uranium(IV) bis[hydrotris(pyrazol-1-yl)borate] complexes. <i>Inorganica Chimica Acta</i> , 1987, 134, 315-320.	2.4	11
101	U(IV) and Th(IV) hydrotris(3,5-dimethylpyrazolyl)borate complexes with asymmetric metal centres. <i>Inorganica Chimica Acta</i> , 1987, 139, 83-85.	2.4	9
102	Some reactions of hydrotris(3,5-dimethylpyrazolyl)-borato trichloroactinides(IV), MCl3(HBL3)·THF (M = U, Th). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1984, 86, 373-378.	0.8	18
103	Evidence for cathodic electrodeposition of radon species. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1984, 86, 373-378.	1.5	0