

Congzhi Wang

List of Publications by Year in descending order

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50
papers

1,354
citations

331670

21
h-index

345221

36
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51
all docs

51
docs citations

51
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly stable actinide(III) complexes supported by doubly aromatic ligands. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	1
2	Theoretical prediction of chiral actinide endohedral borospherenes. <i>New Journal of Chemistry</i> , 2021, 45, 6803-6810.	2.8	4
3	Theoretical insights into the possible applications of amidoxime-based adsorbents in neptunium and plutonium separation. <i>Dalton Transactions</i> , 2021, 50, 15576-15584.	3.3	5
4	Quantum chemical studies of selective back-extraction of Am(III) from Eu(III) and Cm(III) with two hydrophilic 1,10-phenanthroline-2,9-bis-triazolyl ligands. <i>Radiochimica Acta</i> , 2020, 108, 517-526.	1.2	11
5	Complexation of trivalent lanthanides and actinides with diethylenetriaminepentaacetic acid: Theoretical unraveling of bond covalency. <i>Journal of Molecular Liquids</i> , 2020, 299, 112174.	4.9	18
6	Theoretical Insights into Modification of Nitrogen-Donor Ligands to Improve Performance on Am(III)/Eu(III) Separation. <i>Inorganic Chemistry</i> , 2020, 59, 3221-3231.	4.0	23
7	Theoretical Study on the Reduction Mechanism of Np(VI) by Hydrazine Derivatives. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3720-3729.	2.5	6
8	Theoretical Insights into the Selective Extraction of Americium(III) over Europium(III) with Dithioamide-Based Ligands. <i>Inorganic Chemistry</i> , 2019, 58, 10047-10056.	4.0	48
9	Theoretical insights on the complexation of Am(III) and Cm(III) with amide-type ligands. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 993-1002.	1.5	11
10	Separation of actinides from lanthanides associated with spent nuclear fuel reprocessing in China: current status and future perspectives. <i>Radiochimica Acta</i> , 2019, 107, 951-964.	1.2	16
11	Modification of a Carbon Nanobelt with Actinides Thê“Am: A Density Functional Theory Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4900-4907.	2.5	3
12	A Theoretical Study on Divalent Heavier Group 14 Complexes as Promising Donor Ligands for Building Uraniumê“Metal Bonds. <i>Organometallics</i> , 2019, 38, 1963-1972.	2.3	10
13	Understanding Am³⁺/Cm³⁺ separation with H₄TPAEN and its hydrophilic derivatives: a quantum chemical study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14031-14039.	2.8	23
14	Insight into the Extraction Mechanism of Americium(III) over Europium(III) with Pyridylpyrazole: A Relativistic Quantum Chemistry Study. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4499-4507.	2.5	32
15	Uncovering the impact of â€“capsuleâ€™ shaped amine-type ligands on Am(<sc>iii</sc>)/Eu(<sc>iii</sc>) separation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1030-1038.	2.8	24
16	Theoretical Insights into Preorganized Pyridylpyrazole-Based Ligands toward the Separation of Am(III)/Eu(III). <i>Inorganic Chemistry</i> , 2018, 57, 14810-14820.	4.0	48
17	Theoretical Study on Unsupported Uraniumê“Metal Bonding in Uraniumê“Group 8 Complexes. <i>Organometallics</i> , 2018, 37, 3678-3686.	2.3	24
18	Influence of complexing species on the extraction of trivalent actinides from lanthanides with CyMe4ê“BTBP: a theoretical study. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 1453-1463.	1.5	11

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19	Complexation of vanadium with amidoxime and carboxyl groups: uncovering the competitive role of vanadium in uranium extraction from seawater. <i>Radiochimica Acta</i> , 2017, 105, 541-553.	1.2	19
20	Two novel thorium organic frameworks constructed by bi- and tritopic ligands. <i>Radiochimica Acta</i> , 2017, 105, 531-539.	1.2	1
21	A theoretical study on geometry, bonding nature, and stability of several anhydrous and hydrated Ln(III), Gd(III) and Yb(III) complexes in liquid scintillator solvents. <i>Inorganica Chimica Acta</i> , 2017, 463, 20-28.	2.4	2
22	Exploring New Assembly Modes of Uranyl Terephthalate: Templated Syntheses and Structural Regulation of a Series of Rare 2D \rightarrow 3D Polycatenated Frameworks. <i>Inorganic Chemistry</i> , 2017, 56, 7694-7706.	4.0	37
23	Theoretically unraveling the separation of Am(III)/Eu(III): insights from mixed N,O-donor ligands with variations of central heterocyclic moieties. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26969-26979.	2.8	69
24	Solvent-Dependent Synthesis of Porous Anionic Uranyl Organic Frameworks Featuring a Highly Symmetrical (3,4)-Connected ctn or bor Topology for Selective Dye Adsorption. <i>Chemistry - A European Journal</i> , 2017, 23, 529-532.	3.3	57
25	Binuclear trivalent and tetravalent uranium halides and cyanides supported by cyclooctatetraene ligands. <i>Radiochimica Acta</i> , 2017, 105, 21-32.	1.2	1
26	The redox mechanism of Np(VI) with hydrazine: a DFT study. <i>RSC Advances</i> , 2016, 6, 109045-109053.	3.6	10
27	Two-Dimensional Inorganic Cationic Network of Thorium Iodate Chloride with Unique Halogen-Halogen Bonds. <i>Inorganic Chemistry</i> , 2016, 55, 8570-8575.	4.0	8
28	Novel Uranyl Coordination Polymers Based on Quinoline-Containing Dicarboxylate by Altering Auxiliary Ligands: From 1D Chain to 3D Framework. <i>Crystal Growth and Design</i> , 2016, 16, 4886-4896.	3.0	27
29	Theoretical insight into the binding affinity enhancement of serine with the uranyl ion through phosphorylation. <i>RSC Advances</i> , 2016, 6, 69773-69781.	3.6	15
30	Adsorption of uranyl species on hydroxylated titanium carbide nanosheet: A first-principles study. <i>Journal of Hazardous Materials</i> , 2016, 308, 402-410.	12.4	115
31	I^{137} -Radiation effect on Th(IV) extraction behaviour of TODGA/[C ₂ mim] ₂ [NTf ₂]: identification and extractability study of radiolytic products. <i>RSC Advances</i> , 2016, 6, 7626-7632.	3.6	6
32	Theoretical studies on the complexation of Eu(III) and Am(III) with HDEHP: structure, bonding nature and stability. <i>Science China Chemistry</i> , 2016, 59, 324-331.	8.2	29
33	Theoretical Investigation on Incorporation and Diffusion Properties of Xe in Uranium Mononitride. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5783-5789.	3.1	14
34	Theoretical investigation on the solution behaviors of Ba and Zr in uranium dinitride. <i>Science China Chemistry</i> , 2015, 58, 1891-1897.	8.2	3
35	Halogen Bonded Three-Dimensional Uranyl Organic Compounds with Unprecedented Halogen-Halogen Interactions and Structure Diversity upon Variation of Halogen Substitution. <i>Crystal Growth and Design</i> , 2015, 15, 1395-1406.	3.0	36
36	Terminal U E (E = N, P, As, Sb, and Bi) Bonds in Uranium Complexes: A Theoretical Perspective. <i>Journal of Physical Chemistry A</i> , 2015, 119, 922-930.	2.5	38

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37	Two novel uranyl complexes of a semi-rigid aromatic tetracarboxylic acid supported by an organic base as an auxiliary ligand or a templating agent: an experimental and theoretical exploration. <i>CrystEngComm</i> , 2015, 17, 3031-3040.	2.6	16
38	A Quasi-relativistic Density Functional Theory Study of the Actinyl(VI, V) (An = U, Np, Pu) Complexes with a Six-Membered Macrocyclic Containing Pyrrole, Pyridine, and Furan Subunits. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9178-9188.	2.5	35
39	Rapid Determination of Uranium in Water Samples by Adsorptive Cathodic Stripping Voltammetry Using a Tin-Bismuth Alloy Electrode. <i>Electrochimica Acta</i> , 2015, 174, 925-932.	5.2	27
40	Template-Free Synthesis and Mechanistic Study of Porous Three-Dimensional Hierarchical Uranium-Containing and Uranium Oxide Microspheres. <i>Chemistry - A European Journal</i> , 2014, 20, 12655-12662.	3.3	20
41	Exploring Actinide Materials Through Synchrotron Radiation Techniques. <i>Advanced Materials</i> , 2014, 26, 7807-7848.	21.0	89
42	Understanding the Interactions of Neptunium and Plutonium Ions with Graphene Oxide: Scalar-Relativistic DFT Investigations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10273-10280.	2.5	57
43	Theoretical studies on the high-spin binuclear cyclopentadienyliron derivatives $Cp_2Fe_2(CN)_n$ ($Cp \equiv \eta^5-C_5H_5$). <i>Inorganic Chemistry</i> , 2014, 53, 740-750.	1.7	5
44	First-Principles Study of Water Reaction and H_2 Formation on UO_2 (111) and (110) Single Crystal Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21935-21944.	3.1	35
45	Design criteria for tetradentate phenanthroline-derived heterocyclic ligands to separate Am(III) from Eu(III). <i>Science China Chemistry</i> , 2014, 57, 1439-1448.	8.2	13
46	Theoretical Investigation on Multiple Bonds in Terminal Actinide Nitride Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 9607-9614.	4.0	73
47	Quantum Chemistry Study of Uranium(VI), Neptunium(V), and Plutonium(IV,VI) Complexes with Preorganized Tetradentate Phenanthrolineamide Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 10846-10853.	4.0	61
48	Theoretical Insights on the Interaction of Uranium with Amidoxime and Carboxyl Groups. <i>Inorganic Chemistry</i> , 2014, 53, 9466-9476.	4.0	103
49	First-Principles Study of Barium and Zirconium Stability in Uranium Mononitride Nuclear Fuels. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14579-14585.	3.1	11
50	Two new uranyl fluoride complexes with UVF ₆ alkali (Na, Cs) interactions: Experimental and theoretical studies. <i>CrystEngComm</i> , 2013, 15, 8041.	2.6	8