

Samuel O Odoh

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Cooperative insertion of CO ₂ in diamine-appended metal-organic frameworks. <i>Nature</i> , 2015, 519, 303-308.	27.8	1,026
2	Quantum-Chemical Characterization of the Properties and Reactivities of Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2015, 115, 6051-6111.	47.7	241
3	Metal-Organic Framework Nodes as Nearly Ideal Supports for Molecular Catalysts: NU-1000- and UiO-66-Supported Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 7391-7396.	13.7	228
4	Tuning Zr ₆ Metal-Organic Framework (MOF) Nodes as Catalyst Supports: Site Densities and Electron-Donor Properties Influence Molecular Iridium Complexes as Ethylene Conversion Catalysts. <i>ACS Catalysis</i> , 2016, 6, 235-247.	11.2	150
5	Strongly coupled binuclear uranium-oxo complexes from uranyl oxo rearrangement and reductive silylation. <i>Nature Chemistry</i> , 2012, 4, 221-227.	13.6	149
6	Harnessing redox activity for the formation of uranium tris(imido) compounds. <i>Nature Chemistry</i> , 2014, 6, 919-926.	13.6	145
7	Oxo-Functionalization and Reduction of the Uranyl Ion through Lanthanide-Element Bond Homolysis: Synthetic, Structural, and Bonding Analysis of a Series of Singly Reduced Uranyl-Rare Earth 5f ¹ -4f ⁿ Complexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 3841-3854.	13.7	107
8	Length-Dependent Nanotransport and Charge Hopping Bottlenecks in Long Thiophene-Containing π -Conjugated Molecular Wires. <i>Journal of the American Chemical Society</i> , 2015, 137, 15732-15741.	13.7	76
9	UO ₂ ²⁺ Uptake by Proteins: Understanding the Binding Features of the Super Uranyl Binding Protein and Design of a Protein with Higher Affinity. <i>Journal of the American Chemical Society</i> , 2014, 136, 17484-17494.	13.7	74
10	Investigation of the Electronic Ground States for a Reduced Pyridine(dimine) Uranium Series: Evidence for a Ligand Tetraanion Stabilized by a Uranium Dimer. <i>Journal of the American Chemical Society</i> , 2015, 137, 4690-4700.	13.7	62
11	Performance of Relativistic Effective Core Potentials in DFT Calculations on Actinide Compounds. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1957-1963.	2.5	60
12	Charge Transport in 4 nm Molecular Wires with Interrupted Conjugation: Combined Experimental and Computational Evidence for Thermally Assisted Polaron Tunneling. <i>ACS Nano</i> , 2016, 10, 4372-4383.	14.6	56
13	Structure and Reactivity of X-ray Amorphous Uranyl Peroxide, U ₂ O ₇ . <i>Inorganic Chemistry</i> , 2016, 55, 3541-3546.	4.0	50
14	Separated-pair approximation and separated-pair pair-density functional theory. <i>Chemical Science</i> , 2016, 7, 2399-2413.	7.4	47
15	Predicting Bond Dissociation Energies of Transition-Metal Compounds by Multiconfiguration Pair-Density Functional Theory and Second-Order Perturbation Theory Based on Correlated Participating Orbitals and Separated Pairs. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 616-626.	5.3	47
16	CO ₂ induced phase transitions in diamine-appended metal-organic frameworks. <i>Chemical Science</i> , 2015, 6, 5177-5185.	7.4	45
17	Probing the mechanism of CO ₂ capture in diamine-appended metal-organic frameworks using measured and simulated X-ray spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21448-21457.	2.8	43
18	DFT Study of Uranyl Peroxo Complexes with H ₂ O, F ⁻ , OH ⁻ , CO ₃ ²⁻ , and NO ₃ ⁻ . <i>Inorganic Chemistry</i> , 2013, 52, 5590-5602.	4.0	40

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19	Adsorption of Uranyl Species onto the Rutile (110) Surface: A Periodic DFT Study. Chemistry - A European Journal, 2012, 18, 1458-1466.	3.3	37
20	Theoretical Study of the Structural Properties of Plutonium(IV) and (VI) Complexes. Journal of Physical Chemistry A, 2011, 115, 14110-14119.	2.5	35
21	Coordination and Hydrolysis of Plutonium Ions in Aqueous Solution Using Carâ€Parrinello Molecular Dynamics Free Energy Simulations. Journal of Physical Chemistry A, 2013, 117, 12256-12267.	2.5	35
22	Theoretical Study of the Reduction of Uranium(VI) Aquo Complexes on Titania Particles and by Alcohols. Chemistry - A European Journal, 2012, 18, 7117-7127.	3.3	29
23	Investigation of the Electronic Structure of Mono(1,1â€²-Diamidofercene) Uranium(IV) Complexes. Organometallics, 2013, 32, 6012-6021.	2.3	27
24	Performance of Density Functional Theory for Predicting Methane-to-Methanol Conversion by a Tri-Copper Complex. Journal of Physical Chemistry C, 2018, 122, 1024-1036.	3.1	23
25	QM and QM/MM Studies of Uranyl Fluorides in the Gas and Aqueous Phases and in the Hydrophobic Cavities of Tetrabrachion. Inorganic Chemistry, 2011, 50, 3141-3152.	4.0	22
26	Can Multiconfigurational Self-Consistent Field Theory and Density Functional Theory Correctly Predict the Ground State of Metalâ€Metal-Bonded Complexes?. Journal of Chemical Theory and Computation, 2015, 11, 4093-4101.	5.3	20
27	Structures, spectroscopic properties and redox potentials of quaterpyridyl Ru(II) photosensitizer and its derivatives for solar energy cell: a density functional study. Physical Chemistry Chemical Physics, 2011, 13, 14481.	2.8	19
28	Oxo-Exchange of Gas-Phase Uranyl, Neptunyl, and Plutonyl with Water and Methanol. Inorganic Chemistry, 2014, 53, 2163-2170.	4.0	19
29	Preferential Location of Germanium in the UTL and IPC-2a Zeolites. Journal of Physical Chemistry C, 2014, 118, 26939-26946.	3.1	17
30	What Is the Preferred Conformation of Phosphatidylserineâ€Copper(II) Complexes? A Combined Theoretical and Experimental Investigation. Journal of Physical Chemistry B, 2016, 120, 12883-12889.	2.6	13
31	Ground-state actinide chemistry with scalar-relativistic multiconfiguration pair-density functional theory. Journal of Chemical Physics, 2019, 151, 134102.	3.0	12
32	Theoretical Study of Structural, Spectroscopic and Reaction Properties of <i>trans</i> -(imido) Uranium(VI) Complexes. Inorganic Chemistry, 2013, 52, 9143-9152.	4.0	11
33	Copper-Oxo Active Sites for Methane Câ€H Activation in Zeolites: Molecular Understanding of Impact of Methane Hydroxylation on UVâ€Vis Spectra. Inorganic Chemistry, 2021, 60, 8489-8499.	4.0	11
34	Time-Dependent Density Functional Theory Study of Copper(II) Oxo Active Sites for Methane-to-Methanol Conversion in Zeolites. Inorganic Chemistry, 2021, 60, 1149-1159.	4.0	10
35	Cationâ€Cation Interactions in [(UO ₂) ₂ (OH) _n] ⁴⁻ⁿ⁺ Complexes. Inorganic Chemistry, 2013, 52, 11269-11279.	4.0	8
36	DFT Study of Oxo-Functionalized Pentavalent Dioxouranium Complexes: Structure, Bonding, Ligand Exchange, Dimerization, and U(V)/U(IV) Reduction of OUOH and OUOSiH ₃ Complexes. Inorganic Chemistry, 2013, 52, 245-257.	4.0	8

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37	Performance of density functional theory for describing hetero-metallic active site motifs for methane-to-methanol conversion in metal-exchanged zeolites. <i>Journal of Computational Chemistry</i> , 2018, 39, 2667-2678.	3.3	8
38	Nitrogen Reduction by Multimetallic <i>trans</i> -Uranium Actinide Complexes: A Theoretical Comparison of Np and Pu to U. <i>Inorganic Chemistry</i> , 2019, 58, 6731-6741.	4.0	7
39	2D-IR studies of cyanamides (NCN) as spectroscopic reporters of dynamics in biomolecules: Uncovering the origin of mysterious peaks. <i>Journal of Chemical Physics</i> , 2020, 152, 074201.	3.0	7
40	Methane Over-Oxidation by Extra-Framework Copper-Oxo Active Sites of Copper-Exchanged Zeolites: Crucial Role of Traps for the Separated Methyl Group. <i>ChemPhysChem</i> , 2021, 22, 1101-1109.	2.1	7
41	Pyrazole, Imidazole, and Isoindolone Dipyrinone Analogues: pH-Dependent Fluorophores That Red-Shift Emission Frequencies in a Basic Solution. <i>Journal of Organic Chemistry</i> , 2019, 84, 11856-11862.	3.2	6
42	Copper-Oxo Active Sites in the 8MR of Zeolite Mordenite: DFT Investigation of the Impact of Acid Sites on Methanol Yield and Selectivity. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6684-6693.	3.1	5
43	Methane C-H Activation by [Cu ₂ O] ²⁺ and [Cu ₃ O ₃] ²⁺ in Copper-Exchanged Zeolites: Computational Analysis of Redox Chemistry and X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2021, 60, 6218-6227.	4.0	5
44	Correction to "Tuning Zr ₆ Metal-Organic Framework (MOF) Nodes as Catalyst Supports: Site Densities and Electron-Donor Properties Influence Molecular Iridium Complexes as Ethylene Conversion Catalysts". <i>ACS Catalysis</i> , 2018, 8, 2364-2364.	11.2	3
45	Heterometallic [Cu-O-M] ²⁺ active sites for methane C-H activation in zeolites: stability, reactivity, formation mechanism and relationship to other active sites. <i>Catalysis Science and Technology</i> , 2021, 11, 5671-5683.	4.1	3
46	F 1s spectroscopy and ionic fragmentation of trifluoropropyne. <i>Canadian Journal of Chemistry</i> , 2008, 86, 761-768.	1.1	2
47	Activating Water and Hydrogen by Ligand-Modified Uranium and Neptunium Complexes: A Density Functional Theory Study. <i>Inorganic Chemistry</i> , 2020, 59, 3102-3109.	4.0	2
48	DFT Analysis of Methane C-H Activation and Over-Oxidation by [Cu ₂ O] ²⁺ and [Cu ₂ O ₂] ²⁺ Sites in Zeolite Mordenite: Intra-versus Inter-site Over-Oxidation. <i>ChemPhysChem</i> , 2021, 22, 2517-2525.	2.1	2