

Athanasios Zavras

List of Publications by Year in descending order

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25
papers

537
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516561

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#	ARTICLE	IF	CITATIONS
1	Ligand-induced substrate steering and reshaping of $[\text{Ag}_2(\text{H})]^+$ scaffold for selective CO_2 extrusion from formic acid. <i>Nature Communications</i> , 2016, 7, 11746.	5.8	66
2	Synthesis, Structure and Gas-Phase Reactivity of a Silver Hydride Complex $[\text{Ag}_3\{(\text{PPh}_2)_2\text{CH}_2\}_3(\text{H})(\text{Cl})]\text{BF}_4$. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8391-8394.		
3	Synthesis, Structural Characterization, and Gas-Phase Unimolecular Reactivity of the Silver Hydride Nanocluster $[\text{Ag}_3(\text{PPh}_2)_2\text{CH}_2](\text{H})(\text{BF}_4)_2$. <i>Inorganic Chemistry</i> , 2014, 53, 7429-7437.	1.9	38
4	Selectivity Effects in Bimetallic Catalysis: Role of the Metal Sites in the Decomposition of Formic Acid into H_2 and CO_2 by the Coinage Metal Binuclear Complexes $[\text{dppmMM}(\text{H})]^{2+}$. <i>ChemCatChem</i> , 2017, 9, 1298-1302.	1.8	33
5	Gas-Phase Ion-Molecule Reactions of Copper Hydride Anions $[\text{CuH}_2]^{-}$ and $[\text{Cu}_2\text{H}_3]^{-}$. <i>Inorganic Chemistry</i> , 2017, 56, 2387-2399.	1.9	32
6	Decomposition of nitroimidazole ions: experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12598-12607.	1.3	31
7	Modular Molecules: Site-Selective Metal Substitution, Photoreduction, and Chirality in Polyoxometalate Hybrids. <i>Chemistry - A European Journal</i> , 2014, 20, 14102-14111.	1.7	30
8	Synthesis, structure and gas-phase reactivity of the mixed silver hydride borohydride nanocluster $[\text{Ag}_3(\text{H})(\text{BH}_4)_3\text{L}]\text{Ph}_3\text{BF}_4$. <i>Chemistry - A European Journal</i> , 2014, 20, 14112-14121.	1.7	28
9	Gas-phase VUV photoionisation and photofragmentation of the silver deuteride nanocluster $[\text{Ag}_{10}\text{D}_8\text{L}_6]^{2+}$ (L = bis(diphenylphosphino)methane). A joint experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25772-25777.	1.3	25
10	Non-Aqueous Microwave-Assisted Syntheses of Deca- and Hexa-Molybdovanadates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8568-8572.	7.2	25
11	2-Pyridylmethylphosphonic acid: a flexible, multi-dentate ligand for metal phosphonates. <i>CrystEngComm</i> , 2011, 13, 3551.	1.3	20
12	Formation and Characterisation of the Silver Hydride Nanocluster Cation $[\text{Ag}_3\text{H}_2(\text{Ph}_2\text{P})_2\text{CH}_2]^{+}$ and Its Release of Hydrogen. <i>Chemistry - A European Journal</i> , 2014, 20, 16626-16633.	1.7	20
13	Two Spin-State Reactivity in the Activation and Cleavage of CO_2 by $[\text{ReO}_2]^+$. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1934-1938.	2.1	19
14	Gas-Phase Structural and Optical Properties of Homo- and Heterobimetallic Rhombic Dodecahedral Nanoclusters $[\text{Ag}_{14}\text{Cu}_n(\text{C}_6\text{H}_5)_n\text{Bu}_{12}\text{X}]^{+}$ (X = Cl, Br, I). <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 10719-10727.	1.5	19
15	Bis(diphenylphosphino)methane ligated gold cluster cations: Synthesis and gas-phase unimolecular reactivity. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 242-248.	0.7	18
16	Blue turn-on fluorescent probes for the direct detection of free radicals and nitric oxide in <i>Pseudomonas aeruginosa</i> biofilms. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2272-2281.	1.5	17
17	ESI/MS investigation of routes to the formation of silver hydride nanocluster dications $[\text{Ag}_x\text{H}_x]^{2+}$ and gas-phase unimolecular chemistry of $[\text{Ag}_{10}\text{H}_8\text{L}_6]^{2+}$. <i>International Journal of Mass Spectrometry</i> , 2017, 413, 97-105.	0.7	13
18	An unusual co-crystal $[(\text{PPh}_2)_2\text{Ag}_2(\text{H})(\text{O})_2\text{CH}(\text{NO}_3)]_2$ and its connection to the selective decarboxylation of formic acid in the gas phase. <i>Dalton Transactions</i> , 2016, 45, 19408-19415.	1.6	12

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19	Bis(dimethylphosphino)methane-ligated silver chloride, cyanide and hydride cluster cations: Synthesis and gas-phase unimolecular reactivity. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 86-94.	0.7	10
20	Gas-Phase Reactions of the Rhenium Oxide Anions, $[\text{ReO}_x]^-$ ($x = 0, 1, 2$) with C_2H_2 . <i>Journal of Mass Spectrometry</i> , 2015, 21, 557-567.	0.5	9
21	Prying open a Reactive Site for Allylic Arylation by Phosphine-Ligated Geminally Diaurated Aryl Complexes. <i>Organometallics</i> , 2015, 34, 3255-3263.	1.1	9
22	Structure of the ligated Ag ₆₀ nanoparticle $[\{\text{Cl@Ag}_{12}\}@Ag_{48}(\text{dppm})_{12}]$ (where $\text{dppm} = \text{C}_6\text{H}_5\text{P}(\text{CH}_2)_2\text{P}(\text{C}_6\text{H}_5)_2$). <i>Journal of Mass Spectrometry</i> , 2015, 21, 557-567.	0.6	7
23	Nichtwässrige mikrowellengestützte Synthesen von Deca- und Hexamolybdovanadaten. <i>Angewandte Chemie</i> , 2017, 129, 8691-8695.	1.6	5
24	Gas Phase Formation, Structure and Reactivity of Gold Cluster Ions. <i>Structure and Bonding</i> , 2014, , 139-230.	1.0	3
25	Abstract: Synthesis, Structure and Gas-Phase Reactivity of a Silver Hydride Complex $[\text{Ag}_3\{(\text{PPh}_2)_2\text{CH}_2\}_3(\text{H})(\text{Cl})]\text{BF}_4$ (<i>Angew. Chem.</i> 32/2013). <i>Angewandte Chemie</i> , 2013, 125, 8632-8632.	1.6	1