

Joshua J Melko

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Activation of Methane by FeO ⁺ : Determining Reaction Pathways through Temperature-Dependent Kinetics and Statistical Modeling. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2029-2039.	1.1	46
2	Evaluation of the exothermicity of the chemi-ionization reaction Sm + O → SmO ⁺ + e ⁻ . <i>Journal of Chemical Physics</i> , 2015, 142, 134307.	1.2	44
3	Temperature Dependence of the OH ⁺ + CH ₃ I Reaction Kinetics. <i>Experimental and Simulation Studies and Atomic-Level Dynamics. Journal of Physical Chemistry A</i> , 2013, 117, 14019-14027.	1.1	40
4	Further Insight into the Reaction FeO ⁺ + H ₂ → Fe ⁺ + H ₂ O: Temperature Dependent Kinetics, Isotope Effects, and Statistical Modeling. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6789-6797.	1.1	38
5	Al _n Bi Clusters: Transitions Between Aromatic and Jellium Stability. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13316-13325.	1.1	29
6	Spin-inversion and spin-selection in the reactions FeO ⁺ + H ₂ and Fe ⁺ + N ₂ O. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19709-19717.	1.3	28
7	Iron cation catalyzed reduction of N ₂ O by CO: gas-phase temperature dependent kinetics. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11257.	1.3	26
8	Statistical modeling of the reactions Fe ⁺ + N ₂ O → FeO ⁺ + N ₂ and FeO ⁺ + CO → Fe ⁺ + CO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19700-19708.	1.3	24
9	Combined Experimental and Theoretical Study of Al _n X (n = 1-6; X = As, Sb) Clusters: Evidence of Aromaticity and the Jellium Model. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2045-2052.	1.1	23
10	Photoelectron imaging of small aluminum clusters: quantifying s-p hybridization. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3173.	1.3	23
11	Effect of Charge and Composition on the Structural Fluxionality and Stability of Nine Atom Tin-Bismuth Zintl Analogues. <i>Inorganic Chemistry</i> , 2008, 47, 10953-10958.	1.9	22
12	A novel technique for measurement of thermal rate constants and temperature dependences of dissociative recombination: CO ₂ ⁺ , CF ₃ ⁺ , N ₂ O ⁺ , C ₇ H ₈ ⁺ , C ₇ H ₇ ⁺ , C ₆ H ₆ ⁺ , C ₆ H ₅ ⁺ , C ₅ H ₆ ⁺ , C ₄ H ₄ ⁺ , and C ₃ H ₃ ⁺ . <i>Journal of Chemical Physics</i> , 2013, 138, 154201.	1.2	22
13	S-P Coupling Induced Unusual Open-Shell Metal Clusters. <i>Journal of the American Chemical Society</i> , 2014, 136, 4821-4824.	6.6	22
14	Exploring the Reactions of Fe ⁺ and FeO ⁺ with NO and NO ₂ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 11500-11508.	1.1	20
15	The applicability of three-dimensional aromaticity in BiSnn Zintl analogues. <i>Journal of Chemical Physics</i> , 2010, 133, 134302.	1.2	17
16	Temperature dependences for the reactions of O ₂ ⁺ and O ⁺ with N and O atoms in a selected-ion flow tube instrument. <i>Journal of Chemical Physics</i> , 2013, 139, 144302.	1.2	17
17	Origins of Stability in Mixed Bismuth-Indium Clusters. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15963-15972.	1.5	16
18	Effect of higher order solvation and temperature on SN ₂ and E ₂ reactivity. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 54-58.	0.7	16

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19	Anion Photoelectron Spectroscopy and First-Principles Study of Pb _x In _y Clusters. Journal of Physical Chemistry C, 2010, 114, 20907-20916.	1.5	15
20	Electronic structure of Bi_3 cluster. Chemical Physics Letters, 2009, 467, 223-229.		
21	Resilient aromaticity in lead-indium clusters. Chemical Physics Letters, 2010, 500, 196-201.	1.2	13
22	Kinetics of CO ⁺ and CO ₂ ⁺ with N and O atoms. Journal of Chemical Physics, 2018, 148, 084305.	1.2	13
23	Electronic Structure Similarities in Pb _x Sb _y ⁺ and Sn _x Bi _y ⁺ Clusters. Journal of Physical Chemistry A, 2011, 115, 10276-10280.	1.1	12
24	Temperature and Isotope Dependent Kinetics of Nickel-Catalyzed Oxidation of Methane by Ozone. Journal of Physical Chemistry A, 2018, 122, 6655-6662.	1.1	12
25	Probing the Electronic Structures and Relative Stabilities of Monomagnesium Oxide Clusters MgO _x (x = 1-4): A Combined Photoelectron Imaging and Theoretical Investigation. Journal of Physical Chemistry A, 2013, 117, 11896-11905.	1.1	11
26	Incorporating time-of-flight detection on a selected ion flow tube apparatus. International Journal of Mass Spectrometry, 2015, 377, 479-483.	0.7	11
27	Determining Rate Constants and Mechanisms for Sequential Reactions of Fe ⁺ with Ozone at 500 K. Journal of Physical Chemistry A, 2017, 121, 24-30.	1.1	10
28	Selected-ion flow tube temperature-dependent measurements for the reactions of O ₂ ⁺ with N atoms and N ₂ ⁺ with O atoms. Journal of Chemical Physics, 2015, 142, 154305.	1.2	9
29	Stability and electronic properties of isoelectronic heteroatomic analogs of. Chemical Physics Letters, 2011, 505, 92-95.	1.2	8
30	Electron Attachment to C ₇ F ₁₄ , Thermal Detachment from C ₇ F ₁₄ ⁺ , the Electron Affinity of C ₇ F ₁₄ , and Neutralization of C ₇ F ₁₄ ⁺ by Ar ⁺ . Journal of Physical Chemistry A, 2012, 116, 10293-10300.	1.1	8
31	Reactions of Fe ⁺ and FeO ⁺ with C ₂ H ₂ , C ₂ H ₄ , and C ₂ H ₆ : Temperature-Dependent Kinetics. Journal of Physical Chemistry A, 2013, 117, 10178-10185.	1.1	8
32	Electron delocalization in a non-cyclic all-metal III-V cluster. Chemical Physics Letters, 2009, 480, 189-192.	1.2	7
33	Structural Evolution of Triniobium Carbide Clusters: Evidence of Large C _n Chains (n = 3-10) in Nb ₃ C _n ⁺ (n = 5-10) Clusters. Journal of Physical Chemistry A, 2010, 114, 1290-1297.	1.1	6
34	Coupling an electrospray source and a solids probe/chemical ionization source to a selected ion flow tube apparatus. Review of Scientific Instruments, 2015, 86, 084101.	0.6	6
35	Mechanisms of sequential ion-molecule reactions in protonated methanol using mass spectrometry, ab initio methods, and statistical modeling. Chemical Physics, 2019, 525, 110420.	0.9	5
36	Temperature dependences for the reactions of Ar ⁺ , O ₂ ⁺ , and C ₇ H ₇ ⁺ with toluene and ethylbenzene. International Journal of Mass Spectrometry, 2013, 353, 60-66.	0.7	3

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37	Temperature-Dependent Kinetics of Charge Transfer, Hydrogen-Atom Transfer, and Hydrogen-Atom Expulsion in the Reaction of CO ⁺ with CH ₄ and CD ₄ . Journal of Physical Chemistry A, 2014, 118, 8141-8146.	1.1	3
38	Comment on "Role of (NO) ₂ Dimer in Reactions of Fe ⁺ with NO and NO ₂ Studied by ICP-SIFT Mass Spectrometry". Journal of Physical Chemistry A, 2013, 117, 9108-9110.	1.1	2