Joshua J Melko

List of Publications by Year
in descending order

38	649	567281 15	610901 24
papers	citations	h-index	g-index

38	38	38	541
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms of sequential ion-molecule reactions in protonated methanol using mass spectrometry, ab initio methods, and statistical modeling. Chemical Physics, 2019, 525, 110420.	1.9	5
2	Kinetics of CO+ and CO2+ with N and O atoms. Journal of Chemical Physics, 2018, 148, 084305.	3.0	13
3	Temperature and Isotope Dependent Kinetics of Nickel-Catalyzed Oxidation of Methane by Ozone. Journal of Physical Chemistry A, 2018, 122, 6655-6662.	2.5	12
4	Determining Rate Constants and Mechanisms for Sequential Reactions of Fe⁺ with Ozone at 500 K. Journal of Physical Chemistry A, 2017, 121, 24-30.	2.5	10
5	Spin-inversion and spin-selection in the reactions FeO⁺ + H₂ and Fe⁺ + N₂O. Physical Chemistry Chemical Physics, 2015, 17, 19709-19717.	2.8	28
6	Statistical modeling of the reactions Fe⁺ + N₂O â†' FeO⁺ + N₂ and FeO⁺ + CO â†' Fe⁺ + CO₂. Physical Chemistry Chemical Physics, 2015, 17, 19700-19708.	2.8	24
7	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.	1.3	6
8	Evaluation of the exothermicity of the chemi-ionization reaction Sm + O â†' SmO+ + eâ˜'. Journal of Chemical Physics, 2015, 142, 134307.	3.0	44
9	Selected-ion flow tube temperature-dependent measurements for the reactions of O2+ with N atoms and N2+ with O atoms. Journal of Chemical Physics, 2015, 142, 154305.	3.0	9
10	Effect of higher order solvation and temperature on SN2 and E2 reactivity. International Journal of Mass Spectrometry, 2015, 378, 54-58.	1.5	16
11	Incorporating time-of-flight detection on a selected ion flow tube apparatus. International Journal of Mass Spectrometry, 2015, 377, 479-483.	1.5	11
12	Further Insight into the Reaction FeO⁺ + H₂ â†' Fe⁺ + H₂O: Temperature Dependent Kinetics, Isotope Effects, and Statistical Modeling. Journal of Physical Chemistry A, 2014, 118, 6789-6797.	2.5	38
13	S-P Coupling Induced Unusual Open-Shell Metal Clusters. Journal of the American Chemical Society, 2014, 136, 4821-4824.	13.7	22
14	Temperature-Dependent Kinetics of Charge Transfer, Hydrogen-Atom Transfer, and Hydrogen-Atom Expulsion in the Reaction of CO⁺ with CH₄ and CD₄. Journal of Physical Chemistry A, 2014, 118, 8141-8146.	2.5	3
15	Activation of Methane by FeO⁺: Determining Reaction Pathways through Temperature-Dependent Kinetics and Statistical Modeling. Journal of Physical Chemistry A, 2014, 118, 2029-2039.	2.5	46
16	Photoelectron imaging of small aluminum clusters: quantifying sâ€"p hybridization. Physical Chemistry Chemical Physics, 2013, 15, 3173.	2.8	23
17	Comment on â€œRole of (NO)₂ Dimer in Reactions of Fe⁺ with NO and NO₂ Studied by ICP-SIFT Mass Spectrometryâ€. Journal of Physical Chemistry A, 2013, 117, 9108-9110.	2.5	2
18	Reactions of Fe⁺ and FeO⁺ with C₂H₂, C₂H₄, and C₂H₆: Temperature-Dependent Kinetics. Journal of Physical Chemistry A, 2013, 117, 10178-10185.	2.5	8

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19	Iron cation catalyzed reduction of N2O by CO: gas-phase temperature dependent kinetics. Physical Chemistry Chemical Physics, 2013, 15, 11257.	2.8	26
20	Temperature dependences for the reactions of Ar+, O2+, and C7H7+ with toluene and ethylbenzene. International Journal of Mass Spectrometry, 2013, 353, 60-66.	1.5	3
21	Probing the Electronic Structures and Relative Stabilities of Monomagnesium Oxide Clusters MgOxâ€“ and MgOx (x = 1â€“4): A Combined Photoelectron Imaging and Theoretical Investigation. Journal of Physical Chemistry A, 2013, 117, 11896-11905.	2.5	11
22	Temperature Dependence of the OH^{â€“} + CH₃I Reaction Kinetics. Experimental and Simulation Studies and Atomic-Level Dynamics. Journal of Physical Chemistry A, 2013, 117, 14019-14027.	2.5	40
23	A novel technique for measurement of thermal rate constants and temperature dependences of dissociative recombination: CO2+, CF3+, N2O+, C7H8+, C7H7+, C6H6+, C6H5+, C5H6+, C4H4+, and C3H3+. Journal of Chemical Physics, 2013, 138, 154201.	3.0	22
24	Temperature dependences for the reactions of O2â¯and Oâ¯with N and O atoms in a selected-ion flow tube instrument. Journal of Chemical Physics, 2013, 139, 144302.	3.0	17
25	Exploring the Reactions of Fe⁺ and FeO⁺ with NO and NO₂. Journal of Physical Chemistry A, 2012, 116, 11500-11508.	2.5	20
26	Electron Attachment to C₇F₁₄, Thermal Detachment from C₇F₁₄^{â€“}, the Electron Affinity of C₇F₁₄, and Neutralization of C₇F₁₄^{â€“} by Ar⁺. Journal of Physical Chemistry A, 2012, 116, 10293-10300.	2.5	8
27	Electronic Structure Similarities in Pb_xSb_y^{â€“}and Sn_xBi_y^{â€“}Clusters. Journal of Physical Chemistry A, 2011, 115, 10276-10280.	2.5	12
28	Stability and electronic properties of isoelectronic heteroatomic analogs of. Chemical Physics Letters, 2011, 505, 92-95.	2.6	8
29	Resilient aromaticity in leadâ€“indium clusters. Chemical Physics Letters, 2010, 500, 196-201.	2.6	13
30	Structural Evolution of Triniobium Carbide Clusters: Evidence of Large C_n Chains (n = 3â¯4) in Nb₃C_n^{â¯} (n = 5â¯10) Clusters. Journal of Physical Chemistry A, 2010, 114, 1290-1297.	2.5	6
31	Anion Photoelectron Spectroscopy and First-Principles Study of Pb_xIn_y Clusters. Journal of Physical Chemistry C, 2010, 114, 20907-20916.	3.1	15
32	The applicability of three-dimensional aromaticity in BiSnnâ¯ Zintl analogues. Journal of Chemical Physics, 2010, 133, 134302.	3.0	17
33	Origins of Stability in Mixed Bismuthâ¯Indium Clusters. Journal of Physical Chemistry C, 2010, 114, 15963-15972.	3.1	16
34	Combined Experimental and Theoretical Study of Al_nX (n= 1â¯6; X = As, Sb) Clusters: Evidence of Aromaticity and the Jellium Model. Journal of Physical Chemistry A, 2010, 114, 2045-2052.	2.5	23
35	Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn stretchy="false">(</mml:mo><mml:mo>-</mml:mo><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 92 Td (stretchy="false">) clust. Chemical Physics Letters, 2009, 467, 223-229.	2.6	14
36	Electron delocalization in a non-cyclic all-metal IIIâ€“V cluster. Chemical Physics Letters, 2009, 480, 189-192.	2.6	7

#	Article	IF	Citations
37	Al_nBi Clusters: Transitions Between Aromatic and Jellium Stability. Journal of Physical Chemistry A, 2008, 112, 13316-13325.	2.5	29
38	Effect of Charge and Composition on the Structural Fluxionality and Stability of Nine Atom Tinâ''Bismuth Zintl Analogues. Inorganic Chemistry, 2008, 47, 10953-10958.	4.0	22