Ricardo B Metz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8106597/publications.pdf

Version: 2024-02-01

56	1,612	279798	315739
papers	citations	23	38
		h-index	g-index

58	58	58	944
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structures of M⁺(CH₄)_n (M = Ti, V) Based on Vibrational Spectroscopy and Density Functional Theory. Journal of Physical Chemistry A, 2021, 125, 4143-4151.	2.5	4
2	Bonding, Thermodynamics, and Dissociation Dynamics of NiO⁺ and NiS⁺ Determined by Photofragment Imaging and Theory. Journal of Physical Chemistry A, 2021, 125, 7425-7436.	2.5	4
3	Vibrational Spectroscopy of Intermediates and Câ€“H Activation Products of Sequential Zr⁺ Reactions with CH₄. Journal of Physical Chemistry A, 2020, 124, 8235-8245.	2.5	10
4	Exciton energy transfer reveals spectral signatures of excited states in clusters. Physical Chemistry Chemical Physics, 2020, 22, 14284-14292.	2.8	5
5	Vibrational Spectroscopy of Cr⁺(NH₃)_n (n = 1â€“6) Reveals Coordination and Hydrogen-Bonding Motifs. Journal of Physical Chemistry A, 2019, 123, 4929-4936.	2.5	10
6	Probing Reactivity of Gold Atoms with Acetylene and Ethylene with VUV Photoionization Mass Spectrometry and Ab Initio Studies. Journal of Physical Chemistry A, 2019, 123, 2194-2202.	2.5	10
7	A velocity map imaging mass spectrometer for photofragments of fast ion beams. Review of Scientific Instruments, 2018, 89, 014102.	1.3	23
8	Bond dissociation energy and electronic spectroscopy of Cr+(NH3) and its isotopomers. Journal of Chemical Physics, 2018, 149, 174301.	3.0	4
9	Photofragment Imaging, Spectroscopy, and Theory of MnO⁺. Journal of Physical Chemistry A, 2018, 122, 8047-8053.	2.5	12
10	Photofragment imaging and electronic spectroscopy of Al2+. Journal of Chemical Physics, 2018, 148, 214308.	3.0	14
11	Vibrational Spectroscopy of Fe₃⁺(CH₄)_n (n = 1â€“3) and Fe₄⁺(CH₄)₄. Journal of Physical Chemistry A, 2017, 121, 2132-2137.	2.5	15
12	Vibrational Spectroscopy Reveals Varying Structural Motifs in Cu⁺(CH₄)_n and Ag⁺(CH₄)_n (n = 1â€“6). Journal of Physical Chemistry A, 2015, 119, 9653-9665.	2.5	24
13	Vibrational spectroscopy and theory of Fe₂⁺(CH₄)_n (n = 1â€“3). Physical Chemistry Chemical Physics, 2015, 17, 25700-25704.	2.8	17
14	Near ultraviolet photodissociation spectroscopy of Mn+(H2O) and Mn+(D2O). Journal of Chemical Physics, 2014, 141, 204305.	3.0	9
15	Vibrational Spectroscopy of Co⁺(CH₄)_n and Ni⁺(CH₄)_n (n = 1â€“4). Journal of Physical Chemistry A, 2014, 118, 3253-3265.	2.5	21
16	Vacuum Ultraviolet Photoionization Studies of PtCH₂ and Hâ€Ptâ€CH₃: A Potential Energy Surface for the Pt+CH₄ Reaction. Angewandte Chemie - International Edition, 2013, 52, 888-891.	13.8	23
17	Dissociation Energy and Electronic and Vibrational Spectroscopy of Co⁺(H₂O) and Its Isotopomers. Journal of Physical Chemistry A, 2013, 117, 1254-1264.	2.5	27
18	Photodissociation Studies of the Electronic and Vibrational Spectroscopy of Ni+(H2O). Journal of Physical Chemistry A, 2012, 116, 1344-1352.	2.5	23

#	Article	IF	Citations
19	Microsolvation of Co2+ and Ni2+ by acetonitrile and water: photodissociation dynamics of M2+(CH3CN)n(H2O)m. Physical Chemistry Chemical Physics, 2011, 13, 18347.	2.8	10
20	Electronic and vibrational spectroscopy of intermediates in methane-to-methanol conversion by CoO+. Journal of Chemical Physics, 2011, 135, 084311.	3.0	17
21	Vibrational spectroscopy of intermediates in benzene-to-pheno conversion by FeO⁺. Journal of the American Society for Mass Spectrometry, 2010, 21, 750-757.	2.8	21
22	Comparison of IRMPD, Ar-tagging and IRLAPS for vibrational spectroscopy of Ag+(CH3OH). International Journal of Mass Spectrometry, 2010, 297, 41-45.	1.5	20
23	Vibrational Spectroscopy and Theory of Fe⁺(CH₄)_n (n = 1â^'4). Journal of Physical Chemistry A, 2010, 114, 11322-11329.	2.5	30
24	Vibrational Spectroscopy of Intermediates in Methane-to-Methanol Conversion by FeO+. Journal of Physical Chemistry A, 2010, 114, 5104-5112.	2.5	49
25	Photodissociation Spectroscopy and Dissociation Dynamics of TiO⁺(CO₂). Journal of Physical Chemistry A, 2009, 113, 6253-6259.	2.5	4
26	Vacuum-Ultraviolet Photoionization Measurement and ab Initio Calculation of the Ionization Energy of Gas-Phase SiO₂. Journal of Physical Chemistry A, 2009, 113, 1225-1230.	2.5	21
27	Direct Determination of the Ionization Energies of PtC, PtO, and PtO₂ with VUV Radiation. Journal of Physical Chemistry A, 2008, 112, 9584-9590.	2.5	36
28	Mode selective photodissociation dynamics in V+(OCO). Journal of Chemical Physics, 2008, 128, 024307.	3.0	15
29	Transition State Spectroscopy of Bimolecular Reactions Using Negative Ion Photodetachment. Advances in Chemical Physics, 2007, , 1-61.	0.3	52
30	Electronic and Vibrational Spectroscopy and Vibrationally Mediated Photodissociation of V+(OCO). Journal of Physical Chemistry A, 2006, 110, 5051-5057.	2.5	26
31	Direct determination of the ionization energies of FeO and CuO with VUV radiation. Journal of Chemical Physics, 2005, 123, 114313.	3.0	64
32	Electronic spectroscopy and photodissociation dynamics of Co2+â€“methanol clusters: Co2+(CH3OH)n(n = 4â€“7). Physical Chemistry Chemical Physics, 2005, 7, 814-818.	2.8	21
33	Photofragment spectroscopy of covalently bound transition metal complexes: a window into Câ€“H and Câ€“C bond activation by transition metal ions. International Reviews in Physical Chemistry, 2004, 23, 79-108.	2.3	53
34	Optical spectroscopy and photodissociation dynamics of multiply charged ions. International Journal of Mass Spectrometry, 2004, 235, 131-143.	1.5	36
35	Photofragment Spectroscopy of Ï€ Complexes:Â Au+(C2H4) and Pt+(C2H4). Journal of Physical Chemistry A, 2004, 108, 6996-7002.	2.5	40
36	Energies and Wave Functions for Several One-Dimensional Potentials. Journal of Chemical Education, 2004, 81, 157.	2.3	4

#	Article	IF	Citations
37	Salt-Bridge Transition State for the Charge Separation Co(H2O)2+4 â†' CoOH(H2O)+2 + H3O+. ChemInform, 2003, 34, no.	0.0	0
38	Electronic spectroscopy of predissociative states of platinum oxide cation. Chemical Physics Letters, 2003, 376, 588-594.	2.6	14
39	Salt-Bridge Transition State for the Charge Separation Co(H2O)42+ â†' CoOH(H2O)2+ + H3O+. Journal of Physical Chemistry A, 2003, 107, 1760-1762.	2.5	21
40	The low-lying electronic states of FeO+: Rotational analysis of the resonance enhanced photodissociation spectra of the 6Î7/2â†Xâ€Š6Î£+ system. Journal of Chemical Physics, 2003, 119, 10194-10201.	3.0	36
41	Electronic spectroscopy of intermediates involved in the conversion of methane to methanol by FeO+. Journal of Chemical Physics, 2002, 116, 4071-4078.	3.0	40
42	Electronic Spectroscopy and Photodissociation Dynamics of Hydrated Co2+Clusters:Â Co2+(H2O)n(n=) Tj ETQq0 0 0 rgBT /Overlock 10	2.5	58
43	Photodissociation spectra of transition metal sulfides: spinâ€"orbit structure in charge transfer bands of FeS+ and NiS+. Chemical Physics Letters, 2001, 342, 75-84.	2.6	12
44	Gas-phase photodissociation of AuCH2+: the dissociation threshold of jet-cooled and rotationally thermalized ions. Chemical Physics Letters, 2000, 318, 466-470.	2.6	44
45	Probing the new bond in the vibrationally controlled bimolecular reaction of O with HOD(4Î½OH). Journal of Chemical Physics, 2000, 113, 7982-7987.	3.0	22
46	Photodissociation Dynamics of Hydrated Ni2+ Clusters:â€‰ Ni2+(H2O)n (n = 4â^'7). Journal of Physical Chemistry A, 2000, 104, 8155-8159.	2.5	44
47	Photofragment Spectroscopy and Dynamics of NiOH+and NiOH+(H2O). Journal of Physical Chemistry A, 2000, 104, 9901-9905.	2.5	22
48	Photofragment Spectroscopy of FeCH2+, CoCH2+, and NiCH2+ near the M+â^'CH2 Dissociation Threshold. Journal of Physical Chemistry A, 2000, 104, 2020-2024.	2.5	29
49	Vibrationally resolved photofragment spectroscopy of FeO+. Journal of Chemical Physics, 1999, 111, 1433-1437.	3.0	67
50	Vibrationally mediated photodissociation of isocyanic acid (HNCO): Preferential Nâ€"H bond fission by excitation of the reaction coordinate. Journal of Chemical Physics, 1996, 105, 6293-6303.	3.0	65
51	Reactions of O, H, and Cl atoms with highly vibrationally excited HCN: Using product states to determine mechanisms. Journal of Chemical Physics, 1996, 104, 4490-4501.	3.0	49
52	Mode- and Bond-Selective Reactions of Chlorine Atoms with Highly Vibrationally Excited H2O and HOD. The Journal of Physical Chemistry, 1995, 99, 13748-13754.	2.9	80
53	The reaction of chlorine atoms withhighly vibrationally excited HCN. Chemical Physics Letters, 1994, 221, 347-352.	2.6	39
54	Selectively breaking either bond in the bimolecular reaction of HOD with hydrogen atoms. Journal of Chemical Physics, 1993, 99, 1744-1751.	3.0	121

#	Article	IF	Citations
55	Proton affinities of diacetylene, cyanoacetylene, and cyanogen. Journal of Chemical Physics, 1987, 86, 2334-2342.	3.0	34
56	Consecutive ion/molecule condensation reactions and photodissociation mechanisms of condensation ions in polyacetylenic compounds. International Journal of Mass Spectrometry and Ion Processes, 1985, 65, 181-196.	1.8	15