

Andreas Mauracher

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

1,166
citations

21
h-index

30
g-index

73
ext. papers

1,267
ext. citations

4.5
avg, IF

3.89
L-index

#	Paper	IF	Citations
73	Cold physics and chemistry: Collisions, ionization and reactions inside helium nanodroplets close to zero K. <i>Physics Reports</i> , 2018 , 751, 1-90	27.7	83
72	Atomically resolved phase transition of fullerene cations solvated in helium droplets. <i>Nature Communications</i> , 2016 , 7, 13550	17.4	68
71	Adsorption of hydrogen on neutral and charged fullerene: experiment and theory. <i>Journal of Chemical Physics</i> , 2013 , 138, 074311	3.9	49
70	Detection of Negative Charge Carriers in Superfluid Helium Droplets: The Metastable Anions He and He. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2444-2449	6.4	48
69	Combined experimental and theoretical study on the nature and the metastable decay pathways of the amino acid ion fragment [M-H] ⁻ . <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8057-9	16.4	46
68	Ion-molecule reactions in helium nanodroplets doped with C60 and water clusters. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8940-3	16.4	42
67	Dissociative electron attachment to gas phase glycine: exploring the decomposition pathways by mass separation of isobaric fragment anions. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5680-5	3.6	41
66	Dissociative electron attachment to DNA bases near absolute zero temperature: freezing dissociation intermediates. <i>ChemPhysChem</i> , 2008 , 9, 1387-9	3.2	40
65	On the size of ions solvated in helium clusters. <i>Chemistry - A European Journal</i> , 2009 , 15, 7101-8	4.8	32
64	Inelastic electron interaction with chloroform clusters embedded in helium droplets. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5065-71	16.4	32
63	Sequential penning ionization: harvesting energy with ions. <i>Physical Review Letters</i> , 2010 , 105, 243402	7.4	30
62	Electron attachment to trinitrotoluene (TNT) embedded in He droplets: complete freezing of dissociation intermediates in an extended range of electron energies. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8240-3	3.6	29
61	Adsorption of Polar and Nonpolar Molecules on Isolated Cationic C ₆₀ , C ₇₀ , and Their Aggregates. <i>ChemPlusChem</i> , 2013 , 78, 910-920	2.8	27
60	Probing di-nitrobenzene by low energy electrons. <i>International Journal of Mass Spectrometry</i> , 2007 , 266, 138-148	1.9	27
59	Dissociative electron attachment to nitromethane. <i>International Journal of Mass Spectrometry</i> , 2008 , 271, 15-21	1.9	26
58	Anionic Hydrogen Cluster Ions as a New Form of Condensed Hydrogen. <i>Physical Review Letters</i> , 2016 , 117, 273001	7.4	26
57	Ionization of doped helium nanodroplets: complexes of C60 with water clusters. <i>Journal of Chemical Physics</i> , 2010 , 132, 234307	3.9	24

56	Formation of even-numbered hydrogen cluster cations in ultracold helium droplets. <i>Journal of Chemical Physics</i> , 2008 , 129, 224306	3.9	23
55	Detailed dissociative electron attachment studies on the amino acid proline. <i>International Journal of Mass Spectrometry</i> , 2008 , 277, 274-278	1.9	23
54	On the properties of charged and neutral, atomic and molecular helium species in helium nanodroplets: interpreting recent experiments. <i>Molecular Physics</i> , 2014 , 112, 794-804	1.7	21
53	Methane Adsorption on Graphitic Nanostructures: Every Molecule Counts. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2598-2603	6.4	21
52	Bond dissociation of the dipeptide dialanine and its derivative alanine anhydride induced by low energy electrons. <i>Journal of Chemical Physics</i> , 2011 , 134, 054305	3.9	21
51	Fragmentation of metastable SF ₆ (-*) ions with microsecond lifetimes in competition with autodetachment. <i>Journal of Chemical Physics</i> , 2008 , 128, 104304	3.9	21
50	Metastable dissociation of anions formed by electron attachment. <i>ChemPhysChem</i> , 2008 , 9, 607-11	3.2	19
49	Methane adsorption on aggregates of fullerenes: site-selective storage capacities and adsorption energies. <i>ChemSusChem</i> , 2013 , 6, 1235-44	8.3	18
48	Identification of isomers of nitrotoluene via free electron attachment. <i>Analytical Chemistry</i> , 2007 , 79, 6585-91	7.8	18
47	Formation of dianions in helium nanodroplets. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13794-7	16.4	17
46	On the formation of (anionic) excited helium dimers in helium droplets. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 6642-7	2.8	15
45	Metastable anions of dinitrobenzene: resonances for electron attachment and kinetic energy release. <i>Journal of Chemical Physics</i> , 2010 , 133, 244302	3.9	15
44	Probing royal demolition explosive (1,3,5-trinitro-1,3,5-triazocyclohexane) by low-energy electrons: Strong dissociative electron attachment near 0 eV. <i>Journal of Chemical Physics</i> , 2009 , 131, 144304	3.9	15
43	Electron impact ionization of CCl ₄ and SF ₆ embedded in superfluid helium droplets. <i>International Journal of Mass Spectrometry</i> , 2009 , 280, 26-31	1.9	15
42	Dissociative electron attachment and dipolar dissociation in ethylene. <i>International Journal of Mass Spectrometry</i> , 2014 , 365-366, 356-364	1.9	14
41	Building Carbon Bridges on and between Fullerenes in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1440-5	6.4	14
40	A precedent of van-der-Waals interactions outmatching Coulomb explosion. <i>Carbon</i> , 2016 , 109, 843-850	10.4	14
39	The interaction of He(-) with fullerenes. <i>Journal of Chemical Physics</i> , 2015 , 142, 104306	3.9	13

38	Ordered phases of ethylene adsorbed on charged fullerenes and their aggregates. <i>Carbon</i> , 2014 , 69, 206-220	10.4	12
37	Electron-driven ionization of large methanol clusters in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3577-82	3.6	12
36	Absolute partial cross sections and kinetic energy analysis for the electron impact ionization of ethylene. <i>International Journal of Mass Spectrometry</i> , 2009 , 280, 65-71	1.9	12
35	Dissociative electron attachment to the nitroamine HMX (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine). <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 744-52	3.5	11
34	Ion-Molecule Reactions in Helium Nanodroplets Doped with C60 and Water Clusters. <i>Angewandte Chemie</i> , 2009 , 121, 9102-9105	3.6	10
33	Electron attachment studies to musk ketone and high mass resolution anionic isobaric fragment detection. <i>International Journal of Mass Spectrometry</i> , 2008 , 277, 123-129	1.9	10
32	Dissociative electron attachment to pentaerythritol tetranitrate: significant fragmentation near 0 eV. <i>Journal of Chemical Physics</i> , 2010 , 132, 134305	3.9	9
31	Investigations of electron attachment to the perfluorocarbon molecules <i>c</i> -C4F8, 2-C4F8, 1,3 C4F6, and <i>c</i> -C5F8. <i>International Journal of Mass Spectrometry</i> , 2008 , 277, 41-51	1.9	9
30	Temperature effects on the dissociative electron attachment to dichlorobenzene isomers. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 14923-9	2.8	7
29	Total and partial electron impact ionization cross sections of fusion-relevant diatomic molecules. <i>Journal of Chemical Physics</i> , 2019 , 150, 024306	3.9	7
28	Complete ligand loss in electron ionization of the weakly bound organometallic tungsten hexacarbonyl dimer. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 9893-6	3.6	6
27	Decorating (C) _n , n=1-3, with CO at low temperatures: Sterically enhanced physisorption. <i>International Journal of Mass Spectrometry</i> , 2013 , 354-355, 271-274	1.9	6
26	Electron impact ionisation cross sections of iron oxides. <i>European Physical Journal D</i> , 2017 , 71, 1	1.3	6
25	Free electron attachment to the chloromethane CHCl ₃ . <i>International Journal of Mass Spectrometry</i> , 2007 , 265, 139-145	1.9	6
24	Doubly charged coronene clusters-Much smaller than previously observed. <i>Journal of Chemical Physics</i> , 2018 , 148, 174303	3.9	5
23	Permeation of low-Z atoms through carbon sheets: Density functional theory study on energy barriers and deformation effects. <i>AIP Advances</i> , 2013 , 3, 122104	1.5	5
22	Electron Impact Ionization/Dissociation of Molecules: Production of Energetic Radical Ions and Anions. <i>Journal of Physics: Conference Series</i> , 2007 , 86, 012003	0.3	5
21	Dissociative electron attachment to the volatile anaesthetics enflurane and isoflurane and the chlorinated ethanes pentachloroethane and hexachloroethane. <i>International Journal of Mass Spectrometry</i> , 2015 , 379, 179-186	1.9	4

20	On the impact of multi-reference character of small transition metal compounds on their bond dissociation energies. <i>Journal of Chemical Physics</i> , 2020 , 152, 114104	3.9	4
19	Temperature dependence of dissociative electron attachment to bromo-chlorotoluene isomers: Competition between detachment of Cl and Br. <i>Journal of Chemical Physics</i> , 2018 , 148, 074301	3.9	4
18	Electron impact ionisation cross sections of - and -diamminedichloridoplatinum(II) and its hydrolysis products. <i>Molecular Physics</i> , 2019 , 117, 2233-2240	1.7	4
17	Low-energy electron interactions with dimethyl disulphide. <i>Chemical Physics Letters</i> , 2014 , 605-606, 71-76.5	3.5	3
16	Desorption of small ionic fragments from oligonucleotides induced by low energy carbon ions. <i>European Physical Journal D</i> , 2010 , 60, 59-63	1.3	3
15	Electron attachment to 2-nitro-m-xylene. <i>International Journal of Mass Spectrometry</i> , 2010 , 289, 128-137.1.9	1.9	3
14	Relative partial cross sections for anions formed upon electron attachment to nitrotoluene. <i>International Journal of Mass Spectrometry</i> , 2008 , 271, 36-44	1.9	3
13	Dissociative electron attachment to unstable molecules and slow fragmentation of metastable molecular anions. <i>Journal of Physics: Conference Series</i> , 2007 , 88, 012029	0.3	3
12	Dissociative electron attachment to 2-chlorotoluene: Unusual temperature effects for the formation of Cl. <i>Chemical Physics Letters</i> , 2019 , 730, 527-530	2.5	2
11	Assessment of Fractal Characteristics of Locomotor Activity of Geriatric In-Patients With Alzheimer's Dementia. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 272	5.3	2
10	Site selective cleavage of purine derivatives by capture of low energy electrons. <i>Physica Scripta</i> , 2008 , 78, 058101	2.6	2
9	Dissociative electron attachment to nitroaromatic compounds [resonances as fingerprints for isomers. <i>Journal of Physics: Conference Series</i> , 2007 , 88, 012075	0.3	2
8	CALCULATION OF PROCESSES RELEVANT TO REACTIONS BETWEEN NUCLEIC ACIDS AND FREE ELECTRONS. <i>Chemical Engineering Communications</i> , 2008 , 195, 1371-1381	2.2	1
7	Combined Experimental and Theoretical Study on the Nature and the Metastable Decay Pathways of the Amino Acid Ion Fragment [M ⁺]. <i>Angewandte Chemie</i> , 2007 , 119, 8203-8205	3.6	1
6	Dependence of Electronic Properties of DNA Single Strands on Size and Environment. <i>ACS Omega</i> , 2019 , 4, 10791-10798	3.9	0
5	Comparative study of electronic-structure methods for platinum-containing molecules: bond lengths and bond dissociation energies. <i>European Physical Journal D</i> , 2019 , 73, 1	1.3	0
4	Electron impact ionisation cross sections of fluoro-substituted nucleosides. <i>European Physical Journal D</i> , 2019 , 73, 1	1.3	0
3	Formation of Dianions in Helium Nanodroplets. <i>Angewandte Chemie</i> , 2014 , 126, 14014-14017	3.6	

2 Energy harvesting in doped helium nano-droplets. *Journal of Physics: Conference Series*, **2012**, 388, 132003

1 Dissociative electron attachment to fluorinated nitrobenzenes. *International Journal of Mass Spectrometry*, **2022**, 471, 116731 1.9