

Olof Echt

List of Publications by Year in Descending Order

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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.

96
papers

3,806
citations

29
h-index

60
g-index

99
ext. papers

3,972
ext. citations

4.2
avg, IF

4.7
L-index

#	Paper	IF	Citations
96	Splashing of Large Helium Nanodroplets upon Surface Collisions.. <i>Physical Review Letters</i> , 2021 , 127, 263401	7.4	4
95	Adsorption of helium on a charged propeller molecule: hexaphenylbenzene. <i>European Physical Journal D</i> , 2021 , 75, 1	1.3	0
94	Electronic transitions in Rb ₂ ⁺ dimers solvated in helium. <i>Theoretical Chemistry Accounts</i> , 2021 , 140, 1	1.9	2
93	SF: Stabilizing Transient Ions in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4112-4117	6.4	1
92	On the stability of neon cluster ions [Evidence for isomeric structures. <i>International Journal of Mass Spectrometry</i> , 2021 , 462, 116528	1.9	1
91	Electron attachment and electron ionization of helium droplets containing clusters of C ₆₀ and formic acid. <i>International Journal of Mass Spectrometry</i> , 2020 , 450, 116293	1.9	3
90	Proton transfer at subkelvin temperatures. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 28165-28172	3.6	7
89	Isotope enrichment in neon clusters grown in helium nanodroplets. <i>Journal of Chemical Physics</i> , 2020 , 153, 164305	3.9	5
88	Solvation of ions in helium. <i>International Reviews in Physical Chemistry</i> , 2020 , 39, 465-516	7	21
87	Charged Clusters of C and Au or Cu: Evidence for Stable Sizes and Specific Dissociation Channels. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 4599-4608	2.8	2
86	Electron Attachment and Electron Ionization of Formic Acid Clusters Embedded in Helium Nanodroplets. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 787-795	3.5	6
85	Roadmap on photonic, electronic and atomic collision physics: III. Heavy particles: with zero to relativistic speeds. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 171003	1.3	12
84	Solvation of Silver Ions in Noble Gases He, Ne, Ar, Kr, and Xe. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10426-10436	2.8	7
83	Atomic Gold Ions Clustered with Noble Gases: Helium, Neon, Argon, Krypton, and Xenon. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9505-9513	2.8	7
82	Doubly charged coronene clusters-Much smaller than previously observed. <i>Journal of Chemical Physics</i> , 2018 , 148, 174303	3.9	5
81	Helium nanodroplets doped with copper and water. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	5
80	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

79	Positively and Negatively Charged Cesium and (C) Cs Cluster Ions. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10817-10823	3.8	8
78	On enhanced hydrogen adsorption on alkali (cesium) doped C60 and effects of the quantum nature of the H2 molecule on physisorption energies. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3078-3086	6.7	27
77	Cs+ Solvated in Hydrogen Evidence for Several Distinct Solvation Shells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10887-10892	3.8	10
76	The structure of coronene cluster ions inferred from H uptake in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27968-27973	3.6	11
75	Preface to the Special Issue ISPIC XVIII: International Symposium on Small Particles and Inorganic Clusters 2016 <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10629-10631	3.8	
74	Nitrogen Cluster Anions. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10632-10637	3.8	6
73	Fission of multiply charged alkali clusters in helium droplets - approaching the Rayleigh limit. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10623-9	3.6	8
72	A concept for a soft gamma-ray concentrator using thin-film multilayer structures 2016 ,		1
71	Adsorption of sodium and cesium on aggregates of C60. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	7
70	Adsorption of helium on isolated C60 and C70 anions. <i>Molecular Physics</i> , 2015 , 113, 2191-2196	1.7	9
69	A soft gamma-ray concentrator using thin-film multilayer structures 2015 ,		1
68	Helium Droplets Doped with Sulfur and C. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10919-10924	3.8	7
67	Measuring the Heat Capacity of Large Isolated Molecules via Gas-Phase Collisions: C60. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11233-11237	3.8	0
66	Doubly charged CO clusters formed by ionization of doped helium nanodroplets. <i>International Journal of Mass Spectrometry</i> , 2014 , 365-366, 200-205	1.9	6
65	On the size and structure of helium snowballs formed around charged atoms and clusters of noble gases. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 8050-9	2.8	34
64	On subthreshold ionization of helium droplets, ejection of He(+), and the role of anions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22466-70	3.6	13
63	Ordered phases of ethylene adsorbed on charged fullerenes and their aggregates. <i>Carbon</i> , 2014 , 69, 206-220	10.4	12
62	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

61	On the stability of cationic complexes of neon with helium--solving an experimental discrepancy. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16599-604	3.6	6
60	Cationic complexes of hydrogen with helium. <i>ChemPhysChem</i> , 2013 , 14, 227-32	3.2	22
59	Methane adsorption on aggregates of fullerenes: site-selective storage capacities and adsorption energies. <i>ChemSusChem</i> , 2013 , 6, 1235-44	8.3	18
58	Methane Adsorption on Graphitic Nanostructures: Every Molecule Counts. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2598-2603	6.4	21
57	Structures, energetics, and dynamics of helium adsorbed on isolated fullerene ions. <i>Physical Review Letters</i> , 2012 , 108, 076101	7.4	60
56	Solvation of Na ⁺ , K ⁺ , and their dimers in helium. <i>Chemistry - A European Journal</i> , 2012 , 18, 4411-8	4.8	44
55	High-resolution mass spectrometric study of pure helium droplets, and droplets doped with krypton. <i>European Physical Journal D</i> , 2011 , 63, 209-214	1.3	60
54	Ion-molecule reactions of ammonia clusters with C60 aggregates embedded in helium droplets. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1092-8	3.6	22
53	Experimental evidence for the existence of an electronically excited state of the proposed dihydrogen radical cation He-H-H-He ⁺ . <i>Chemistry - A European Journal</i> , 2009 , 15, 4190-4	4.8	6
52	On the size of ions solvated in helium clusters. <i>Chemistry - A European Journal</i> , 2009 , 15, 7101-8	4.8	32
51	Ion-Molecule Reactions in Helium Nanodroplets Doped with C60 and Water Clusters. <i>Angewandte Chemie</i> , 2009 , 121, 9102-9105	3.6	10
50	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
49	Electron attachment to doped helium droplets: C60 ⁻ , (C60) ₂ ⁻ , and C60D2O ⁻ anions. <i>European Physical Journal D</i> , 2009 , 52, 91-94	1.3	8
48	Argon clusters embedded in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9791-7	3.6	29
47	Ultracold water cluster anions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5573-8	16.4	52
46	Metastable dissociation of anions formed by electron attachment. <i>ChemPhysChem</i> , 2008 , 9, 607-11	3.2	19
45	Dissociative electron attachment to DNA bases near absolute zero temperature: freezing dissociation intermediates. <i>ChemPhysChem</i> , 2008 , 9, 1387-9	3.2	40
44	On the role of the II(1/2g) state in spontaneous dissociation of krypton and xenon dimer ions. <i>Chemical Physics Letters</i> , 2007 , 437, 183-188	2.5	11

43	Electron impact ionization of thymine clusters embedded in superfluid helium droplets. <i>European Physical Journal D</i> , 2007 , 43, 117-120	1.3	19
42	Isotope effects in the metastable decay of Ne ₂ ⁺ . <i>European Physical Journal D</i> , 2007 , 43, 77-80	1.3	6
41	Electron attachment to higher fullerenes and to Sc ₃ N@C ₈₀ . <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8451-6	2.8	25
40	Metastable dissociation and kinetic energy release of helium clusters upon electron impact ionization. <i>International Journal of Mass Spectrometry</i> , 2006 , 252, 166-172	1.9	14
39	Ne ₂ +[[II (1/2)u]: radiative decay and electronic predissociation. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1043-8	3.6	8
38	Ionization energies of argon clusters: a combined experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2005 , 123, 084313	3.9	14
37	Vibrational Energy Dependence of the Triplet Lifetime in Isolated, Photoexcited C ₆₀ . <i>Journal of Physical Chemistry A</i> , 2004 , 108, 6944-6952	2.8	5
36	Mass spectrometric study of K ⁺ + C ₆₀ collisions. <i>International Journal of Mass Spectrometry</i> , 2003 , 223-224, 695-701	1.9	9
35	Multiply charged clusters. <i>Comptes Rendus Physique</i> , 2002 , 3, 353-364	1.4	25
34	Collisional formation and dissociation of Na@C ₆₀ ⁺ . <i>Chemical Physics Letters</i> , 2002 , 353, 11-18	2.5	8
33	Binding energy of C ₆₀ ⁺ revisited [What is the problem?]. <i>Chemical Physics Letters</i> , 2001 , 348, 194-202	2.5	45
32	COLLISIONAL FORMATION OF METALLOFULLERENES 2000 ,		2
31	Hansen and Echt Reply:. <i>Physical Review Letters</i> , 1999 , 82, 460-460	7.4	4
30	Efficiency of Thermionic Emission from C ₆₀ . <i>Journal of Physical Chemistry A</i> , 1998 , 102, 2533-2539	2.8	28
29	Thermionic Emission and Fragmentation of C ₆₀ . <i>Physical Review Letters</i> , 1997 , 78, 2337-2340	7.4	111
28	Photoexcited C ₆₀ : fragmentation and delayed ionization. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997 , 40, 355-360		10
27	Appearance and ionization energies of multiply-charged C ₇₀ parent ions produced by electron impact ionization. <i>Chemical Physics Letters</i> , 1997 , 264, 149-156	2.5	67
26	Photoexcited C ₆₀ : fragmentation and delayed ionization 1997 , 355-360		

25	Direct Evidence for the Sequential Decay $C60z^{+} \rightarrow C58z^{+} \rightarrow C56z^{+}$. <i>Physical Review Letters</i> , 1996 , 77, 2654-2657	7.4	56
24	Convergence of Cluster Properties Towards Bulk Behavior: How Large is Large? 1996 , 221-239		4
23	Thermionic emission from free, photoexcited tungsten clusters. <i>Journal of Chemical Physics</i> , 1993 , 99, 9670-9680	3.9	48
22	Delayed electron emission from higher fullerenes C_n , $n \geq 96$, following excitation at 1064 nm. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 7088-7091		19
21	Thermionic emission from fullerenes. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993 , 26, 288-290		13
20	THERMIONIC EMISSION FROM FULLERENES. <i>International Journal of Modern Physics B</i> , 1992 , 06, 3881-3891		12
19	Thermionic Emission from Hot Tungsten Clusters. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 206, 259		10
18	Mean-field quantization of several hundred electrons in sodium metal clusters. <i>Physical Review Letters</i> , 1990 , 65, 1627-1630	7.4	108
17	Magic numbers in mass spectra of large van der Waals clusters. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990 , 86, 2411		43
16	Mass spectrometric evidence for icosahedral structure in large rare gas clusters: Ar, Kr, Xe. <i>Journal of Chemical Physics</i> , 1989 , 91, 5940-5952	3.9	165
15	The Physics of Small Clusters. <i>Europhysics News</i> , 1989 , 20, 151-154	0.2	3
14	Dissociation channels of multiply charged van der Waals clusters. <i>Physical Review A</i> , 1988 , 38, 3236-3248	2.6	94
13	Electron attachment to water clusters under collision-free conditions. <i>The Journal of Physical Chemistry</i> , 1987 , 91, 2601-2607		131
12	Experiments on clusters. <i>Hyperfine Interactions</i> , 1987 , 38, 685-698	0.8	2
11	Multiply Charged Clusters 1987 , 623-638		11
10	Formation of long-lived CO_2^- , N_2O^- and their dimer anions, by electron attachment to van der waals clusters. <i>Chemical Physics Letters</i> , 1986 , 126, 225-231	2.5	124
9	Trapping of low energy electrons at preexisting, cold water clusters. <i>Journal of Chemical Physics</i> , 1986 , 85, 636-637	3.9	108
8	Dissociation channels for multiply charged clusters. <i>Physical Review Letters</i> , 1986 , 56, 1551-1554	7.4	86

7	Time-dependent size distribution of xenon-cluster ions. <i>Physical Review A</i> , 1986 , 33, 768-770	2.6	75
6	Multiphoton ionization of ammonia clusters and the dissociation dynamics of protonated cluster ions. <i>Journal of Chemical Physics</i> , 1985 , 82, 4076-4085	3.9	130
5	Evolution of magic numbers in mass spectra of water clusters. <i>Chemical Physics Letters</i> , 1984 , 108, 401-407	5.5	142
4	The effect of ionization on magic numbers of rare-gas clusters. <i>Chemical Physics Letters</i> , 1984 , 109, 71-75	5.5	96
3	Microcluster Growth: Transition from Successive Monomer Addition to Coagulation. <i>Physical Review Letters</i> , 1982 , 49, 1857-1860	7.4	98
2	Evidence for Coulomb Explosion of Doubly Charged Microclusters. <i>Physical Review Letters</i> , 1981 , 47, 160-163	7.4	290
1	Magic Numbers for Sphere Packings: Experimental Verification in Free Xenon Clusters. <i>Physical Review Letters</i> , 1981 , 47, 1121-1124	7.4	677