

# Olof Echt

## List of Publications by Citations

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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	Magic Numbers for Sphere Packings: Experimental Verification in Free Xenon Clusters. <i>Physical Review Letters</i> , <b>1981</b> , 47, 1121-1124	7.4	677
95	Evidence for Coulomb Explosion of Doubly Charged Microclusters. <i>Physical Review Letters</i> , <b>1981</b> , 47, 160-163	7.4	290
94	Mass spectrometric evidence for icosahedral structure in large rare gas clusters: Ar, Kr, Xe. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 5940-5952	3.9	165
93	Evolution of magic numbers in mass spectra of water clusters. <i>Chemical Physics Letters</i> , <b>1984</b> , 108, 401-407	3.5	142
92	Electron attachment to water clusters under collision-free conditions. <i>The Journal of Physical Chemistry</i> , <b>1987</b> , 91, 2601-2607	2.5	131
91	Multiphoton ionization of ammonia clusters and the dissociation dynamics of protonated cluster ions. <i>Journal of Chemical Physics</i> , <b>1985</b> , 82, 4076-4085	3.9	130
90	Formation of long-lived CO <sub>2</sub> <sup>-</sup> , N <sub>2</sub> O <sub>2</sub> <sup>-</sup> and their dimer anions, by electron attachment to van der Waals clusters. <i>Chemical Physics Letters</i> , <b>1986</b> , 126, 225-231	2.5	124
89	Thermionic Emission and Fragmentation of C <sub>60</sub> . <i>Physical Review Letters</i> , <b>1997</b> , 78, 2337-2340	7.4	111
88	Mean-field quantization of several hundred electrons in sodium metal clusters. <i>Physical Review Letters</i> , <b>1990</b> , 65, 1627-1630	7.4	108
87	Trapping of low energy electrons at preexisting, cold water clusters. <i>Journal of Chemical Physics</i> , <b>1986</b> , 85, 636-637	3.9	108
86	Microcluster Growth: Transition from Successive Monomer Addition to Coagulation. <i>Physical Review Letters</i> , <b>1982</b> , 49, 1857-1860	7.4	98
85	The effect of ionization on magic numbers of rare-gas clusters. <i>Chemical Physics Letters</i> , <b>1984</b> , 109, 71-75	3.5	96
84	Dissociation channels of multiply charged van der Waals clusters. <i>Physical Review A</i> , <b>1988</b> , 38, 3236-3248	2.6	94
83	Dissociation channels for multiply charged clusters. <i>Physical Review Letters</i> , <b>1986</b> , 56, 1551-1554	7.4	86
82	Cold physics and chemistry: Collisions, ionization and reactions inside helium nanodroplets close to zero K. <i>Physics Reports</i> , <b>2018</b> , 751, 1-90	27.7	83
81	Time-dependent size distribution of xenon-cluster ions. <i>Physical Review A</i> , <b>1986</b> , 33, 768-770	2.6	75
80	Appearance and ionization energies of multiply-charged C <sub>70</sub> parent ions produced by electron impact ionization. <i>Chemical Physics Letters</i> , <b>1997</b> , 264, 149-156	2.5	67

79	Structures, energetics, and dynamics of helium adsorbed on isolated fullerene ions. <i>Physical Review Letters</i> , <b>2012</b> , 108, 076101	7.4	60
78	High-resolution mass spectrometric study of pure helium droplets, and droplets doped with krypton. <i>European Physical Journal D</i> , <b>2011</b> , 63, 209-214	1.3	60
77	Direct Evidence for the Sequential Decay $C_{60}^{z+} \rightarrow C_{58}^{z+} \rightarrow C_{56}^{z+} \rightarrow \dots$ . <i>Physical Review Letters</i> , <b>1996</b> , 77, 2654-2657	7.4	56
76	Ultracold water cluster anions. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5573-8	16.4	52
75	Thermionic emission from free, photoexcited tungsten clusters. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 9670-9680	3.9	48
74	Binding energy of $C_{60}^+$ revisited [What is the problem?]. <i>Chemical Physics Letters</i> , <b>2001</b> , 348, 194-202	2.5	45
73	Solvation of $Na^+$ , $K^+$ , and their dimers in helium. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 4411-8	4.8	44
72	Magic numbers in mass spectra of large van der Waals clusters. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1990</b> , 86, 2411		43
71	Ion-molecule reactions in helium nanodroplets doped with $C_{60}$ and water clusters. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 8940-3	16.4	42
70	Dissociative electron attachment to DNA bases near absolute zero temperature: freezing dissociation intermediates. <i>ChemPhysChem</i> , <b>2008</b> , 9, 1387-9	3.2	40
69	On the size and structure of helium snowballs formed around charged atoms and clusters of noble gases. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 8050-9	2.8	34
68	On the size of ions solvated in helium clusters. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 7101-8	4.8	32
67	Argon clusters embedded in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 9791-7	3.6	29
66	Efficiency of Thermionic Emission from $C_{60}$ . <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 2533-2539	2.8	28
65	On enhanced hydrogen adsorption on alkali (cesium) doped $C_{60}$ and effects of the quantum nature of the $H_2$ molecule on physisorption energies. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3078-3086	6.7	27
64	Adsorption of Polar and Nonpolar Molecules on Isolated Cationic $C$ , $C_n$ , and Their Aggregates. <i>ChemPlusChem</i> , <b>2013</b> , 78, 910-920	2.8	27
63	Electron attachment to higher fullerenes and to $Sc_3N@C_{80}$ . <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 8451-6	2.8	25
62	Multiply charged clusters. <i>Comptes Rendus Physique</i> , <b>2002</b> , 3, 353-364	1.4	25

61	Cationic complexes of hydrogen with helium. <i>ChemPhysChem</i> , <b>2013</b> , 14, 227-32	3.2	22
60	Ion-molecule reactions of ammonia clusters with C60 aggregates embedded in helium droplets. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 1092-8	3.6	22
59	Methane Adsorption on Graphitic Nanostructures: Every Molecule Counts. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2598-2603	6.4	21
58	Solvation of ions in helium. <i>International Reviews in Physical Chemistry</i> , <b>2020</b> , 39, 465-516	7	21
57	Electron impact ionization of thymine clusters embedded in superfluid helium droplets. <i>European Physical Journal D</i> , <b>2007</b> , 43, 117-120	1.3	19
56	Metastable dissociation of anions formed by electron attachment. <i>ChemPhysChem</i> , <b>2008</b> , 9, 607-11	3.2	19
55	Delayed electron emission from higher fullerenes C <sub>n</sub> , n .ltoreq. 96, following excitation at 1064 nm. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 7088-7091		19
54	Methane adsorption on aggregates of fullerenes: site-selective storage capacities and adsorption energies. <i>ChemSusChem</i> , <b>2013</b> , 6, 1235-44	8.3	18
53	Ionization energies of argon clusters: a combined experimental and theoretical study. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 084313	3.9	14
52	Metastable dissociation and kinetic energy release of helium clusters upon electron impact ionization. <i>International Journal of Mass Spectrometry</i> , <b>2006</b> , 252, 166-172	1.9	14
51	On subthreshold ionization of helium droplets, ejection of He(+), and the role of anions. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 22466-70	3.6	13
50	Thermionic emission from fullerenes. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , <b>1993</b> , 26, 288-290		13
49	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> , <b>2019</b> , 52, 171003	1.3	12
48	Ordered phases of ethylene adsorbed on charged fullerenes and their aggregates. <i>Carbon</i> , <b>2014</b> , 69, 206-220	10.4	12
47	THERMIONIC EMISSION FROM FULLERENES. <i>International Journal of Modern Physics B</i> , <b>1992</b> , 06, 3881-3891		12
46	The structure of coronene cluster ions inferred from H uptake in the gas phase. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 27968-27973	3.6	11
45	On the role of the II(1/2g) state in spontaneous dissociation of krypton and xenon dimer ions. <i>Chemical Physics Letters</i> , <b>2007</b> , 437, 183-188	2.5	11
44	Multiply Charged Clusters <b>1987</b> , 623-638		11

43	Cs <sup>+</sup> Solvated in Hydrogen Evidence for Several Distinct Solvation Shells. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10887-10892	3.8	10
42	Ion-Molecule Reactions in Helium Nanodroplets Doped with C60 and Water Clusters. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 9102-9105	3.6	10
41	Photoexcited C60: fragmentation and delayed ionization. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , <b>1997</b> , 40, 355-360		10
40	Thermionic Emission from Hot Tungsten Clusters. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 206, 259		10
39	Adsorption of helium on isolated C60 and C70 anions. <i>Molecular Physics</i> , <b>2015</b> , 113, 2191-2196	1.7	9
38	Mass spectrometric study of K <sup>+</sup> + C60 collisions. <i>International Journal of Mass Spectrometry</i> , <b>2003</b> , 223-224, 695-701	1.9	9
37	Positively and Negatively Charged Cesium and (C) Cs Cluster Ions. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10817-10823	3.8	8
36	Fission of multiply charged alkali clusters in helium droplets - approaching the Rayleigh limit. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 10623-9	3.6	8
35	Electron attachment to doped helium droplets: C60 <sup>-</sup> , (C60) <sub>2</sub> <sup>-</sup> , and C60D2O <sup>-</sup> anions. <i>European Physical Journal D</i> , <b>2009</b> , 52, 91-94	1.3	8
34	Ne <sub>2</sub> +[II (1/2)u]: radiative decay and electronic predissociation. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 1043-8	3.6	8
33	Collisional formation and dissociation of Na@C60 <sup>+</sup> . <i>Chemical Physics Letters</i> , <b>2002</b> , 353, 11-18	2.5	8
32	Solvation of Silver Ions in Noble Gases He, Ne, Ar, Kr, and Xe. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 10426-10436	2.8	7
31	Atomic Gold Ions Clustered with Noble Gases: Helium, Neon, Argon, Krypton, and Xenon. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 9505-9513	2.8	7
30	Helium Droplets Doped with Sulfur and C. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10919-10924	3.8	7
29	Proton transfer at subkelvin temperatures. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 28165-28172	3.6	7
28	Adsorption of sodium and cesium on aggregates of C60. <i>European Physical Journal D</i> , <b>2016</b> , 70, 1	1.3	7
27	Electron Attachment and Electron Ionization of Formic Acid Clusters Embedded in Helium Nanodroplets. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 787-795	3.5	6
26	Doubly charged CO clusters formed by ionization of doped helium nanodroplets. <i>International Journal of Mass Spectrometry</i> , <b>2014</b> , 365-366, 200-205	1.9	6

25	On the stability of cationic complexes of neon with helium--solving an experimental discrepancy. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 16599-604	3.6	6
24	Nitrogen Cluster Anions. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10632-10637	3.8	6
23	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> , <b>2009</b> , 15, 4190-4	4.8	6
22	Isotope effects in the metastable decay of Ne <sub>2</sub> <sup>+</sup> . <i>European Physical Journal D</i> , <b>2007</b> , 43, 77-80	1.3	6
21	Doubly charged coronene clusters-Much smaller than previously observed. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 174303	3.9	5
20	Helium nanodroplets doped with copper and water. <i>European Physical Journal D</i> , <b>2018</b> , 72, 1	1.3	5
19	Vibrational Energy Dependence of the Triplet Lifetime in Isolated, Photoexcited C <sub>60</sub> . <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 6944-6952	2.8	5
18	Isotope enrichment in neon clusters grown in helium nanodroplets. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 164305	3.9	5
17	Hansen and Echt Reply:. <i>Physical Review Letters</i> , <b>1999</b> , 82, 460-460	7.4	4
16	Splashing of Large Helium Nanodroplets upon Surface Collisions.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 263401	7.4	4
15	Convergence of Cluster Properties Towards Bulk Behavior: How Large is Large? <b>1996</b> , 221-239		4
14	Electron attachment and electron ionization of helium droplets containing clusters of C <sub>60</sub> and formic acid. <i>International Journal of Mass Spectrometry</i> , <b>2020</b> , 450, 116293	1.9	3
13	The Physics of Small Clusters. <i>Europhysics News</i> , <b>1989</b> , 20, 151-154	0.2	3
12	Charged Clusters of C and Au or Cu: Evidence for Stable Sizes and Specific Dissociation Channels. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 4599-4608	2.8	2
11	Experiments on clusters. <i>Hyperfine Interactions</i> , <b>1987</b> , 38, 685-698	0.8	2
10	COLLISIONAL FORMATION OF METALLOFULLERENES <b>2000</b> ,		2
9	Electronic transitions in Rb <sub>2</sub> <sup>+</sup> dimers solvated in helium. <i>Theoretical Chemistry Accounts</i> , <b>2021</b> , 140, 1	1.9	2
8	A soft gamma-ray concentrator using thin-film multilayer structures <b>2015</b> ,		1

7	SF: Stabilizing Transient Ions in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 4112-4117	6.4	1
6	On the stability of neon cluster ions [Evidence for isomeric structures. <i>International Journal of Mass Spectrometry</i> , <b>2021</b> , 462, 116528	1.9	1
5	A concept for a soft gamma-ray concentrator using thin-film multilayer structures <b>2016</b> ,		1
4	Measuring the Heat Capacity of Large Isolated Molecules via Gas-Phase Collisions: C60. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11233-11237	3.8	0
3	Adsorption of helium on a charged propeller molecule: hexaphenylbenzene. <i>European Physical Journal D</i> , <b>2021</b> , 75, 1	1.3	0
2	Preface to the Special Issue [SPIC XVIII: International Symposium on Small Particles and Inorganic Clusters 2016] <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10629-10631	3.8	
1	Photoexcited C60: fragmentation and delayed ionization <b>1997</b> , 355-360		