

# Henrik Cederquist

## List of Publications by Year in descending order

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68  
papers

1,513  
citations

257450

24  
h-index

330143

37  
g-index

69  
all docs

69  
docs citations

69  
times ranked

849  
citing authors

#	ARTICLE	IF	CITATIONS
1	First storage of ion beams in the Double Electrostatic Ion-Ring Experiment: DESIREE. Review of Scientific Instruments, 2013, 84, 055115.	1.3	116
2	The double electrostatic ion ring experiment: A unique cryogenic electrostatic storage ring for merged ion-beams studies. Review of Scientific Instruments, 2011, 82, 065112.	1.3	105
3	Intra-atomic Electron-Electron Scattering in He Collisions (Thomas Process) Investigated by Cold Target Recoil Ion Momentum Spectroscopy. Physical Review Letters, 1997, 79, 387-390.	7.8	79
4	Multiple ionization and fragmentation of isolated pyrene and coronene molecules in collision with ions. Physical Review A, 2011, 83, .	2.5	66
5	Molecular Growth Inside of Polycyclic Aromatic Hydrocarbon Clusters Induced by Ion Collisions. Journal of Physical Chemistry Letters, 2015, 6, 1536-1542.	4.6	62
6	Nonstatistical fragmentation of large molecules. Physical Review A, 2014, 89, .	2.5	57
7	Photodissociation of protonated amino acids and peptides in an ion storage ring. Determination of Arrhenius parameters in the high-temperature limit. Physical Chemistry Chemical Physics, 2004, 6, 2676-2681.	2.8	53
8	Storing keV Negative Ions for an Hour: The Lifetime of the Metastable $P^-$ Ions in the Cryogenic Electrostatic Ion-Beam Storage Ring DESIREE. Physical Review Letters, 2017, 119, 073001.	7.8	53
9	Power-law decay of collisionally excited amino acids and quenching by radiative cooling. European Physical Journal D, 2003, 25, 139-148.	1.3	52
10	Formation of H <sub>2</sub> from internally heated polycyclic aromatic hydrocarbons: Excitation energy dependence. Journal of Chemical Physics, 2015, 142, 144305.	3.0	43
11	Rotationally Cold $OH^-$ Ions in the Cryogenic Electrostatic Ion-Beam Storage Ring DESIREE. Physical Review Letters, 2017, 119, 073001.	7.8	41
12	Failure of hydrogenation in protecting polycyclic aromatic hydrocarbons from fragmentation. Physical Review A, 2015, 92, .	2.5	40
13	Ionization and fragmentation of polycyclic aromatic hydrocarbon clusters in collisions with keV ions. Physical Review A, 2011, 84, .	2.5	38
14	Absolute fragmentation cross sections in atom-molecule collisions: Scaling laws for non-statistical fragmentation of polycyclic aromatic hydrocarbon molecules. Journal of Chemical Physics, 2014, 140, 224306.	3.0	35
15	Experimental separation of the Thomas charge-transfer process in high-velocity $He^+$ collisions. Physical Review A, 2006, 73, .	2.5	33
16	Operating a triple stack microchannel plate-phosphor assembly for single particle counting in the 12 eV–300 K temperature range. Review of Scientific Instruments, 2007, 78, 113301.	1.3	33
17	Importance of Thomas single-electron transfer in fast $He^+$ -He collisions. Physical Review A, 2010, 81, .	2.5	32
18	Roadmap on dynamics of molecules and clusters in the gas phase. European Physical Journal D, 2021, 75, 1.	1.3	32

#	ARTICLE	IF	CITATIONS
19	Two-center interference in fast proton <sup>+</sup> H <sub>2</sub> -electron transfer and excitation processes. Physical Review A, 2005, 72, .	2.5	31
20	Formation dynamics of fullerene dimers Mutual Neutralization of $C^+$ and $C_2^+$ Physical Review A, 2014, 89, .	2.5	27
21	Energy gain in collisions of highly charged ions with C <sub>60</sub> . Physical Review A, 1997, 56, 4799-4806.	2.5	26
22	Threshold Energies for Single-Carbon Knockout from Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry Letters, 2015, 6, 4504-4509.	4.6	26
23	Mutual Neutralization of $C^+$ and $C_2^+$ Physical Review A, 2014, 89, .	7.8	26
24	A design study for an internal gas-jet target for the heavy-ion storage ring CRYRING. , 1997, 108, 339-354.		25
25	Recoil-ion momentum distributions for transfer ionization in fast proton-He collisions. Physical Review A, 2005, 72, .	2.5	25
26	Spontaneous decay of small copper-cluster anions Physical Review A, 2017, 95, .	1.50	23
27	Roadmap on photonic, electronic and atomic collision physics: III. Heavy particles: with zero to relativistic speeds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171003.	1.5	22
28	Cryogenic merged-ion-beam experiments in DESIREE: Final-state-resolved mutual neutralization of $Li^+$ and $D^+$ Physical Review A, 2020, 102, .	2.5	18
29	Radiative cooling of carbon cluster anions $C_{2n+1}^-$ ( $n=3-5$ ). European Physical Journal D, 2020, 74, 1.	1.3	17
30	Electron capture and loss by protonated peptides and proteins in collisions with $C_{60}^+$ and Na. European Physical Journal D, 2003, 22, 75-79.	1.3	16
31	Ultraslow radiative cooling of $C_n^-$ ( $n=3-5$ ). Journal of Chemical Physics, 2019, 151, 114304.	3.0	16
32	Storage time dependent photodissociation action spectroscopy of polycyclic aromatic hydrocarbon cations in the cryogenic electrostatic storage ring DESIREE. Faraday Discussions, 2019, 217, 126-137.	3.2	16
33	Ions colliding with mixed clusters of $C_60$ and coronene: Fragmentation and bond formation. Physical Review A, 2014, 90, .	2.5	15
34	Radiative lifetimes of the bound excited states of $Pt^+$ Physical Review A, 2016, 94, .	2.5	15
35	Hydrogenated pyrene: Statistical single-carbon loss below the knockout threshold. European Physical Journal D, 2016, 70, 1.	1.3	15
36	Survival of polycyclic aromatic hydrocarbon knockout fragments in the interstellar medium. Nature Communications, 2021, 12, 6646.	12.8	15

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37	Lifetime of the bound excited level in $\text{Ni}^{20+}$ . Physical Review A, 2016, 93, .	1.4	11
38	Electrostatic model calculations of fission barriers for fullerene ions. European Physical Journal D, 2004, 29, 63-68.	1.3	13
39	Decays of excited silver-cluster anions $\text{Ag}_n^-$ . Physical Review A, 2010, 82, .	2.5	13
40	Final-state-resolved mutual neutralization of $\text{Na}^+$ and $\text{D}^-$ . Physical Review A, 2021, 103, .	2.5	13
41	Thermionic emission laser spectroscopy of stored $\text{C}_{60}^-$ . European Physical Journal D, 1999, 9, 351-354.	1.3	12
42	Mutual Neutralization in $\text{Li}^+ + \text{H}^- / \text{D}^-$ and $\text{Na}^+ + \text{H}^- / \text{D}^-$ Collisions: Implications of Experimental Results for Non-LTE Modeling of Stellar Spectra. Astrophysical Journal, 2021, 908, 245.	4.5	11
43	Spontaneous Electron Emission from Hot Silver Dimer Anions: Breakdown of the Born-Oppenheimer Approximation. Physical Review Letters, 2020, 124, 173001.	7.8	10
44	Resonant electron capture by $\text{C}_{60}^-$ at a metal surface with projected band gap. Physical Review B, 2010, 81, .	1.2	9
45	$\text{C}_{60}^-$ collisions. Physical Review A, 2014, 90, .	2.5	8
46	DESIREE electro spray ion source test bench and setup for collision induced dissociation experiments. Review of Scientific Instruments, 2018, 89, 075102.	1.3	7
47	Mutual neutralization of $\text{Mg}^+$ and $\text{D}^-$ . Physical Review A, 2014, 90, .	7.8	7
48	High-energy collisions of protonated enantiopure amino acids with a chiral target gas. International Journal of Mass Spectrometry, 2015, 388, 59-64.	1.5	6
49	Lifetime measurements for metastable He like ions. , 2000, 127, 247-250.		5
50	Interaction and charge transfer between dielectric spheres: Exact and approximate analytical solutions. Journal of Chemical Physics, 2016, 145, 194307.	3.0	5
51	Intrinsic absorption profile and radiative cooling rate of a PAH cation revealed by action spectroscopy in the cryogenic electrostatic storage ring DESIREE. Proceedings of the International Astronomical Union, 2019, 15, 127-131.	0.0	5
52	Mutual neutralisation of $\text{O}^+$ with $\text{O}^-$ : investigation of the role of metastable ions in a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2021, 23, 24607-24616.	2.8	5
53	Present status of the Stockholm electron beam ion source and its scientific program. AIP Conference Proceedings, 2001, , .	0.4	4
54	Experimental investigation of the asymptotic momentum wave function of the He ground state. AIP Conference Proceedings, 2002, , .	0.4	4

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55	Fragmentation and ionization of C70 and C60 by slow ions of intermediate charge. European Physical Journal D, 2006, 38, 299-306.	1.3	4
56	Dianion diagnostics in DESIREE: High-sensitivity detection of $Cn^{2-}$ from a sputter ion source. Review of Scientific Instruments, 2018, 89, 033112.	1.3	4
57	COLLISION INDUCED FRAGMENTATION OF FULLERENE CLUSTERS (C60) <sub>n</sub> . International Journal of Modern Physics B, 2005, 19, 2345-2352.	2.0	2
58	Fragmentation of isolated and nanosolvated biomolecular systems. , 2008, , .		2
59	Experimental lifetime of the $a1^{\pi}$ electronically excited state of $CH^+$ . Physical Review Research, 2022, 4, .	3.6	2
60	The Stability of Cosmic Fullerenes and Fullerenic Aggregates. Proceedings of the International Astronomical Union, 2013, 9, 339-343.	0.0	1
61	A design study for an internal gas-jet target for the heavy-ion storage ring CRYRING. , 1997, 108, 339.		1
62	CLUSTERS AND CLUSTERS OF CLUSTERS IN COLLISIONS. , 2006, , .		1
63	Collisional deexcitation of metastable ions: A new technique to separate radiative and nonradiative contributions. , 1999, , .		0
64	Kinetic energy releases of exploding C60 ions produced by slow highly charged ions. AIP Conference Proceedings, 2003, , .	0.4	0
65	Status of the Mini-Ring project: a compact electrostatic storage ring. , 2008, , .		0
66	Decay pathways for protonated and deprotonated adenine molecules. Journal of Chemical Physics, 2019, 151, 044306.	3.0	0
67	STABILITY AND FRAGMENTATION OF HIGHLY CHARGED FULLERENE CLUSTERS. , 2004, , 301-311.		0
68	LIFETIMES OF $\{m C\}^{2-}_{60}$ AND $\{m C\}^{2-}_{70}$ DIANIONS IN A STORAGE RING. , 2006, , .		0