

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1643403/c-p-safvan-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

122
papers

1,878
citations

23
h-index

40
g-index

126
ext. papers

1,980
ext. citations

1.9
avg, IF

3.97
L-index

#	Paper	IF	Citations
122	Controlling the alignment of neutral molecules by a strong laser field. <i>Journal of Chemical Physics</i> , 1999 , 110, 10235-10238	3.9	228
121	Aligning molecules with intense nonresonant laser fields. <i>Journal of Chemical Physics</i> , 1999 , 111, 7774-7781	3.9	205
120	Dissociative Recombination of H ₃ O ⁺ , HD ₂ O ⁺ , and D ₃ O ⁺ . <i>Astrophysical Journal</i> , 2000 , 543, 764-774	4.7	139
119	Long-lived, doubly charged diatomic and triatomic molecular ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995 , 28, 3415-3426	1.3	70
118	Molecular pendular states in intense laser fields. <i>Physical Review A</i> , 1996 , 53, 3098-3102	2.6	66
117	Dissociative recombination of the cation and dication of CO ₂ . <i>Physical Review A</i> , 2003 , 68,	2.6	60
116	Dissociative recombination and excitation of H ₂ O ⁺ and HDO ⁺ . <i>Physical Review A</i> , 1999 , 60, 2970-2976	2.6	59
115	Absolute high-resolution rate coefficients for dissociative recombination of electrons with HD ⁺ : Comparison of results from three heavy-ion storage rings. <i>Physical Review A</i> , 2003 , 68,	2.6	57
114	Electron collisions with diatomic anions. <i>Physical Review A</i> , 1999 , 60, 2882-2899	2.6	50
113	Formation of H ₃ ⁺ due to intramolecular bond rearrangement in doubly charged methanol. <i>Physical Review Letters</i> , 2006 , 97, 213201	7.4	49
112	Dissociative recombination and excitation of H ₃ ⁺ . <i>Physical Review A</i> , 2001 , 63,	2.6	46
111	Pendular motion of linear in intense laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, L95-L103	1.3	36
110	Strong fields induce ultrafast rearrangement of H atoms in H ₂ O. <i>Journal of Chemical Physics</i> , 2009 , 130, 231104	3.9	34
109	Dissociation of highly charged N ₂ ^{q+} (q>=2) ions via non-Coulombic potential energy curves. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994 , 27, 4073-4081	1.3	32
108	Doubly Charged Negative Ions of B ₂ and C ₂ . <i>Physical Review Letters</i> , 1998 , 81, 5302-5305	7.4	31
107	Dissociative ionization of molecules by intense laser fields at 532 nm and 10 ¹² -10 ¹⁴ W cm ⁻² . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994 , 27, 2981-2991	1.3	28
106	Molecular-orientation effects in the dissociative ionization of CH ₄ in intense laser fields. <i>Physical Review A</i> , 1994 , 50, R7-R9	2.6	25

105	Ion-induced triple fragmentation of CO ₂ ³⁺ into C ⁺⁺ O ⁺⁺ O ⁺ . <i>Physical Review A</i> , 2011 , 84,	2.6	24
104	A setup for probing ion-molecule collision dynamics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 243, 435-441	1.2	24
103	Setup for measuring angular anisotropies in slow ion-molecule collisions. <i>International Journal of Mass Spectrometry</i> , 2014 , 374, 44-48	1.9	23
102	Ion-induced dissociation dynamics of acetylene. <i>Physical Review A</i> , 2008 , 77,	2.6	23
101	Single and multiple ionization of in intense laser fields: wavelength dependence and energetics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 3135-3149	1.3	23
100	Intense laser field ionisation of CS ₂ at 532 nm. Does dissociation precede ionisation?. <i>Chemical Physics Letters</i> , 1994 , 217, 626-630	2.5	23
99	ECR ion source based low energy ion beam facility 2002 , 59, 805-809		22
98	On the spatial alignment of bent triatomic molecules by intense, picosecond laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997 , 30, 3821-3831	1.3	21
97	Search for doubly charged negative ions of small carbon clusters. <i>Chemical Physics Letters</i> , 1997 , 277, 558-563	2.5	19
96	Lifetime of 1s2s2p4P _{5/2o} in V ₂₀ ⁺ using beam-foil techniques. <i>Physical Review A</i> , 2002 , 66,	2.6	19
95	Coulomb and centrifugal barrier bound dianion resonances of NO ₂ . <i>Journal of Chemical Physics</i> , 2001 , 114, 147	3.9	19
94	Kinetic energy distributions and signature of target excitation in N ₂ fragmentation on collisions with Ar ⁹⁺ ions. <i>Physical Review A</i> , 2006 , 74,	2.6	18
93	Collision-induced dissociation of CO ₂ ⁺ ions. <i>Physical Review A</i> , 1998 , 58, 2834-2843	2.6	17
92	Velocity dependence of fragmentation yields in proton- π -naphthalene collision and comparison with electronic energy loss calculation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 085202	1.3	15
91	Spatial alignment of molecules by intense, linearly-polarized light fields and the effects of space charge. <i>Chemical Physics Letters</i> , 1998 , 286, 329-335	2.5	15
90	Electron collisions with the diatomic fluorine anion. <i>Physical Review A</i> , 2001 , 63,	2.6	15
89	Dissociation dynamics of in intense laser fields: directional specificity of and fragments. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, L481-L487	1.3	14
88	Dissociation of methanol by ion-impact: Breakup dynamics, bond rearrangement and kinetic energy release. <i>International Journal of Mass Spectrometry</i> , 2008 , 276, 43-48	1.9	14

87	Kinetic energy distributions in ion-induced CO fragmentation: Signature of shallow states in multiply charged CO. <i>Physical Review A</i> , 2007 , 75,	2.6	14
86	Storage ring study of the dissociative recombination of He ²⁺ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 43-50	1.3	13
85	On the determination of the lifetime of metastable doubly charged molecules by ion translational energy spectrometry: CO ₂ ⁺ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993 , 26, L793-L798	1.3	13
84	Formation of H ₂ ⁺ and H ₃ ⁺ in energetic highly-charged-ion collisions with NH ₃ . <i>Physical Review A</i> , 2017 , 96,	2.6	12
83	Electron emission and electron transfer processes in proton-naphthalene collisions at intermediate velocities. <i>Physical Review A</i> , 2013 , 88,	2.6	12
82	Distortion of molecular electron density distributions by an intense laser field: dissociative ionization of. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997 , 30, L339-L347	1.3	12
81	Butterfly structure: signature of vibrational flopping in dissociative acetylene. <i>Journal of Chemical Physics</i> , 2007 , 127, 051101	3.9	12
80	Fast beam photofragment apparatus for studies of electronic and nuclear dynamics. <i>Review of Scientific Instruments</i> , 1999 , 70, 3289-3298	1.7	12
79	A long-lived triply charged diatomic ion, CS ₃ ⁺ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993 , 26, L837-L843	1.3	12
78	Dissociation of carbonyl sulfide by 150 keV Ar ⁺ ion impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 215207	1.3	11
77	Dissociative recombination of the CO ₂ ⁺ dication. <i>Physical Review A</i> , 1999 , 60, R3361-R3364	2.6	11
76	State-selective single-electron capture in very slow collisions between metastable N ₂ ²⁺ ions and neutral atoms and molecules. <i>Chemical Physics Letters</i> , 1996 , 258, 336-341	2.5	11
75	Role of a Neighbor Ion in the Fragmentation Dynamics of Covalent Molecules. <i>Physical Review Letters</i> , 2017 , 118, 233402	7.4	10
74	Dissociative recombination of dications. <i>Journal of Chemical Physics</i> , 2003 , 119, 839-843	3.9	10
73	Comparison of the dissociative ionization of CS ₂ in intense laser fields and by charged particle impact: orientational effects caused by light polarization?. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994 , 27, L603-L610	1.3	10
72	Three-body dissociation of OCS: Separating sequential and concerted pathways. <i>Journal of Chemical Physics</i> , 2018 , 148, 064302	3.9	9
71	Hard X-ray generation from microdroplets in intense laser fields. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 469-477	1.9	8
70	Laser ablation of carbon clusters in high charge states. <i>Chemical Physics Letters</i> , 1996 , 255, 25-31	2.5	8

69	EXPERIMENTAL TEST OF A QUANTUM-LIKE THEORY: MOTION OF ELECTRONS IN A UNIFORM MAGNETIC FIELD, IN A VARIABLE POTENTIAL WELL. <i>Modern Physics Letters A</i> , 1999 , 14, 479-490	1.3	7
68	Lifetime measurements by ion translational energy spectrometry: metastable SH ₂ ⁺ ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994 , 27, L477-L483	1.3	7
67	Dissociation of OCS by high energy highly charged ion impact. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	6
66	An electrostatic deceleration lens for highly charged ions. <i>Review of Scientific Instruments</i> , 2010 , 81, 043301	1.7	6
65	Double detachment of electrons from C ₂ ⁺ . <i>Chemical Physics Letters</i> , 1996 , 259, 415-419	2.5	6
64	Triple F ⁺ ejection from SF ₆ bombarded by swift ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 205204	1.3	5
63	Fragmentation of water by ion impact: Kinetic energy release spectra. <i>Physical Review A</i> , 2011 , 84,	2.6	5
62	Recoil ion mass spectrometry. Part 2. Formation of slow, multiply charged recoil ions in collisions of fast negative ions with Ar and Kr atoms. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993 , 128, 195-201		5
61	Note: Multi channel Doppler tuned spectrometer to study highly charged ions. <i>Review of Scientific Instruments</i> , 2014 , 85, 066110	1.7	4
60	Communication: atomic and molecular Rydbergs from water. <i>Journal of Chemical Physics</i> , 2011 , 134, 2011101	1.7	4
59	Measurements of dication lifetimes by translational energy spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1995 , 9, 325-328	2.2	4
58	Dissociation dynamics of molecular ions in very high charge states. <i>Rapid Communications in Mass Spectrometry</i> , 1995 , 9, 352-357	2.2	4
57	Electron impact ionization of H ₂ O ice. <i>Rapid Communications in Mass Spectrometry</i> , 1993 , 7, 620-622	2.2	4
56	Plasmon excitation and subsequent isomerization dynamics in naphthalene and azulene under fast proton interaction. <i>Journal of Chemical Physics</i> , 2018 , 149, 194303	3.9	4
55	Power-law decay of doubly ionized ethylene. <i>Physical Review A</i> , 2018 , 98,	2.6	4
54	Low energy highly charged ion beam facility at Inter University Accelerator Centre: Measurement of the plasma potential and ion energy distributions. <i>Physics of Plasmas</i> , 2015 , 22, 113503	2.1	3
53	On the collisional detachment of two electrons from C ₄ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 163, 141-147		3
52	Two-electron processes in the ionization of H ₂ and D ₂ by fast protons. <i>Physical Review A</i> , 1996 , 54, 2925-2929	2.9	3

51	. <i>IEEE Sensors Journal</i> , 2019 , 19, 2500-2508	4	3
50	Orientation dependence of multiple ionisation of a diatomic molecule under proton impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 115201	1.3	2
49	A sensitive on-chip probe-based portable nuclear magnetic resonance for detecting low parasitaemia plasmodium falciparum in human blood. <i>Medical Devices & Sensors</i> , 2020 , 3, e10098	1.6	2
48	Anisotropic two-body dissociation by highly charged ion impact. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102003	0.3	2
47	Do linear molecules always dissociate along their axis? Intra-molecular scattering within Diiodoacetylene. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032061	0.3	2
46	Dissociation dynamics of highly-charged molecules in intense laser fields. <i>Physica Scripta</i> , 1997 , T73, 254-258	2	
45	First High Temperature Superconducting ECRIS. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
44	Dissociation dynamics in chloroform molecule induced by ion impact. <i>International Journal of Mass Spectrometry</i> , 2021 , 469, 116684	1.9	2
43	Can substitution accomplish intact polycationic stability in polyatomic molecules? Illustration with acetylene molecule. <i>Journal of Molecular Structure</i> , 2015 , 1099, 348-350	3.4	1
42	Molecular Orbital interpretation to the couplings in collisions of 2.5 and 3 MeV Xe ¹⁰⁺ , ¹²⁺ -Au and Zr systems. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 092029	0.3	1
41	Design of mechanically compensated Penning trap for the study of ions in extreme laser field. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 092070	0.3	1
40	Orientation and alignment effects in ion-induced fragmentation of water: a triple coincidence study. <i>Journal of Chemical Physics</i> , 2014 , 141, 164313	3.9	1
39	Slow Highly Charged Ions by Electrostatic Deceleration. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 142006	0.3	1
38	Setup for in situ deep level transient spectroscopy of semiconductors during swift heavy ion irradiation. <i>Review of Scientific Instruments</i> , 2008 , 79, 056103	1.7	1
37	A setup for probing collisions of highly charged ions with liquid droplets. <i>Review of Scientific Instruments</i> , 2004 , 75, 5094-5099	1.7	1
36	Alignment of Neutral Molecules by a Strong Nonresonant Linearly Polarized Laser Field. <i>ACS Symposium Series</i> , 2002 , 320-335	0.4	1
35	D ₂ ²⁺ dication as a probe of spatial alignment of D ₂ molecules in intense laser light. <i>International Journal of Mass Spectrometry</i> , 1999 , 192, 367-377	1.9	1
34	A new technique for measurement of subrotational lifetime of molecular ions. <i>Scientific Reports</i> , 2020 , 10, 20301	4.9	1

33	Hydrogen migration in triply charged acetylene.. <i>Journal of Chemical Physics</i> , 2022 , 156, 141101	3.9	1
32	Anisotropy in multiple ionisation of CO by ion collisions at intermediate interaction strengths. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 195202	1.3	0
31	Dissociation of Methanol and Acetylene by slow Highly Charged Ion Collision. <i>Journal of Physics: Conference Series</i> , 2007 , 80, 012005	0.3	0
30	Unexplained dissociation pathways of two-body fragmentation of methane dication.. <i>Journal of Chemical Physics</i> , 2022 , 156, 054301	3.9	0
29	Coupling of collective excitation in proton and photon interaction with PAHs. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 112059	0.3	
28	Angular distribution in two-body dissociation of $\{\text{SO}\}_2^{\text{q+}}$. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152062	0.3	
27	Triple ionisation of OCS: orientation dependence in the case of ion impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 155202	1.3	
26	Dissociation dynamics of NH ₃ under slow highly charged ion impact. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102004	0.3	
25	Bond rearrangement in NH ₃ under slow highly charged ion impact. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102005	0.3	
24	Three-body dissociation of OCS ₃ ⁺ : separating sequential and concerted pathways. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102006	0.3	
23	Exploring metastable decay dynamics of polycyclic aromatic nitrogen containing hydrocarbons upon HCN evaporation. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 122004	0.3	
22	Multiple ionization and dissociation of ethylene induced by collision of Xe ⁹⁺ . <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102017	0.3	
21	Molecular orbital perspective for inner shell couplings: Level diagrams. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022074	0.3	
20	Orientation and alignment effects in ion-induced fragmentation of isolated water molecules. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032041	0.3	
19	Angular distributions of multiply charged fragments from dissociation of Nitrogen molecules by Xe ⁹⁺ impact. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032103	0.3	
18	Monte Carlo simulation for ion-molecule collisions at intermediate velocity. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032075	0.3	
17	Ionization and electron capture in 240 keV Kr ⁸⁺ collisions with CO ₂ . <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032058	0.3	
16	Measurement of Plasma Potential using Deceleration technique. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022047	0.3	

- 15 Energetic Rydberg neutrals from water dissociation. *Journal of Physics: Conference Series*, **2012**, 388, 012039 0.3
- 14 Fragmentation of OCS₃⁺ formed by 150 keV Ar⁺ ion impact on OCS. *Journal of Physics: Conference Series*, **2012**, 388, 102020 0.3
- 13 Similarities in fragmentation dynamics of molecules under various perturbations. *Journal of Physics: Conference Series*, **2012**, 388, 102043 0.3
- 12 Energetic Rydberg neutrals from water dissociation. *Journal of Physics: Conference Series*, **2012**, 388, 102018 0.3
- 11 Fragment kinetic energy distributions in ion induced CO₂ fragmentation. *Journal of Physics: Conference Series*, **2012**, 388, 102019 0.3
- 10 Dissociation dynamics of multiply charged CO₂ by low energy ion impact using coincidence mapping. *Journal of Physics: Conference Series*, **2009**, 194, 102026 0.3
- 9 Radioactive ion beam acceleration at MAFF. *Nuclear Physics A*, **2004**, 746, 397-400 1.3
- 8 Study of the interactions of intense laser beams and of fast-ion beams with molecules. *Rapid Communications in Mass Spectrometry*, **1995**, 9, 329-335 2.2
- 7 Three body dissociation of $\text{SO}_2^{\text{q}+}$. *Journal of Physics: Conference Series*, **2020**, 1412, 152048 0.3
- 6 Fragmentation Dynamics of Atomic and Molecular Clusters. *Springer Proceedings in Physics*, **2020**, 67-73 0.2
- 5 Ion induced fragmentation of diatomic molecular clusters. *Journal of Physics: Conference Series*, **2020**, 1412, 152068 0.3
- 4 Statistical process in nitrogen containing naphthalene derivatives in collision with fast electrons and protons. *Journal of Physics: Conference Series*, **2020**, 1412, 132041 0.3
- 3 Kinetic energy release in dissociation of NH₃^{q+} under ion impact. *Journal of Physics: Conference Series*, **2020**, 1412, 152007 0.3
- 2 Plasmon assisted isomerization in naphthalene and azulene. *Journal of Physics: Conference Series*, **2020**, 1412, 152063 0.3
- 1 H-atom rearrangement in NH₃ under ion impact **2021**, 87, 139-142