

C P Safvan

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.

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	Unexplained dissociation pathways of two-body fragmentation of methane dication.. <i>Journal of Chemical Physics</i> , 2022 , 156, 054301	3.9	0
121	Hydrogen migration in triply charged acetylene.. <i>Journal of Chemical Physics</i> , 2022 , 156, 141101	3.9	1
120	H-atom rearrangement in NH3 under ion impact 2021 , 87, 139-142		
119	Dissociation dynamics in chloroform molecule induced by ion impact. <i>International Journal of Mass Spectrometry</i> , 2021 , 469, 116684	1.9	2
118	Angular distribution in two-body dissociation of $\{\{\rm{SO}}\}\}_2^{\{q+\}}$. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152062	0.3	
117	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
116	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	
115	Three body dissociation of $\{\{\rm{SO}}\}\}_2^{\{q+\}}$. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152068	0.3	
114	Fragmentation Dynamics of Atomic and Molecular Clusters. <i>Springer Proceedings in Physics</i> , 2020 , 67-73	0.2	
113	Ion induced fragmentation of diatomic molecular clusters. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152068	0.3	
112	Statistical process in nitrogen containing naphthalene derivatives in collision with fast electrons and protons. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 132041	0.3	
111	Kinetic energy release in dissociation of NH3 q+ under ion impact. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152007	0.3	
110	Plasmon assisted isomerization in naphthalene and azulene. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152063	0.3	
109	A new technique for measurement of subrotational lifetime of molecular ions. <i>Scientific Reports</i> , 2020 , 10, 20301	4.9	1
108	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
107	. <i>IEEE Sensors Journal</i> , 2019 , 19, 2500-2508	4	3
106	Three-body dissociation of OCS: Separating sequential and concerted pathways. <i>Journal of Chemical Physics</i> , 2018 , 148, 064302	3.9	9

105	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
104	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
103	Power-law decay of doubly ionized ethylene. <i>Physical Review A</i> , 2018 , 98,	2.6	4
102	Dissociation dynamics of NH ₃ under slow highly charged ion impact. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102004	0.3	
101	Bond rearrangement in NH ₃ under slow highly charged ion impact. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102005	0.3	
100	Three-body dissociation of OCS ₃ ⁺ : separating sequential and concerted pathways. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102006	0.3	
99	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
98	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
97	Role of a Neighbor Ion in the Fragmentation Dynamics of Covalent Molecules. <i>Physical Review Letters</i> , 2017 , 118, 233402	7.4	10
96	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	
95	Anisotropic two-body dissociation by highly charged ion impact. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102003	0.3	2
94	Multiple ionization and dissociation of ethylene induced by collision of Xe ⁹⁺ . <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102017	0.3	
93	Coupling of collective excitation in proton and photon interaction with PAHs. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 112059	0.3	
92	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
91	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
90	Molecular orbital perspective for inner shell couplings: Level diagrams. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022074	0.3	
89	Orientation and alignment effects in ion-induced fragmentation of isolated water molecules. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032041	0.3	
88	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

87	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	
86	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
85	Monte Carlo simulation for ion-molecule collisions at intermediate velocity. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032075	0.3	
84	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	
83	Measurement of Plasma Potential using Deceleration technique. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022047	0.3	
82	Setup for measuring angular anisotropies in slow ion-molecule collisions. <i>International Journal of Mass Spectrometry</i> , 2014 , 374, 44-48	1.9	23
81	Note: Multi channel Doppler tuned spectrometer to study highly charged ions. <i>Review of Scientific Instruments</i> , 2014 , 85, 066110	1.7	4
80	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
79	Velocity dependence of fragmentation yields in proton-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
78	Dissociation of OCS by high energy highly charged ion impact. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	6
77	Electron emission and electron transfer processes in proton-naphthalene collisions at intermediate velocities. <i>Physical Review A</i> , 2013 , 88,	2.6	12
76	Energetic Rydberg neutrals from water dissociation. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 012039	0.3	
75	Fragmentation of OCS ³⁺ formed by 150 keV Ar ⁺ ion impact on OCS. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 102020	0.3	
74	Similarities in fragmentation dynamics of molecules under various perturbations. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 102043	0.3	
73	Energetic Rydberg neutrals from water dissociation. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 102018	0.3	
72	Fragment kinetic energy distributions in ion induced CO ₂ fragmentation. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 102019	0.3	
71	Slow Highly Charged Ions by Electrostatic Deceleration. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 142006	0.3	1
70	Communication: atomic and molecular Rydbergs from water. <i>Journal of Chemical Physics</i> , 2011 , 134, 201101	1.0	4

69	Ion-induced triple fragmentation of CO ₂ ³⁺ into C ⁺⁺ O ⁺⁺ O ⁺ . <i>Physical Review A</i> , 2011 , 84,	2.6	24
68	Fragmentation of water by ion impact: Kinetic energy release spectra. <i>Physical Review A</i> , 2011 , 84,	2.6	5
67	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
66	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
65	An electrostatic deceleration lens for highly charged ions. <i>Review of Scientific Instruments</i> , 2010 , 81, 043301	0.1	6
64	Strong fields induce ultrafast rearrangement of H atoms in H ₂ O. <i>Journal of Chemical Physics</i> , 2009 , 130, 231104	3.9	34
63	Dissociation dynamics of multiply charged CO ₂ by low energy ion impact using coincidence mapping. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 102026	0.3	
62	Ion-induced dissociation dynamics of acetylene. <i>Physical Review A</i> , 2008 , 77,	2.6	23
61	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
60	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
59	Butterfly structure: signature of vibrational flopping in dissociative acetylene. <i>Journal of Chemical Physics</i> , 2007 , 127, 051101	3.9	12
58	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
57	Dissociation of Methanol and Acetylene by slow Highly Charged Ion Collision. <i>Journal of Physics: Conference Series</i> , 2007 , 80, 012005	0.3	0
56	Formation of H ₃ ⁺ due to intramolecular bond rearrangement in doubly charged methanol. <i>Physical Review Letters</i> , 2006 , 97, 213201	7.4	49
55	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
54	A setup for probing ionmolecule collision dynamics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 243, 435-441	1.2	24
53	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
52	First High Temperature Superconducting ECRIS. <i>AIP Conference Proceedings</i> , 2005 ,	0	2

51	Storage ring study of the dissociative recombination of He ⁺ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 43-50	1.3	13
50	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
49	Radioactive ion beam acceleration at MAFF. <i>Nuclear Physics A</i> , 2004 , 746, 397-400	1.3	
48	Dissociative recombination of the cation and dication of CO ₂ . <i>Physical Review A</i> , 2003 , 68,	2.6	60
47	Dissociative recombination of dications. <i>Journal of Chemical Physics</i> , 2003 , 119, 839-843	3.9	10
46	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
45	Alignment of Neutral Molecules by a Strong Nonresonant Linearly Polarized Laser Field. <i>ACS Symposium Series</i> , 2002 , 320-335	0.4	1
44	ECR ion source based low energy ion beam facility 2002 , 59, 805-809		22
43	Lifetime of 1s2s2p4P _{5/2o} in V ²⁰⁺ using beam-foil techniques. <i>Physical Review A</i> , 2002 , 66,	2.6	19
42	Dissociative recombination and excitation of H ₃ ⁺ . <i>Physical Review A</i> , 2001 , 63,	2.6	46
41	Electron collisions with the diatomic fluorine anion. <i>Physical Review A</i> , 2001 , 63,	2.6	15
40	Coulomb and centrifugal barrier bound dianion resonances of NO ₂ . <i>Journal of Chemical Physics</i> , 2001 , 114, 147	3.9	19
39	Dissociative Recombination of H ₃ O ⁺ , HD ₂ O ⁺ , and D ₃ O ⁺ . <i>Astrophysical Journal</i> , 2000 , 543, 764-774	4.7	139
38	Aligning molecules with intense nonresonant laser fields. <i>Journal of Chemical Physics</i> , 1999 , 111, 7774-7781	3.9	205
37	Electron collisions with diatomic anions. <i>Physical Review A</i> , 1999 , 60, 2882-2899	2.6	50
36	Fast beam photofragment apparatus for studies of electronic and nuclear dynamics. <i>Review of Scientific Instruments</i> , 1999 , 70, 3289-3298	1.7	12
35	Controlling the alignment of neutral molecules by a strong laser field. <i>Journal of Chemical Physics</i> , 1999 , 110, 10235-10238	3.9	228
34	Dissociative recombination of the CO ₂ ⁺ dication. <i>Physical Review A</i> , 1999 , 60, R3361-R3364	2.6	11

33	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
32	D22+ dication as a probe of spatial alignment of D2 molecules in intense laser light. <i>International Journal of Mass Spectrometry</i> , 1999 , 192, 367-377	1.9	1
31	Dissociative recombination and excitation of H2O+ and HDO+. <i>Physical Review A</i> , 1999 , 60, 2970-2976	2.6	59
30	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
29	Doubly Charged Negative Ions of B2 and C2. <i>Physical Review Letters</i> , 1998 , 81, 5302-5305	7.4	31
28	Collision-induced dissociation of CO2+ ions. <i>Physical Review A</i> , 1998 , 58, 2834-2843	2.6	17
27	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
26	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
25	Dissociation dynamics of highly-charged molecules in intense laser fields. <i>Physica Scripta</i> , 1997 , T73, 254-258	2.6	2
24	On the collisional detachment of two electrons from C4. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 163, 141-147		3
23	Search for doubly charged negative ions of small carbon clusters. <i>Chemical Physics Letters</i> , 1997 , 277, 558-563	2.5	19
22	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
21	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
20	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
19	Laser ablation of carbon clusters in high charge states. <i>Chemical Physics Letters</i> , 1996 , 255, 25-31	2.5	8
18	State-selective single-electron capture in very slow collisions between metastable N22+ ions and neutral atoms and molecules. <i>Chemical Physics Letters</i> , 1996 , 258, 336-341	2.5	11
17	Double detachment of electrons from C2. <i>Chemical Physics Letters</i> , 1996 , 259, 415-419	2.5	6
16	Molecular pendular states in intense laser fields. <i>Physical Review A</i> , 1996 , 53, 3098-3102	2.6	66

- 15 Two-electron processes in the ionization of H₂ and D₂ by fast protons. *Physical Review A*, **1996**, 54, 2925-2929 3
- 14 Measurements of dication lifetimes by translational energy spectrometry. *Rapid Communications in Mass Spectrometry*, **1995**, 9, 325-328 2.2 4
- 13 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
- 12 Dissociation dynamics of molecular ions in very high charge states. *Rapid Communications in Mass Spectrometry*, **1995**, 9, 352-357 2.2 4
- 11 Long-lived, doubly charged diatomic and triatomic molecular ions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1995**, 28, 3415-3426 1.3 70
- 10 Dissociation of highly charged N₂^{q+} (q>=2) ions via non-Coulombic potential energy curves. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, 4073-4081 1.3 32
- 9 Lifetime measurements by ion translational energy spectrometry: metastable SH₂⁺ ions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, L477-L483 1.3 7
- 8 Comparison of the dissociative ionization of CS₂ in intense laser fields and by charged particle impact: orientational effects caused by light polarization?. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, L603-L610 1.3 10
- 7 Molecular-orientation effects in the dissociative ionization of CH₄ in intense laser fields. *Physical Review A*, **1994**, 50, R7-R9 2.6 25
- 6 Intense laser field ionisation of CS₂ at 532 nm. Does dissociation precede ionisation?. *Chemical Physics Letters*, **1994**, 217, 626-630 2.5 23
- 5 Dissociative ionization of molecules by intense laser fields at 532 nm and 1012-1014 W cm⁻². *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, 2981-2991 1.3 28
- 4 On the determination of the lifetime of metastable doubly charged molecules by ion translational energy spectrometry: CO₂⁺. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1993**, 26, L793-L798 1.3 13
- 3 A long-lived triply charged diatomic ion, CS₃⁺. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1993**, 26, L837-L843 1.3 12
- 2 Electron impact ionization of H₂O ice. *Rapid Communications in Mass Spectrometry*, **1993**, 7, 620-622 2.2 4
- 1 Recoil ion mass spectrometry. Part 2. Formation of slow, multiply charged recoil ions in collisions of fast negative ions with Ar and Kr atoms. *International Journal of Mass Spectrometry and Ion Processes*, **1993**, 128, 195-201 5