

Deepak Mathur

List of Publications by Year in descending order

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317
papers

6,132
citations

87888

38
h-index

138484

58
g-index

322
all docs

322
docs citations

322
times ranked

3234
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiply charged molecules. Physics Reports, 1993, 225, 193-272.	25.6	211
2	Structure and dynamics of molecules in high charge states. Physics Reports, 2004, 391, 1-118.	25.6	166
3	Laser photodetachment of C_{60}^{+} and C_{70}^{+} ions cooled in a storage ring. Chemical Physics Letters, 1995, 233, 52-56.	2.6	162
4	Asymmetric High-Energy Ion Emission from Argon Clusters in Intense Laser Fields. Physical Review Letters, 2001, 87, 085005.	7.8	136
5	Raman Tweezers Spectroscopy of Live, Single Red and White Blood Cells. PLoS ONE, 2010, 5, e10427.	2.5	134
6	Femtosecond laser written channel waveguides in tellurite glass. Optics Express, 2006, 14, 12145.	3.4	106
7	Electron-impact detachment from negative ions. Physical Review A, 1996, 53, 2371-2378.	2.5	95
8	Two-dimensional effects in the hydrodynamic expansion of xenon clusters under intense laser irradiation. Physical Review A, 2002, 66, .	2.5	82
9	Electron-Impact Detachment of D^{+} : Near-Threshold Behavior and the Nonexistence of D_2^{+} Resonances. Physical Review Letters, 1995, 74, 892-895.	7.8	81
10	Asymmetric emission of high-energy electrons in the two-dimensional hydrodynamic expansion of large xenon clusters irradiated by intense laser fields. Physical Review A, 2003, 67, .	2.5	80
11	Ion-induced molecular fragmentation: beyond the Coulomb explosion picture. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L11-L20.	1.5	79
12	Long-lived, doubly charged diatomic and triatomic molecular ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 3415-3426.	1.5	77
13	Fullerene-fullerene collisions: Fragmentation and electron capture. Physical Review A, 1995, 52, 3847-3851.	2.5	74
14	Molecular pendular states in intense laser fields. Physical Review A, 1996, 53, 3098-3102.	2.5	70
15	Torque-generating malaria-infected red blood cells in an optical trap. Optics Express, 2004, 12, 1179.	3.4	65
16	Flexible superhydrophobic SERS substrates fabricated by in situ reduction of Ag on femtosecond laser-written hierarchical surfaces. Sensors and Actuators B: Chemical, 2018, 272, 485-493.	7.8	63
17	Systematic study of highly efficient white light generation in transparent materials using intense femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2005, 80, 61-66.	2.2	62
18	Anisotropic charge-flipping acceleration of highly charged ions from clusters in strong optical fields. Physical Review A, 2004, 69, .	2.5	58

#	ARTICLE	IF	CITATIONS
19	Probing the quantal identity of low-lying electronic states of CO ₂ by quantum-chemical calculations and ion-translational-energy spectrometry. <i>Physical Review A</i> , 1991, 44, 5460-5467.	2.5	56
20	Probing oxidative stress in single erythrocytes with Raman Tweezers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 100, 113-116.	3.8	55
21	Self-cleaning superhydrophobic surfaces with underwater superaerophobicity. <i>Materials and Design</i> , 2016, 100, 8-18.	7.0	51
22	Dynamic and geometric alignment of CS ₂ in intense laser fields of picosecond and femtosecond duration. <i>Physical Review A</i> , 1999, 60, R3369-R3372.	2.5	50
23	Plasma effects and the modulation of white light spectra in the propagation of ultrashort, high-power laser pulses in barium fluoride. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 575-583.	2.2	50
24	Energy-loss spectra of Ar ²⁺ -Ne collisions. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1982, 15, 263-273.	1.6	47
25	Effect of laser polarization on x-ray emission from Ar _n (n=200-104) clusters in intense laser fields. <i>Physical Review A</i> , 2001, 63, .	2.5	47
26	Dissociation of highly charged CO _q ⁺ (q>or=2) ions via non-Coulombic potential energy curves. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, L141-L146.	1.5	46
27	Supercontinuum generation in water by intense, femtosecond laser pulses under anomalous chromatic dispersion. <i>Physical Review A</i> , 2014, 89, .	2.5	46
28	Ionization of xenon by electrons: Partial cross sections for single, double, and triple ionization. <i>Physical Review A</i> , 1987, 35, 1033-1042.	2.5	45
29	Highly efficient white light generation from barium fluoride. <i>Optics Express</i> , 2004, 12, 695.	3.4	45
30	Resonant scattering of slow electrons from benzene and substituted benzene molecules. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1976, 9, L31-L37.	1.6	44
31	Dissociative recombination in low-energy e-H ₂ ⁺ and e-H ₃ ⁺ collisions. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1978, 11, 3615-3619.	1.6	42
32	Translational energy loss spectrometry of molecular dications from methane. <i>Chemical Physics</i> , 1986, 103, 447-459.	1.9	41
33	A Micro-Raman Study of Live, Single Red Blood Cells (RBCs) Treated with AgNO ₃ Nanoparticles. <i>PLoS ONE</i> , 2014, 9, e103493.	2.5	40
34	Pendular motion of linear in intense laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, L95-L103.	1.5	39
35	Electron rescattering and the dissociative ionization of alcohols in intense laser light. <i>Journal of Chemical Physics</i> , 2003, 119, 12224-12230.	3.0	39
36	All-optical switching with bacteriorhodopsin. <i>Optics Communications</i> , 2004, 237, 251-256.	2.1	39

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37	Measuring erythrocyte deformability with fluorescence, fluid forces, and optical trapping. Journal of Biomedical Optics, 2008, 13, 1.	2.6	39
38	Tank Treading of Optically Trapped Red Blood Cells in Shear Flow. Biophysical Journal, 2011, 101, 1604-1612.	0.5	39
39	Naturally occurring, optically driven, cellular rotor. Applied Physics Letters, 2004, 85, 6048-6050.	3.3	38
40	Euler buckling-induced folding and rotation of red blood cells in an optical trap. Physical Biology, 2006, 3, 67-73.	1.8	38
41	Writing low-loss waveguides in borosilicate (BK7) glass with a low-repetition-rate femtosecond laser. Optics Communications, 2011, 284, 630-634.	2.1	38
42	Visualization of focusing and refocusing cycles during filamentation in BaF ₂ . Applied Physics B: Lasers and Optics, 2009, 94, 259-263.	2.2	37
43	Formation of doubly charged Co ²⁺ ions: a combined experimental and theoretical study. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 2815-2826.	1.5	36
44	Dissociation of highly charged N ₂ ^{q+} (q>=2) ions via non-Coulombic potential energy curves. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 4073-4081.	1.5	36
45	Explosions of water clusters in intense laser fields. Physical Review A, 2003, 67, .	2.5	36
46	Collisions of slow electrons with methane: ionisation, fragmentation and resonances. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, 4703-4716.	1.6	35
47	Dissociative ionization of benzene in intense laser fields of picosecond duration. Physical Review A, 1999, 59, 1392-1398.	2.5	35
48	Enhancement of x-ray yields from heteronuclear cluster plasmas irradiated by intense laser light. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L291-L299.	1.5	35
49	Strong fields induce ultrafast rearrangement of H atoms in H ₂ O. Journal of Chemical Physics, 2009, 130, 231104.	3.0	35
50	Excited states of XH ₂ ⁺ (X=C, N, O, S) ions: a combined experimental and theoretical study. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 2571-2584.	1.5	34
51	A reaction window in double charge-transfer mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1988, 83, 203-208.	1.8	33
52	Carrier-Envelope-Phase Effects in Ultrafast Strong-Field Ionization Dynamics of Multielectron Systems: Xe and CS_2 . Physical Review Letters, 2013, 110, 083602.	7.8	33
53	Temporary negative-ion states in pyridine and diazine molecules. Chemical Physics, 1976, 16, 347-352.	1.9	32
54	Electron rescattering and the fragmentation dynamics of molecules in strong optical fields. Physical Review A, 2003, 68, .	2.5	32

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55	Effect of group velocity dispersion on supercontinuum generation and filamentation in transparent solids. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 471-479.	2.2	32
56	Effect of Intense, Ultrashort Laser Pulses on DNA Plasmids in their Native State: Strand Breakages Induced by <i>In Situ</i> Electrons and Radicals. <i>Physical Review Letters</i> , 2011, 106, 118101.	7.8	31
57	Energy distributions of recoil ions produced in 100 MeV collisions of Si ⁸⁺ with CO ₂ and CS ₂ molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 2997-3008.	1.5	30
58	Spatial alignment of gas-phase polyatomic molecules by an intense laser field. <i>Physical Review A</i> , 1997, 56, 2455-2458.	2.5	30
59	Supercontinuum generation in water doped with gold nanoparticles. <i>Applied Physics Letters</i> , 2013, 103, 111109.	3.3	30
60	DNA Damage by OH Radicals Produced Using Intense, Ultrashort, Long Wavelength Laser Pulses. <i>Physical Review Letters</i> , 2014, 112, 138105.	7.8	30
61	Dissociative ionization of molecules by intense laser fields at 532 nm and 1012-1014 W cm ⁻² . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 2981-2991.	1.5	29
62	Multiple ionization of N ₂ in intense, linearly and circularly polarized light fields. <i>Physical Review A</i> , 1999, 60, R25-R28.	2.5	29
63	Depolarization of white light generated by ultrashort laser pulses in optical media. <i>Optics Letters</i> , 2006, 31, 2184.	3.3	29
64	Engineering clusters for table-top acceleration of ions. <i>Applied Physics Letters</i> , 2006, 88, 041107.	3.3	29
65	Dissociative ionization of methane by chirped pulses of intense laser light. <i>Journal of Chemical Physics</i> , 2004, 120, 5616-5623.	3.0	28
66	Strong light fields coax intramolecular reactions on femtosecond time scales. <i>Journal of Chemical Physics</i> , 2004, 121, 9765-9768.	3.0	28
67	Energy pooling in multiple ionization and Coulomb explosion of clusters by nanosecond-long, megawatt laser pulses. <i>Journal of Chemical Physics</i> , 2006, 125, 034304.	3.0	28
68	Parasite impairment by targeting Plasmodium-infected RBCs using glyceryl-dilaurate nanostructured lipid carriers. <i>Biomaterials</i> , 2014, 35, 6636-6645.	11.4	28
69	Electron scattering by water and alcohol molecules. <i>Chemical Physics Letters</i> , 1975, 34, 90-91.	2.6	27
70	State-diagnosed electron capture collisions of CS ₂ ^{q+} (q=2, 3) with atomic and molecular gases. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1986, 19, L575-L580.	1.6	27
71	Intensity-selective, field-induced dissociative ionization of CS ₂ by femtosecond-duration light pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 4277-4292.	1.5	27
72	Probing molecular symmetry effects in the ionization of N ₂ and O ₂ by intense laser fields. <i>Journal of Chemical Physics</i> , 2007, 127, 064310.	3.0	27

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73	Optical trapping in an absorbing medium: from optical tweezing to thermal tweezing. Optics Express, 2012, 20, 4645.	3.4	27
74	An experimental and theoretical study of SF q+ (q = 1-3) ions. Chemical Physics, 1991, 154, 125-134.	1.9	26
75	Propensity of molecules to spatially align in intense light fields. Physical Review A, 2001, 63, .	2.5	26
76	Micro-Raman Spectroscopy of Silver Nanoparticle Induced Stress on Optically-Trapped Stem Cells. PLoS ONE, 2012, 7, e35075.	2.5	26
77	Assembling Neurospheres: Dynamics of Neural Progenitor/Stem Cell Aggregation Probed Using an Optical Trap. PLoS ONE, 2012, 7, e38613.	2.5	26
78	Mobilities of O+, O+* and O2+ in He and Ar from ion energy distribution measurements in an injected-ion drift tube. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 1443-1453.	1.6	25
79	Molecular-orientation effects in the dissociative ionization of CH4 in intense laser fields. Physical Review A, 1994, 50, R7-R9.	2.5	25
80	Single and multiple ionization of in intense laser fields: wavelength dependence and energetics. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 3135-3149.	1.5	25
81	On the ionization and dissociation of NO2 by short intense laser pulses. Chemical Physics Letters, 1997, 270, 37-44.	2.6	25
82	State-selected electron capture by molecular ions: collisions of CS2+ and CS23+ with monatomic and diatomic targets. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1811-1822.	1.6	24
83	Intense laser field ionisation of CS2 at 532 nm. Does dissociation precede ionisation?. Chemical Physics Letters, 1994, 217, 626-630.	2.6	24
84	On the spatial alignment of bent triatomic molecules by intense, picosecond laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 3821-3831.	1.5	24
85	An experimental and theoretical study of the dissociative ionization of and by an intense laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 4065-4085.	1.5	24
86	Fragmentation dynamics of CS2q+ (q=3-10) molecular ions. Physical Review A, 2001, 64, .	2.5	24
87	Probing differentiation in cancer cell lines by single-cell micro-Raman spectroscopy. Journal of Biomedical Optics, 2015, 20, 085001.	2.6	24
88	Collision processes of electrons with molecular hydrogen ions. Journal of Physics B: Atomic and Molecular Physics, 1979, 12, 2043-2050.	1.6	23
89	Dissociative ionization of CO by 22.5-48.5 eV photons: kinetic energy measurements of fragment ions by coincidence time-of-flight mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1992, 114, 123-136.	1.8	23
90	Formation of Negative Ions upon Irradiation of Molecules by Intense Laser Fields. Physical Review Letters, 1998, 80, 3220-3223.	7.8	23

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91	Polarization and energy stability of filamentation-generated few-cycle pulses. Optics Express, 2008, 16, 7083.	3.4	23
92	Molecular symmetry effects in the ionization of CS_2 intense few-cycle laser pulses. Physical Review A, 2008, 78, .	2.5	23
93	Optical-tweezer-induced microbubbles as scavengers of carbon nanotubes. Nanotechnology, 2010, 21, 245102.	2.6	23
94	Femtosecond laser filamentation in condensed media with Bessel beams. Physical Review A, 2012, 86, .	2.5	23
95	Double ionisation energy of methane measured using a double electron capture technique. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, L493-L497.	1.6	22
96	Strong-field ionization and Coulomb explosion of argon clusters by few-cycle laser pulses. Physical Review A, 2010, 82, .	2.5	22
97	Singly, doubly, and triply charged cations of carbon disulfide. Mass Spectrometry Reviews, 1989, 8, 269-291.	5.4	21
98	Search for doubly charged negative ions of small carbon clusters. Chemical Physics Letters, 1997, 277, 558-563.	2.6	21
99	Strong-field ionization of water by intense few-cycle laser pulses. Physical Review A, 2008, 78, .	2.5	21
100	Communication: Ionization and Coulomb explosion of xenon clusters by intense, few-cycle laser pulses. Journal of Chemical Physics, 2010, 133, 061101.	3.0	21
101	Anomalies in the motion dynamics of long-flagella mutants of Chlamydomonas reinhardtii. Journal of Biological Physics, 2013, 39, 1-14.	1.5	21
102	Translational energy spectrometry of quantum-state-selected electron capture by metastable CO_2^+ ions. Physical Review A, 1990, 41, 4824-4830.	2.5	20
103	Two-photon pumped lasing from methanol micro-droplets doped by a weakly fluorescent dye. Chemical Physics Letters, 2003, 372, 263-268.	2.6	20
104	Coulombic and non-Coulombic fragmentation of highly charged benzene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1699-1707.	1.5	20
105	Control of the onset of filamentation in condensed media. Physical Review A, 2007, 76, .	2.5	20
106	Bright visible emission from carbon nanotubes spatially constrained on a micro-bubble. Optics Express, 2009, 17, 9614.	3.4	20
107	On the formation of CH_2^+ ions. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1517-1525.	1.6	19
108	Dissociative ionization of gas-phase chloromethanes by intense fields of picosecond and attosecond duration. Physical Review A, 1998, 58, 3849-3855.	2.5	19

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109	Ion charge state distribution in the laser-induced Coulomb explosion of argon clusters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 625-632.	1.5	19
110	Quantum dynamics of proton migration in H ₂ O dications: H ₂ ⁺ formation on ultrafast timescales. <i>Journal of Chemical Physics</i> , 2012, 136, 024320.	3.0	19
111	Deposition and alignment of cells on laser-patterned quartz. <i>Applied Surface Science</i> , 2014, 305, 375-381.	6.1	19
112	Collision-induced dissociation of CO ₂ ⁺ ions. <i>Physical Review A</i> , 1998, 58, 2834-2843.	2.5	18
113	Nonadiabatic response of molecules to strong fields of picosecond, femtosecond, and subfemtosecond duration: An experimental study of the methane dication. <i>Journal of Chemical Physics</i> , 2006, 124, 194308.	3.0	18
114	Suppression of ultrafast supercontinuum generation in a salivary protein. <i>Journal of Biomedical Optics</i> , 2007, 12, 020510.	2.6	18
115	Intense Two-Cycle Laser Pulses Induce Time-Dependent Bond Hardening in a Polyatomic Molecule. <i>Physical Review Letters</i> , 2012, 108, 073602.	7.8	18
116	Seventh-harmonic generation from tightly focused 2.4 μm ultrashort pulses in air. <i>Optics Letters</i> , 2013, 38, 2560.	3.3	18
117	Femtosecond supercontinuum generation in water in the vicinity of absorption bands. <i>Optics Letters</i> , 2016, 41, 3475.	3.3	18
118	Potential energy curves of low-lying electronic states of CO ₂ ⁺ . <i>Chemical Physics Letters</i> , 1989, 163, 189-192.	2.6	17
119	An experimental investigation of a reaction window in cross-sections for double-charge-transfer reactions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989, 87, R1-R6.	1.8	17
120	Translational energy spectrometric and quantum chemical study of CS _q ⁺ (q=1, 2) radicals: charge stripping and dissociation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 5149-5162.	1.5	17
121	Angle-resolved covariance mapping of spatially-aligned in an intense picosecond laser field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 1087-1095.	1.5	17
122	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.	2.6	16
123	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.	2.6	16
124	Dynamics of Photothermally Created Vapor, Gaseous, and Mixed Microbubbles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6611-6617.	3.1	16
125	Selective breaking of bonds in water with intense, 2-cycle, infrared laser pulses. <i>Journal of Chemical Physics</i> , 2015, 143, 244310.	3.0	16
126	Ultrafast Biophotonics. <i>Biological and Medical Physics Series</i> , 2016, , .	0.4	16

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127	Effect of infrared light on live blood cells: Role of β^2 -carotene. Journal of Photochemistry and Photobiology B: Biology, 2017, 171, 104-116.	3.8	16
128	Electron spectroscopy of hydrogen fluoride resonances. Chemical Physics, 1978, 34, 29-38.	1.9	15
129	Single and multiple ionization of Ar and Kr by low energy electron impact using a crossed beam apparatus. International Journal of Mass Spectrometry and Ion Processes, 1984, 57, 167-178.	1.8	15
130	Electron capture collisions of $Kr^{2+}(3P)$ in H_2 . Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 4795-4804.	1.6	15
131	On the quantal identification of low-lying electronic states of CO^+ . Journal of Physics B: Atomic, Molecular and Optical Physics, 1989, 22, L385-L389.	1.5	15
132	Dissociation dynamics of in intense laser fields: directional specificity of and fragments. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L481-L487.	1.5	15
133	Supercontinuum generation in macromolecular media. Applied Physics B: Lasers and Optics, 2010, 99, 427-432.	2.2	15
134	Shape anisotropy induces rotations in optically trapped red blood cells. Journal of Biomedical Optics, 2010, 15, 041504.	2.6	15
135	Pattern formation in transparent media using ultrashort laser pulses. Optics Communications, 2013, 304, 29-38.	2.1	15
136	Effect of chirp on the index contrast of waveguides written in BK7 glass with ultrashort laser pulses. Optics Communications, 2013, 287, 122-127.	2.1	15
137	Minireview: Laser-Induced Formation of Microbubbles – Biomedical Implications. Langmuir, 2019, 35, 10139-10150.	3.5	15
138	Total cross section function for $e-N_2$ resonant scattering. Journal of Physics B: Atomic and Molecular Physics, 1977, 10, L265-L267.	1.6	14
139	Energy distributions of diatomic molecular positive ions in a drift tube. International Journal of Mass Spectrometry and Ion Physics, 1978, 26, 91-101.	1.3	14
140	Energy distribution of CO^+ ions drifting in He, Ne and Ar. Journal Physics D: Applied Physics, 1981, 14, 633-641.	2.8	14
141	Energy-loss spectra of single electron capture products from Ar^{2+} collisions with Ar, Kr and Xe. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 2051-2059.	1.6	14
142	How are S_2^+ ions formed in electron collisions with linear $Si_3C_4S_7$? Rapid Communications in Mass Spectrometry, 1989, 3, 24-26.	1.5	14
143	Kinetic energies of recoil ions produced in 100-MeV collisions of Si^{8+} with CO_2 molecules. Physical Review A, 1991, 44, R4098-R4101.	2.5	14
144	On the determination of the lifetime of metastable doubly charged molecules by ion translational energy spectrometry: CO_2^+ . Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, L793-L798.	1.5	14

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145	Third-order nonlinear optical response in transparent solids using ultrashort laser pulses. Applied Physics B: Lasers and Optics, 2012, 107, 703-709.	2.2	14
146	Generation of stable colloidal gold nanoparticles by ultrashort laser-induced melting and fragmentation. Materials Research Express, 2014, 1, 035028.	1.6	14
147	Energy-loss spectra of product ions in electron capture. Journal of Physics B: Atomic and Molecular Physics, 1979, 12, L163-L166.	1.6	13
148	Translational energy spectroscopy of CH ₂ ⁺ : First direct evidence of an excited electronic state. Chemical Physics Letters, 1988, 144, 387-390.	2.6	13
149	HCl-Induced Molecule Fragmentation: non-Coulombic Explosion and Three-Body Effects. Physica Scripta, 2001, T92, 89-95.	2.5	13
150	Optically-controllable, micron-sized motor based on live cells. Optics Express, 2005, 13, 1555.	3.4	13
151	Ionization of Linear Alcohols by Strong Optical Fields. Journal of Physical Chemistry A, 2007, 111, 9299-9306.	2.5	13
152	On the birefringence of healthy and malaria-infected red blood cells. Journal of Biomedical Optics, 2013, 18, 125001.	2.6	13
153	On the generation of polarization-dependent supercontinuum and third harmonic in air. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094012.	1.5	13
154	Optically trapping tumor cells to assess differentiation and prognosis of cancers. Biomedical Optics Express, 2016, 7, 943.	2.9	13
155	A laser Raman tweezers study of eryptosis. Journal of Raman Spectroscopy, 2018, 49, 1155-1164.	2.5	13
156	Electron-induced proton production by dissociative autoionisation in CH ₄ . Chemical Physics Letters, 1981, 81, 115-118.	2.6	12
157	Electron-pair ion coincidence (EPIC) techniques for spectrometry and state-selective chemistry of doubly charged ions. Rapid Communications in Mass Spectrometry, 1991, 5, 475-478.	1.5	12
158	A long-lived triply charged diatomic ion, CS ₃ ⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, L837-L843.	1.5	12
159	Electronic excitation of H ₂ in slow collisions with molecular ions. Physical Review A, 1994, 50, 2383-2389.	2.5	12
160	Distortion of molecular electron density distributions by an intense laser field: dissociative ionization of. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L339-L347.	1.5	12
161	Characterization of doping levels in heteronuclear, gas-phase, van der Waals clusters and their energy absorption from an intense optical field. Chemical Physics Letters, 2006, 430, 26-31.	2.6	12
162	Influencing supercontinuum generation by phase distorting an ultrashort laser pulse. Optics Letters, 2015, 40, 241.	3.3	12

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163	Odd and even numbered hydrogen ion clusters. <i>Nature</i> , 1979, 280, 573-574.	27.8	11
164	On the CH dication. <i>Chemical Physics Letters</i> , 1988, 150, 547-548.	2.6	11
165	The methane dication revisited. <i>Rapid Communications in Mass Spectrometry</i> , 1991, 5, 15-18.	1.5	11
166	On the kinetic energy released upon collision-induced dissociation of oriented diatomic ions. <i>Rapid Communications in Mass Spectrometry</i> , 1993, 7, 734-737.	1.5	11
167	Collision-induced dissociation of C ₆₀ ²⁺ : Effect of energy-coupling processes on the dissociation dynamics. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 114-118.	1.5	11
168	Irradiation of benzene molecules by ion-induced and light-induced intense fields. <i>Physical Review A</i> , 2001, 63, .	2.5	11
169	Efficient broadband emission from condensed media irradiated by low-intensity, unfocused, ultrashort laser light. <i>Optics Express</i> , 2005, 13, 8555.	3.4	11
170	Strong-field ionization of alcohols: An electron spectroscopic study of ionization dynamics. <i>Chemical Physics Letters</i> , 2007, 439, 296-300.	2.6	11
171	Axicon-based writing of waveguides in BK7 glass. <i>Optics Letters</i> , 2013, 38, 172.	3.3	11
172	Optical control of filamentation-induced damage to DNA by intense, ultrashort, near-infrared laser pulses. <i>Scientific Reports</i> , 2016, 6, 27515.	3.3	11
173	Anomalous formation of trihydrogen cations from water on nanoparticles. <i>Nature Communications</i> , 2021, 12, 3839.	12.8	11
174	Resonant scattering of slow electrons from naphthalene vapour. <i>Chemical Physics Letters</i> , 1977, 48, 50-54.	2.6	10
175	The CS ₂ dication. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1988, 86, 351-355.	1.8	10
176	A translational energy spectrometer to probe interatomic potentials: Dissociation dynamics of CO ₂ ⁺ ions. <i>Pramana - Journal of Physics</i> , 1993, 41, 271-283.	1.8	10
177	Ion-collision spectrometric study of the dissociation dynamics of S ₂ ⁺ and CS ⁺ radicals. <i>Physical Review A</i> , 1993, 48, 1257-1263.	2.5	10
178	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.	1.5	10
179	Sensitive, real-time monitoring of UV-induced stress in a single, live plant cell using an optical trap. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 439-443.	7.8	10
180	Quantum Dynamics of H ₂ ⁺ in Intense Laser Fields on Time-Dependent Potential Energy Surfaces. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8762-8767.	2.5	10

#	ARTICLE	IF	CITATIONS
181	Cu(I)-Catalyzed Efficient Synthesis of 2-Triazol-nucleoside Conjugates. <i>Journal of Heterocyclic Chemistry</i> , 2015, 52, 701-710.	2.6	10
182	Electron-Molecule Resonances. , 1984, , 403-475.		9
183	Recoil ion mass spectrometry: systematic studies of slow, multiply-charged recoil ion production in collisions of fast fluorine ions with Ar and Kr atoms. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 99, 237-247.	1.8	9
184	Dissociation of doubly charged SH radicals. An experimental and theoretical study. <i>Chemical Physics Letters</i> , 1992, 200, 394-398.	2.6	9
185	Collision-induced dissociation of oriented CO ⁺ ions. Probing potential energy curves by ion collision spectrometry. <i>Chemical Physics Letters</i> , 1993, 216, 203-208.	2.6	9
186	Spatial effects in the intense field ionization of N ₂ molecules by femtosecond-duration laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, L305-L315.	1.5	9
187	High-resolution electron-ion coincidence spectroscopy of ethanol in intense laser fields. <i>Physical Review A</i> , 2007, 75, .	2.5	9
188	Biology-inspired AMO physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 022001.	1.5	9
189	On the heat of formation of [C ₆ H ₄] ⁺ . <i>Organic Mass Spectrometry</i> , 1981, 16, 261-263.	1.3	8
190	Dissociative ionisation of H ₂ and D ₂ by monoenergetic electron impact in the threshold region. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1981, 40, 235-239.	1.3	8
191	State-diagnosed electron capture by OCS ³⁺ ions in collisions with atomic and molecular gases. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, L577-L581.	1.6	8
192	On the formation of rotationally hot H ₂ ⁺ . by dissociation of CH ₄ ²⁺ dications. <i>Rapid Communications in Mass Spectrometry</i> , 1991, 5, 557-564.	1.5	8
193	Collisional excitation of CO by slow molecular ions: wavefunction overlap effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 1177-1186.	1.5	8
194	Laser ablation of carbon clusters in high charge states. <i>Chemical Physics Letters</i> , 1996, 255, 25-31.	2.6	8
195	Electron attachment to valence-excited CO. <i>Physical Review A</i> , 1999, 59, 4809-4812.	2.5	8
196	White-Light-Induced Fragmentation of Methane. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9399-9404.	2.5	8
197	Measurement of ultrashort laser pulses using single-crystal films of 4-aminobenzophenone. <i>Optics Communications</i> , 2007, 280, 472-476.	2.1	8
198	Varying coordination modes of amide ligand in group 12 Hg(ii) and Cd(ii) complexes: synthesis, crystal structure and nonlinear optical properties. <i>Dalton Transactions</i> , 2015, 44, 1933-1941.	3.3	8

#	ARTICLE	IF	CITATIONS
199	Ultrafast dynamics of hemin aggregates. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26862-26869.	2.8	8
200	Hydrogen migration within a water molecule: formation of HD ⁺ upon irradiation of HOD with intense, ultrashort laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 154004.	1.5	8
201	Electron-impact excitation of autoionizing states in xenon. <i>Journal of Chemical Physics</i> , 1981, 75, 5381-5384.	3.0	7
202	Angular distributions of electrons elastically scattered via K-shell resonances in N ₂ . <i>Physical Review A</i> , 1985, 31, 2709-2710.	2.5	7
203	On the ionization of xenon by electrons. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1986, 68, 9-14.	1.8	7
204	Absolute cross-sections for state-diagnosed electron capture by N ₂ ⁺ ions from molecular hydrogen. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1988, 85, 229-236.	1.8	7
205	Probing vibrational modes in a neutral triatomic molecule by high-resolution translational-energy spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 479-483.	1.5	7
206	Wavefunction overlap effects in the collisional excitation of NH ₃ by slow molecular ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 3435-3443.	1.5	7
207	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.	1.5	7
208	Double detachment of electrons from C ₂ ²⁺ . <i>Chemical Physics Letters</i> , 1996, 259, 415-419.	2.6	7
209	Multi-hit, position-sensitive, time-of-flight spectrometry using a modified-backgammon-weighted-capacitor anode. <i>International Journal of Mass Spectrometry</i> , 2002, 215, 151-162.	1.5	7
210	Flagella-generated forces reveal gear-type motor in single cells of the green alga, <i>Chlamydomonas reinhardtii</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 266-270.	2.1	7
211	Rotational Dynamics of Optically Trapped Human Spermatozoa. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	2.1	7
212	Microfabrication of Fresnel zone plates by laser induced solid ablation. <i>Journal of Optics (United Kingdom)</i> , 2007, 10, 1-7.	2.2	7
213	Inscription of type I and depressed cladding waveguides in lithium niobate using a femtosecond laser. <i>Applied Optics</i> , 2017, 56, 5692.	1.8	7
214	Differential elastic scattering of electrons at the carbon K-shell resonance in methane. <i>Chemical Physics Letters</i> , 1984, 107, 39-42.	2.6	6
215	On the double ionisation of methane. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1986, 19, 343-348.	1.6	6
216	The calibration of the energy-loss scale for charge-stripping reactions of singly-charged positive ions. <i>Rapid Communications in Mass Spectrometry</i> , 1988, 2, 167-169.	1.5	6

#	ARTICLE	IF	CITATIONS
217	Perturbation of water by intense light-induced fields of picosecond duration and ion-induced fields of attosecond duration. <i>Physical Review A</i> , 1999, 59, 3105-3108.	2.5	6
218	Single and multiple ionization of N ₂ molecules by intense light fields of femtosecond duration. <i>Pramana - Journal of Physics</i> , 1999, 52, 421-434.	1.8	6
219	Laser-Driven Accelerated Growth of Dendritic Patterns in Liquids. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11480-11485.	3.1	6
220	Enhanced third harmonic generation in air by two-colour ultrashort laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	6
221	Inscription of waveguides and power splitters in borosilicate glass using ultrashort laser pulses. <i>Journal of Optics (India)</i> , 2017, 46, 304-310.	1.7	6
222	Inner-shell resonances in elastic scattering of electrons from N ₂ and CH ₄ . <i>Chemical Physics Letters</i> , 1984, 104, 500-503.	2.6	5
223	An experimental and theoretical study of the negatively charged helium dimer, He ₂ ⁻ . <i>Chemical Physics Letters</i> , 1990, 167, 475-478.	2.6	5
224	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.	1.8	5
225	On the collisional excitation of N ₂ by slow molecular ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 132, 137-141.	1.8	5
226	Measurements of dication lifetimes by translational energy spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 325-328.	1.5	5
227	Dissociation dynamics of molecular ions in very high charge states. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 352-357.	1.5	5
228	High-resolution ion translational energy spectroscopy of electronic excitation of homonuclear diatomic molecules in ion molecule collisions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 165-166, 119-137.	1.8	5
229	On the collisionally induced destruction of short- and long-lived fullerene ions. <i>Chemical Physics Letters</i> , 1997, 264, 508-512.	2.6	5
230	Angle-resolved mass spectrometry of chloromethanes in an intense laser field. <i>Rapid Communications in Mass Spectrometry</i> , 1998, 12, 246-250.	1.5	5
231	Polarization-state dependence of the ionization dynamics of a chiral molecule in intense laser light. <i>Physical Review A</i> , 2000, 61, .	2.5	5
232	On the acceleration of ions from exploding clusters. <i>Laser Physics</i> , 2006, 16, 581-587.	1.2	5
233	Light scattering from a magnetically tunable dense random medium with dissipation: ferrofluid. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	5
234	Dynamics of atomic clusters in intense optical fields of ultrashort duration#. <i>Journal of Chemical Sciences</i> , 2012, 124, 75-81.	1.5	5

#	ARTICLE	IF	CITATIONS
235	A search for the sulphur hexafluoride cation with intense, few cycle laser pulses. Journal of Chemical Physics, 2013, 139, 194302.	3.0	5
236	Power- and polarization-dependent supercontinuum generation in O_4 crystals by intense, near-infrared, femtosecond laser pulses. Physical Review A, 2015, 91, .	2.5	5
237	Generation of Multiply Charged Argon Ions in Nanosecond Laser Field Ionization of Argon Clusters. Journal of Physical Chemistry Letters, 2020, 11, 9842-9845.	4.6	5
238	CLUSTER DYNAMICS IN INTENSE LASER FIELDS. Advances in Multi-photon Processes and Spectroscopy, 2004, , 273-306.	0.6	5
239	Low-lying resonant states in HCl and HBr. Chemical Physics Letters, 1979, 62, 86-88.	2.6	4
240	A new channel for observing giant resonances: Dissociative ionization of molecular iodine by electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 123, 345-348.	2.1	4
241	Indications of an indirect process in the double ionization of carbon disulphide. Rapid Communications in Mass Spectrometry, 1988, 2, 90-91.	1.5	4
242	Electron impact ionization of H ₂ O ice. Rapid Communications in Mass Spectrometry, 1993, 7, 620-622.	1.5	4
243	Collisional excitation of CH ₄ and CCl ₄ . Chemical Physics Letters, 1994, 231, 127-131.	2.6	4
244	Application of the time-dependent wavepacket method to mass spectrometric studies of molecular excitation and dissociation. Rapid Communications in Mass Spectrometry, 1995, 9, 358-362.	1.5	4
245	Possible EIT-like effects in strong-field photo-dissociation of carbon disulphide. Chemical Physics Letters, 2007, 438, 31-35.	2.6	4
246	Strong optical fields induce ultrafast rearrangement of H-atoms in ethanol molecules. Laser Physics, 2009, 19, 1686-1690.	1.2	4
247	Effect of nucleants in photothermally assisted crystallization. Photochemical and Photobiological Sciences, 2017, 16, 870-882.	2.9	4
248	Effect of biocompatible nucleants in rapid crystallization of natural amino acids using a CW Nd:YAG laser. Scientific Reports, 2018, 8, 16018.	3.3	4
249	Population Dynamics of Early Human Migration in Britain. PLoS ONE, 2016, 11, e0154641.	2.5	4
250	Probing interatomic potentials by ion translational energy spectrometry: A new crossed molecular beams apparatus. Journal of Chemical Sciences, 1992, 104, 509-523.	1.5	4
251	Collisional detachment of two electrons from S ²⁻ ions: first observation of dissociative double detachment. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, L323-L326.	1.5	3
252	On the collisional detachment of two electrons from C ₄ . International Journal of Mass Spectrometry and Ion Processes, 1997, 163, 141-147.	1.8	3

#	ARTICLE	IF	CITATIONS
253	High-resolution ion translational energy spectrometry of C60. Excitation of singlet and triplet states in collisions with H+ and H2+. Chemical Physics Letters, 1997, 273, 1-7. Low-energy reactions of C_6F_6^+ . Chemical Physics Letters, 1997, 273, 1-7.	2.6	3
254	Low-energy reactions of C_6F_6^+ . Chemical Physics Letters, 1997, 273, 1-7. xhtmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xhtmlns:xs="http://www.w3.org/2001/XMLSchema" xhtmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xhtmlns="http://www.elsevier.com/xml/ja/dtd" xhtmlns:ja="http://www.elsevier.com/xml/ja/dtd" xhtmlns:mml="http://www.w3.org/1998/Math/MathML" xhtmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xhtmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xhtmlns:ce="http://www.elsevier.com/xml/common/struct-bib/dtd"	2.6	3
255	Femtosecond laser induced forward transfer of indium thin films. Laser and Particle Beams, 2014, 32, 55-61.	1.0	3
256	Micro-patterning of Indium thin film for generation of micron and submicron particles using femtosecond laser-induced forward transfer. Laser and Particle Beams, 2015, 33, 449-454.	1.0	3
257	Growth of micro-crystals in solution by in-situ heating via continuous wave infrared laser light and an absorber. Journal of Crystal Growth, 2016, 433, 43-47.	1.5	3
258	Enhancing the Strength of an Optical Trap by Truncation. PLoS ONE, 2013, 8, e61310.	2.5	3
259	A diffusion based study of population dynamics: Prehistoric migrations into South Asia. PLoS ONE, 2017, 12, e0176985.	2.5	3
260	The dissociative ionization of H2 by electrons. Rapid Communications in Mass Spectrometry, 1990, 4, 5-8.	1.5	2
261	State-diagnosed charge stripping in low-energy collisions of ground-state and highly excited N ⁿ⁺ ions with He. Physical Review A, 1990, 42, 5282-5285.	2.5	2
262	Wavefunction overlap effects in low-energy collisional excitation of CO ₂ and CS ₂ by H ₂ ⁺ , N ₂ ⁺ , O ₂ ⁺ and CO ₂ ⁺ projectiles. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L367-L372.	1.5	2
263	Dissociation dynamics of highly-charged molecules in intense laser fields. Physica Scripta, 1997, T73, 254-258.	2.5	2
264	Photoion imaging spectrometry in intense laser fields. International Journal of Mass Spectrometry, 2002, 215, 163-173.	1.5	2
265	Spectral broadening in lithium niobate in a self-diffraction geometry using ultrashort pulses. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	2
266	Irradiation of myoglobin by intense, ultrashort laser pulses. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	2
267	Carrier-envelope phase-dependent ionization of Xe in intense, ultrafast (two-cycle) laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 015601.	1.5	2
268	Electrostatic engineering of charge clouds around DNA inhibits strand breakages. Applied Physics Letters, 2018, 113, 113701.	3.3	2
269	Strong Strand Breaks in DNA Induced by Thermal Energy Particles and Their Electrostatic Inhibition by Na ⁺ Nanostructures. Journal of Physical Chemistry A, 2019, 123, 3241-3247.	2.5	2
270	Thermal Energy Electrons and OH-Radicals Induce Strand Breaks in DNA in an Aqueous Environment: Some Salts Offer Protection Against Strand Breaks. Journal of Physical Chemistry A, 2020, 124, 1508-1514.	2.5	2

#	ARTICLE	IF	CITATIONS
271	Femtosecond laser induced fabrication of a 1Å–2 splitter waveguide in BK7 glass. , 2012, , .		2
272	On double charge transfer reactions studied with tandem collision gas cells. Rapid Communications in Mass Spectrometry, 1987, 1, 105-106.	1.5	1
273	Excitation of neutral molecules: Probing the dynamics by translational energy spectrometry. Rapid Communications in Mass Spectrometry, 1995, 9, 344-351.	1.5	1
274	On the Proposal for Femtosecond Parent-ion Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 1626-1628.	1.5	1
275	D22+ dication as a probe of spatial alignment of D2 molecules in intense laser light. International Journal of Mass Spectrometry, 1999, 192, 367-377.	1.5	1
276	Electron emission and fragmentation of molecules in intense laser fields. Proceedings of SPIE, 2007, , .	0.8	1
277	Broadband light emission from optically-trapped carbon nanotubes. Journal of Physics: Conference Series, 2009, 194, 012054.	0.4	1
278	Propagation of Ultrashort Pulses in Condensed Media. Springer Series in Chemical Physics, 2010, , 81-108.	0.2	1
279	Remembering John Herbert Beynon 29th December 1923 to 24th August 2015. Rapid Communications in Mass Spectrometry, 2016, 30, 1253-1264.	1.5	1
280	Ultrafast Quantum Mechanical Processes in Animals. Biological and Medical Physics Series, 2016, , 145-157.	0.4	1
281	Laser writing of single-crystalline gold substrates for surface enhanced Raman spectroscopy. Materials Research Express, 2017, 4, 075027.	1.6	1
282	Controlling material birefringence in sapphire via self-assembled, sub-wavelength defects. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	1
283	Propagation of Ultrashort, Long Wavelength Laser Pulses. Springer Series in Chemical Physics, 2015, , 105-126.	0.2	1
284	Ultrafast Lasers in Surgery and Cell Manipulation. Biological and Medical Physics Series, 2016, , 77-93.	0.4	1
285	Studies of Multiply Charged Molecules by Ion Collision Techniques and Ab Initio Theoretical Methods. Springer Series in Chemical Physics, 1991, , 225-274.	0.2	1
286	EXPERIMENTAL STUDIES OF METASTABLE AND DISSOCIATIVE STATES OF DOUBLY-CHARGED MOLECULAR IONS. Journal De Physique Colloque, 1989, 50, C1-137-C1-143.	0.2	1
287	Preface- Ultrafast Science: Progress and Opportunities. Proceedings of the Indian National Science Academy, 2015, 81, .	1.4	1
288	Direct femtosecond laser fabricated photon sieve. OSA Continuum, 2019, 2, 1328.	1.8	1

#	ARTICLE	IF	CITATIONS
289	Study of <i>P. falciparum</i> -infected erythrocytes and induced anisotropies under optical and fluid forces. <i>Journal of Vector Borne Diseases</i> , 2007, 44, 23-32.	0.4	1
290	A versatile congestion control framework for broadband ISDN. , 0, , .		0
291	Study of the interactions of intense laser beams and of fast-ion beams with molecules. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 329-335.	1.5	0
292	Lifetimes of metastable molecular ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 99, 121-123.	1.4	0
293	Wave-function overlap effects in low-energy collisional excitation of O ₂ by H ₂ ⁺ , N ₂ ⁺ , O ₂ ⁺ , and CO ₂ ⁺ projectiles. <i>Physical Review A</i> , 1995, 52, 1779-1782.	2.5	0
294	Wavefunction overlap effects in collisional excitation of molecules. <i>AIP Conference Proceedings</i> , 1996, , .	0.4	0
295	Molecular dynamics in attosecond-duration intense-field pulses using a tandem accelerator. , 1999, , .		0
296	Propensity of Molecules to Spatially Align In Linearly-Polarized, Intense Light Fields. <i>ACS Symposium Series</i> , 2002, , 336-349.	0.5	0
297	Matter in Strong Optical Fields: Atoms, Molecules, and Living Matter. , 2007, , .		0
298	Suppression of white light generation (supercontinuum) in biological media: a pilot study using human salivary proteins. , 2007, , .		0
299	Matter in strong fields: from molecules to living cells. <i>Journal of Physics: Conference Series</i> , 2007, 88, 012048.	0.4	0
300	Electron emission from atomic clusters irradiated with few cycle laser pulses. , 2008, , .		0
301	Strong-field ionization of molecules by few-cycle pulses. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012016.	0.4	0
302	A biophotonic study of live, flowing red blood cells in an optical trap. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
303	White Light Generation in Human Saliva. , 2011, , .		0
304	Femtosecond Laser-Induced Dot-pattern Formation in BK7 Glasses. , 2012, , .		0
305	Supercontinuum Generation in Water. , 2014, , .		0
306	Effect of heat source on the growth of dendritic drying patterns. <i>Pramana - Journal of Physics</i> , 2015, 84, 387-394.	1.8	0

#	ARTICLE	IF	CITATIONS
307	Remembering John Herbert Beynon 29th December 1923 to 24th August 2015. Journal of Mass Spectrometry, 2016, 51, 385-395.	1.6	0
308	Mimicking Ultrafast Biological Systems. Biological and Medical Physics Series, 2016, , 179-197.	0.4	0
309	Future Opportunities. Biological and Medical Physics Series, 2016, , 199-222.	0.4	0
310	Ultrashort Pulses and Nonlinear Optics: Nuts and Bolts. Biological and Medical Physics Series, 2016, , 9-39.	0.4	0
311	Biophotonics in Ultrashort, Intense Optical Fields. Biological and Medical Physics Series, 2016, , 95-122.	0.4	0
312	Fabrication of micro-optical components using femtosecond oscillator pulses. Proceedings of SPIE, 2017, , .	0.8	0
313	Spectral narrowing in gases using femtosecond laser pulses. , 2017, , .		0
314	Direct Writing of Type-II Waveguides in Lithium Niobate using Ultrafast Fibre Laser. , 2014, , .		0
315	Energy Landscapes, Tunneling, and Non-adiabatic Effects. Biological and Medical Physics Series, 2016, , 159-177.	0.4	0
316	Zone Plate Fabrication Using a Low Power Femtosecond Laser. Advanced Science Letters, 2017, 23, 1745-1748.	0.2	0
317	Molecular Rearrangements in Intense Laser Fields. , 2008, , 75-91.		0