John Costello

List of Publications by Citations

170 papers	4,611 citations	32 h-index	63 g-index
183 ext. papers	5,048 ext. citations	3.7 avg, IF	4.56 L-index

#	Paper	IF	Citations
170	Operation of a free-electron laser from the extreme ultraviolet to the water window. *Nature Photonics*, **2007**, 1, 336-342	33.9	1207
169	Ultrafast X-ray pulse characterization at free-electron lasers. *Nature Photonics*, **2012**, 6, 852-857	33.9	148
168	Femtosecond all-optical synchronization of an X-ray free-electron laser. *Nature Communications*, **2015**, 6, 5938	17.4	127
167	X-UV Absorption Spectroscopy with Laser-Produced Plasmas: A Review. *Physica Scripta*, **1991**, T34, 77-92	2.6	104
166	First observation of a photon-induced triply excited state in atomic lithium. *Physical Review Letters*, **1994**, 72, 2359-2362	7.4	103
165	Non-linear processes in the interaction of atoms and molecules with intense EUV and X-ray fields from SASE free electron lasers (FELs). *Journal of Modern Optics*, **2010**, 57, 1015-1040	1.1	99
164	Femtosecond x-ray pulse length characterization at the Linac Coherent Light Source free-electron laser. *New Journal of Physics*, **2011**, 13, 093024	2.9	91
163	Experiments at FLASH. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2009**, 601, 108-122	1.2	81
162	Two-color photoionization in xuv free-electron and visible laser fields. *Physical Review A*, **2006**, 74,	2.6	81
161	Measuring the temporal structure of few-femtosecond free-electron laser X-ray pulses directly in the time domain. *Nature Photonics*, **2014**, 8, 950-957	33.9	74
160	High-resolution photoion yield measurements of 'hollow' atomic lithium. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1995**, 28, L161-L168	1.3	70
159	Trends in 4d-subshell photoabsorption along the iodine isonuclear sequence: I, I+, and I2+. *Physical Review A*, **1996**, 53, 3211-3226	2.6	70
158	3p photoabsorption of free and bound Cr, Cr+, Mn, and Mn+. *Physical Review A*, **1991**, 43, 1441-1450	2.6	70
157	Two-colour experiments in the gas phase. *Journal of Physics B: Atomic, Molecular and Optical Physics* , **2010**, 43, 194006	1.3	69
156	Polarization control in two-color above-threshold ionization of atomic helium. *Physical Review Letters*, **2008**, 101, 193002	7.4	69
155	Optimization of the Emission Characteristics of Laser-Produced Steel Plasmas in the Vacuum Ultraviolet: Significant Improvements in Carbon Detection Limits. *Applied Spectroscopy*, **2002**, 56, 970-983	3.1	62
154	Single-shot characterization of independent femtosecond extreme ultraviolet free electron and infrared laser pulses. *Applied Physics Letters*, **2007**, 90, 131108	3.4	58

153	Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. *Nature Communications*, **2014**, 5, 3648	17.4	57
152	Time-resolved pump-probe experiments beyond the jitter limitations at FLASH. *Applied Physics Letters*, **2009**, 94, 144102	3.4	56
151	Marked differences in the 3p photoabsorption between the Cr and Mn+ isoelectronic pair: Reasons for the unique structure observed in Cr. *Physical Review A*, **1989**, 39, 6074-6077	2.6	47
150	Study of a colliding laser-produced plasma by analysis of time- and space-resolved image spectra. *Journal of Applied Physics*, **2007**, 101, 033302	2.5	46
149	Metastable state contributions to the measured 3p photoabsorption spectrum of Cr+ions in a laser-produced plasma. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1999**, 32, L583-L591	1.3	46
148	Discrete structure in the 4d photoabsorption spectrum of antimony and its ions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1999**, 32, 4859-4876	1.3	46
147	Spectroscopic characterization of vacuum ultraviolet free electron laser pulses. *Optics Letters*, **2006** , 31, 1750-2	3	45
146	Stagnation layers at the collision front between two laser-induced plasmas: A study using time-resolved imaging and spectroscopy. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2010**, 65, 627-635	3.1	42
145	Angle-resolved electron spectroscopy of laser-assisted Auger decay induced by a few-femtosecond x-ray pulse. *Physical Review Letters*, **2012**, 108, 063007	7.4	40
144	Two-photon excitation and relaxation of the 3d-4d resonance in atomic Kr. *Physical Review Letters*, **2010**, 104, 213001	7.4	38
143	An experiment for two-color photoionization using high intensity extreme-UV free electron and near-IR laser pulses. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 583, 516-525	1.2	38
142	4f(1P) giant dipole resonance in La3+. *Physical Review Letters*, **1995**, 74, 2188-2191	7.4	36
141	Time-integrated laser-induced plasma spectroscopy in the vacuum ultraviolet for the quantitative elemental characterization of steel alloys. *Journal Physics D: Applied Physics*, **2000**, 33, 2252-2262	3	35
140	LIAD-fs scheme for studies of ultrafast laser interactions with gas phase biomolecules. *Physical Chemistry Chemical Physics*, **2012**, 14, 6289-97	3.6	34
139	XUV photoabsorption of laser-generated W and Pt vapours. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1991**, 24, 5063-5069	1.3	33
138	Atomic photoionization in combined intense XUV free-electron and infrared laser fields. *New Journal of Physics*, **2012**, 14, 043008	2.9	32
137	Two-photon inner-shell ionization in the extreme ultraviolet. *Physical Review Letters*, **2010**, 105, 013001	7.4	32
136	Giant-dipole-resonance absorption in atomic thorium by a novel two-laser technique. *Physical Review Letters*, **1986**, 57, 1581-1583	7.4	32

135	Emission characteristics and dynamics of the stagnation layer in colliding laser produced plasmas. *Journal of Applied Physics*, **2010**, 107, 024904	2.5	31
134	The DCU laser ion source. *Review of Scientific Instruments*, **2010**, 81, 043305	1.7	30
133	VUV/EUV ionising radiation and atoms and ions: dual laser plasma investigations. *Radiation Physics and Chemistry*, **2004**, 70, 291-321	2.5	30
132	Dramatic Changes in the 3s Autoionization Process at the Beginning of the Ar I Sequence. *Physical Review Letters*, **1997**, 78, 3082-3085	7.4	29
131	Interpenetration and stagnation in colliding laser plasmas. *Physics of Plasmas*, **2014**, 21, 013502	2.1	28
130	Electron and ion stagnation at the collision front between two laser produced plasmas. *Journal Physics D: Applied Physics*, **2009**, 42, 055211	3	28
129	Wave-function collapse with increasing ionization: 4d photoabsorption of Cs through Cs4+. *Physical Review A*, **2001**, 63,	2.6	27
128	Even-parity autoionizing states in the extreme-ultraviolet photoabsorption spectra of Mg, Al+, and Si2+. *Physical Review A*, **1994**, 49, 755-761	2.6	27
127	Anomalous Behavior of the Near-Threshold Photoionization Cross Section of the Neon Isoelectronic Sequence: A Combined Experimental and Theoretical Study. *Physical Review Letters*, **1999**, 83, 2151-2154	7.4	26
126	Sensitivity of nonlinear photoionization to resonance substructure in collective excitation. *Nature Communications*, **2015**, 6, 6799	17.4	25
125	Double-pulse laser induced breakdown spectroscopy with ambient gas in the vacuum ultraviolet: Optimization of parameters for detection of carbon and sulfur in steel. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2014**, 101, 106-113	3.1	25
124	Discrete structure in the 4d photoabsorption spectrum of tellurium and its ions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1999**, 32, 3905-3922	1.3	25
123	Theory of ac Stark splitting in core-resonant Auger decay in strong x-ray fields. *Physical Review A*, **2011**, 84,	2.6	24
122	Resonant photoionization of atomic lithium in the region of the first and second inner-shell thresholds. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1996**, 29, L181-L191	1.3	24
121	Ultrashort Free-Electron Laser X-ray Pulses. *Applied Sciences (Switzerland)*, **2017**, 7, 915	2.6	23
120	Evidence for rescattering in intense, femtosecond laser interactions with a negative ion. *Physical Review Letters*, **2004**, 93, 223001	7.4	23
119	Investigation of Na 2p53s3p resonances using angular resolved photoelectron spectroscopy of laser-aligned sodium atoms. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, 1341-1349	1.3	23
118	Plasma parametrization by analysis of time-resolved laser plasma image spectra. *Measurement Science and Technology*, **2006**, 17, 670-674	2	22

117	2p-subshell photoabsorption by Si2+ions in a laser-produced plasma. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1995**, 28, 1715-1722	1.3	21
116	Vacuum-UV absorption spectrum of a laser-produced chromium plasma: 3p-subshell photoabsorption by Cr2+ions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2000**, 33, 5077-5090	1.3	20
115	The 2p-subshell photoabsorption spectrum of Al+in a laser-produced plasma. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1992**, 25, 5055-5068	1.3	20
114	Influence of localized surface plasmons on Pauli blocking and optical limiting in graphene under femtosecond pumping. *Journal of Applied Physics*, **2014**, 116, 073101	2.5	19
113	Charge resolved electrostatic diagnostic of colliding copper laser plasma plumes. *Physics of Plasmas* , **2011**, 18, 103104	2.1	19
112	Enhanced shock wave detection sensitivity for laser-produced plasmas in low pressure ambient gases using interferometry. *Measurement Science and Technology*, **2012**, 23, 125204	2	18
111	4s24p2-4s24p5s transitions in Ru XIII, Rh XIV and Pd XV. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1988**, 21, L195-L199	1.3	18
110	Inter-pulse delay optimization in dual-pulse laser induced breakdown vacuum ultraviolet spectroscopy of a steel sample in ambient gases at low pressure. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2013**, 86, 66-74	3.1	17
109	Dynamics of colliding aluminium plasmas produced by laser ablation. *Applied Surface Science*, **2013**, 272, 69-75	6.7	17
108	Ion emission in collisions between two laser-produced plasmas. *Journal Physics D: Applied Physics*, **2011**, 44, 355203	3	17
107	Controlling core hole relaxation dynamics via intense optical fields. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 141001	1.3	17
106	Trends in autoionization of Rydberg states converging to the 4s threshold in the Kr-Rb+-Sr2+ isoelectonic sequence: Theory and experiment. *Physical Review A*, **2003**, 67,	2.6	17
105	Ion flux enhancements and oscillations in spatially confined laser produced aluminum plasmas. *Physics of Plasmas*, **2014**, 21, 093113	2.1	16
104	Extreme-UV photoabsorption spectrum of a laser-produced silicon plasma: evidence for metastable Si ions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1998**, 31, L547-L552	1.3	16
103	On the 3p-subshell photoabsorption spectra of iron-group ions: the case of Mn2+. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2005**, 38, L1-L8	1.3	15
102	The evolution of 4d photoabsorption in Sb with increasing ionization. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2000**, 33, 1383-1401	1.3	15
101	Angular distribution and circular dichroism in the two-colour XUV+NIR above-threshold ionization of helium. *Journal of Modern Optics*, **2016**, 63, 367-382	1.1	14
100	Absorption spectroscopy of an expanding laser produced lithium plasma in the extreme ultraviolet using the Dual Laser Plasma technique. *Applied Surface Science*, **1998**, 127-129, 686-691	6.7	14

99	Photoionization experiments with the ultrafast EUV laser 'FLASH' free electron laser in Hamburg. *Journal of Physics: Conference Series*, **2007**, 88, 012057	0.3	14
98	Angle resolved photoelectron spectroscopy of two-color XUV–NIR ionization with polarization control. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2016**, 49, 165003	1.3	13
97	Femtosecond profiling of shaped x-ray pulses. *New Journal of Physics*, **2018**, 20, 033008	2.9	12
96	4p-5s transitions in AgXI to AgXIV in a laser-produced plasma. *Journal of Physics B: Atomic and Molecular Physics*, **1984**, 17, 345-353		12
95	Enhanced two photon absorption cross section and optical nonlinearity of a quasi-octupolar molecule. *Journal of Photochemistry and Photobiology A: Chemistry*, **2016**, 314, 60-65	4.7	11
94	Time resolved Nomarski interferometery of laser produced plasma plumes. *Applied Surface Science*, **2009**, 255, 5167-5171	6.7	11
93	Dichroism in the above-threshold two-colour photoionization of singly charged neon. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 085601	1.3	11
92	XUV photoabsorption of laser generated Au vapour. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1995**, 28, 181-190	1.3	11
91	New experiments in photoabsorption studies of singly and multiply charged ions. *Journal of Electron Spectroscopy and Related Phenomena*, **1996**, 79, 283-288	1.7	11
90	The 1s absorption spectrum of neutral and singly ionized boron. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1992**, 25, 3963-3970	1.3	11
89	4s-4p transitions in Ge-like Ru and Rh. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1990**, 23, L239-L245	1.3	11
88	Clocking Auger electrons. *Nature Physics*, **2021**, 17, 512-518	16.2	11
87	Optical diagnostics of laser-produced aluminium plasmas under water. *Applied Physics B: Lasers and Optics*, **2017**, 123, 1	1.9	10
86	The 5d photoabsorption spectra of Pb III and Bi IV. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2008**, 41, 205001	1.3	10
85	4d photoabsorption spectra of Indium (In III–In IV). *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2006**, 39, 773-782	1.3	10
84	4d photoabsorption spectra of Sn II and Sn IV in the 30–45 eV region. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2005**, 38, 4247-4257	1.3	10
83	The XUV photoabsorption spectrum of uranium vapour. *Journal of Physics B: Atomic and Molecular Physics*, **1987**, 20, L201-L205		10
82	XUV emission from uranium plasmas; the identification of U XIII and U XV. *Journal of Physics B: Atomic and Molecular Physics*, **1984**, 17, 2169-2176		10

81	Fragmentation of neutral amino acids and small peptides by intense, femtosecond laser pulses. *Journal of the American Society for Mass Spectrometry*, **2013**, 24, 1366-75	3.5	9
80	Two-color experiments in the gas phase at FLASH. *Journal of Electron Spectroscopy and Related Phenomena*, **2010**, 181, 111-115	1.7	9
79	Short-pulse, extreme-ultraviolet continuum emission from a table-top laser plasma light source. *Applied Physics Letters*, **1997**, 70, 1497-1499	3.4	9
78	EUV photoabsorption spectra of Cd II and Cd III. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2005**, 38, 83-88	1.3	9
77	The photoabsorption spectrum of laser-generated Li+in the 60-190 eV photon energy range. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2000**, 33, 5203-5214	1.3	9
76	Comparison between Intensified Photodiode Array and Charge-Coupled Device Detectors in the Vacuum Ultraviolet for Laser-Induced Plasma Spectroscopy. *Applied Spectroscopy*, **2001**, 55, 1430-1433	3.1	9
75	Measurement and analysis of the photoabsorption spectra of laser-produced Al and in the region of 2p-subshell excitation. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1998**, 31, 677-688	1.3	9
74	The 3p photoabsorption spectra of K II and Ca III. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1995**, 28, 4771-4779	1.3	9
73	Features in the ion emission of Cu, Al, and C plasmas produced by ultrafast laser ablation. *Physics of Plasmas*, **2015**, 22, 123112	2.1	8
72	Target geometrical effects on the stagnation layer formed by colliding a pair of laser produced copper plasmas. *Physics of Plasmas*, **2015**, 22, 093506	2.1	8
71	Double ionization of atomic negative ions in an intense laser field. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2003**, 36, L235-L240	1.3	8
70	Vacuum-ultraviolet photoabsorption imaging system for laser plasma plume diagnostics. *Review of Scientific Instruments*, **2003**, 74, 2992-2998	1.7	8
69	Application of a picosecond laser plasma continuum light source to a dual-laser plasma photoabsorption experiment. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2000**, 33, 1159-1168	1.3	8
68	Photoabsorption and photoion spectroscopy of atomic uranium in the region of 6p and 5d excitations. *Physical Review A*, **2000**, 61,	2.6	8
67	Two-electron processes in multiple ionization under strong soft-x-ray radiation. *Physical Review A*, **2016**, 94,	2.6	7
66	Particle diagnostics of a ZnO laser ablation plume for nanostructured material deposition. *Applied Surface Science*, **2009**, 255, 5338-5341	6.7	7
65	Absolute photoionization cross-section measurements of the Kr I isoelectronic sequence. *Physical Review A*, **2007**, 75,	2.6	7
64	New dual laser plasma investigations of inner-shell excitations. *Journal of Electron Spectroscopy and Related Phenomena*, **1999**, 101-103, 161-166	1.7	7

63	XUV emission from thorium plasmas; the identification of Th XI and Th XIII. *Journal of Physics B: Atomic and Molecular Physics*, **1986**, 19, L651-L656		7
62	Time resolved anisotropic emission from an aluminium laser produced plasma. *Physics of Plasmas*, **2017**, 24, 013105	2.1	6
61	EUV photoabsorption of laser produced tellurium plasmas: Te III-Te IV. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2005**, 38, 2895-2909	1.3	6
60	4p-5s transitions in Cd XII, Cd XIII and Cd XIV. *Journal of Physics B: Atomic and Molecular Physics*, **1984**, 17, 4477-4483		6
59	ULTRAVIOLET ABSORPTION OF REFRACTORY ELEMENTS BY A DUAL LASER PLASMA METHOD. *Journal De Physique Colloque*, **1988**, 49, C1-243-C1-246		6
58	Detection limits of organic compounds achievable with intense, short-pulse lasers. *Analyst, The*, **2015**, 140, 4270-6	5	5
57	The Laser-assisted photoelectric effect of He, Ne, Ar and Xe in intense extreme ultraviolet and infrared laser fields. *Journal of Modern Optics*, **2016**, 63, 358-366	1.1	5
56	Two-color XUV+NIR femtosecond photoionization of neon in the near-threshold region. *New Journal of Physics*, **2019**, 21, 063034	2.9	5
55	The Effect of Wedge Angle on the Evolution of a Stagnation Layer in a Colliding Plasma Experiment. *Journal of Physics: Conference Series*, **2014**, 548, 012036	0.3	5
54	Characterization of a high-pressure laser ion source with dc and pulsed extraction. *Plasma Sources Science and Technology*, **2010**, 19, 065007	3.5	5
53	Growth and field emission properties of ZnO nanostructures deposited by a novel pulsed laser ablation source on silicon substrates. *Ultramicroscopy*, **2009**, 109, 399-402	3.1	5
52	Measurement of the XUV photoabsorption spectra of atomic zinc and its ions :n= 1, 2, and 3 in the region of 3p-subshell excitation. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1997**, 30, 4801-4812	1.3	5
51	Theoretical and experimental study of the extreme ultraviolet photoabsorption spectrum of triply ionized yttrium. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2004**, 37, 4663-4680	1.3	5
50	Instrumental contributions to the time-resolved optogalvanic signal in a hollow cathode discharge. *Journal Physics D: Applied Physics*, **2005**, 38, 2237-2243	3	5
49	Vacuum-ultraviolet absorption spectrum of the Rb+ion in a laser-generated plasma. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2001**, 34, L651-L656	1.3	5
48	Comparative study of the expansion dynamics of Ga+ ions in the laser ablation of Ga and GaN using time-resolved extreme UV absorption spectroscopy. *Applied Surface Science*, **2000**, 168, 150-153	6.7	5
47	Observation of a 6p-6d giant dipole resonance in the VUV photoabsorption spectrum of a laser-produced thorium plasma. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1999**, 32, L285-L290	1.3	5
46	The 5d - 6p EUV photoabsorption spectra of Pb II and Bi III: evidence of excited states. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2020**, 53, 115001	1.3	4

45	Atomic mass dependent electrostatic diagnostics of colliding laser plasma plumes. *Physics of Plasmas*, **2013**, 20, 093106	2.1	4
44	Theoretical study of photoionization of the isoelectronic sequence Rb+, Sr2+, and Y3+. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2007**, 102, 149-158	0.7	4
43	The 4p-subshell photoabsorption spectrum of singly ionized molybdenum. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2003**, 36, 2611-2628	1.3	4
42	Vacuum-ultraviolet resonant photoabsorption imaging of laser produced plasmas. *Journal of Applied Physics*, **2000**, 88, 4953-4960	2.5	4
41	Determination of Ca 2p ionization thresholds by high-resolution photoelectron spectroscopy. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1998**, 31, L289-L296	1.3	4
40	4s to 4p transitions in As I like Ru XII, Rh XIII and Pd XIV. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1990**, 23, L575-L581	1.3	4
39	Heterogeneous (Cu-Ti) colliding plasma dynamics. *Physics of Plasmas*, **2016**, 23, 103516	2.1	4
38	Perveance and ion bunch structure from a compact, high-pressure laser ion source. *Physics of Plasmas*, **2010**, 17, 123115	2.1	3
37	VUV and soft x-ray emission from pre-plasmas irradiated with intense picosecond and femtosecond pulses **2003**,		3
36	Research and development topics in Analytical Chemistry. *Analytical Proceedings*, **1992**, 29, 45		3
35	Two- and Three-Photon Partial Photoionization Cross Sections of Li+, Ne8+ and Ar16+ under XUV Radiation. *Applied Sciences (Switzerland)*, **2017**, 7, 294	2.6	2
34	Identification of 4s4p transitions in Ru x, Ru xi, Rh xi, Rh xii, Pd xii, and Pd xiii. *Journal of the Optical Society of America B: Optical Physics*, **1991**, 8, 1369	1.7	2
33	4p-5sTransitions in In XIII,In XIV and In XV. *Physica Scripta*, **1986**, 33, 226-228	2.6	2
32	4s24p4-4s24p35s transitions in Ru XI, Rh XII and Pd XIII. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1988**, 21, 2399-2406	1.3	2
31	Recombination contributions to the anisotropic emission from a laser produced copper plasma. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2020**, 53, 065701	1.3	2
30	Soft x-ray photoabsorption spectra of photoionized CH4and CO2plasmas. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2020**, 53, 045701	1.3	2
29	The Effect of Confinement Angle on Self-Colliding Aluminium Laser Plasmas Using Spectrally Resolved Fast Imaging. *Materials*, **2020**, 13,	3.5	1
28	Oxygen K-shell photoabsorption spectra of photoionized CO2plasmas. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2020**, 53, 105701	1.3	1

27	Comparison of the polarisation of line and continuum emission in a laser produced plasma. *Journal of Physics: Conference Series*, **2017**, 810, 012063	0.3	1
26	Photoabsorption studies of some closed-shell ions in the La isonuclear sequence. *Physical Review A*, **2015**, 91,	2.6	1
25	Charged particle dynamics in a high-pressure laser ion source. *Journal Physics D: Applied Physics*, **2011**, 44, 135204	3	1
24	3p photoabsorption spectra of Mn2+ and Mn3+. *Physical Review A*, **2007**, 75,	2.6	1
23	Tracking ground state Ba+ ions in an expanding laser plasma plume using time-resolved vacuum ultraviolet photoionization imaging. *Laser and Particle Beams*, **2004**, 22, 207-213	0.9	1
22	Photoabsorption spectra of a laser produced Sn plasma **2005**,		1
21	Measurements of extreme UV yields from Nd-YAG plasmas using a multilayer monochromator. *Journal of Electron Spectroscopy and Related Phenomena*, **1996**, 80, 295-298	1.7	1
20	Ionisation and Fragmentation of Small Biomolecules with Femtosecond Laser Pulses. *Springer Proceedings in Physics*, **2012**, 309-312	0.2	1
19	The 5d-6p VUV Photoabsorption Spectrum of Bi+. *Atoms*, **2020**, 8, 55	2.1	1
18	X-rays put molecules into a spin. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 4772-4773	11.5	1
17	Near-threshold two-photon double ionization of Kr in the vacuum ultraviolet. *Physical Review A*, **2021**, 103,	2.6	1
16	Line plasma versus point plasma VUV LIBS for the detection of carbon in steel: a comparative study. *Journal of Analytical Atomic Spectrometry*, **2022**, 37, 883-889	3.7	1
15	Deposition of nanocomposite Cu TiO2 using heterogeneous colliding plasmas. *Applied Physics B: Lasers and Optics*, **2018**, 124, 1	1.9	0
14	Laser double optical resonance excitation-ionization of Mo with optogalvanic detection. *Physica Scripta*, **2022**, 97, 024004	2.6	0
13	Ionization dissociation of methane in ultrashort 400 nm and 800 nm laser fields. *Chemical Physics Letters*, **2021**, 775, 138687	2.5	0
12	A simple, low cost interferometric autocorrelator with no moving parts. *Measurement Science and Technology*, **2016**, 27, 117003	2	0
11	Space integrated, time resolved studies of the formation of aluminium (II) oxide in laser produced plasmas. *Journal of Physics: Conference Series*, **2019**, 1289, 012009	0.3	
10	Colliding laser plasmas formed in air. *Journal of Physics: Conference Series*, **2019**, 1289, 012032	0.3	

List of Publications

9	Ion energy distribution from colliding laser plasmas. *Journal of Physics: Conference Series*, **2019**, 1289, 012033	0.3
8	A compact Fourier transform spectrometer with no moving parts for laser induced breakdown spectroscopy. *Journal of Physics: Conference Series*, **2019**, 1289, 012047	0.3
7	Aluminium thin films depth profiling using LIBS. *Journal of Physics: Conference Series*, **2019**, 1289, 012043	0.3
6	On the Conductance of the Gas Discharge Plasma at Space Anisotropic Excitation. *Contributions To Plasma Physics*, **2015**, 55, 538-544	1.4
5	Modification of Auger decay of Neon under strong X-ray radiation. *Journal of Physics: Conference Series*, **2012**, 388, 032070	0.3
4	Above-threshold two-colour ionization signal of singly charged neon. *Journal of Physics: Conference Series*, **2012**, 388, 032053	0.3
3	Atomic photoionization in weak and strong two-color radiation fields. *Journal of Physics: Conference Series*, **2009**, 194, 032035	0.3
2	Applications of laser plasmas in XUV photoabsorption spectroscopy **1991**, 1503, 406	
1	Reply to comment on The 5d -6p photoabsorption spectra of Pb II and Bi III: evidence of excited states by A. N. Ryabtsev. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2021**, 54, 068001	1.3