

# Peter Balling

## List of Publications by Year in descending order

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158  
papers

3,866  
citations

201674

27  
h-index

144013

57  
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159  
all docs

159  
docs citations

159  
times ranked

3050  
citing authors

#	ARTICLE	IF	CITATIONS
1	Signal requirements for 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012033.	0.4	3
2	Synthesis and structural characterization of Al <sub>2</sub> O <sub>3</sub> nanoparticles: Towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012023.	0.4	2
3	Impact of curing conditions on basic dosimetric properties of silicone-based radiochromic dosimeters for photon and proton irradiation. Acta Oncologica, 2022, 61, 264-268.	1.8	10
4	RSC: Optically stimulated emission of LiF:Mg, Cu, P - towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012026.	0.4	1
5	A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry. Nano Letters, 2022, 22, 1566-1572.	9.1	15
6	Optically stimulated luminescence in state-of-the-art LYSO:Ce scintillators enables high spatial resolution 3D dose imaging. Scientific Reports, 2022, 12, 8301.	3.3	9
7	Empirical quenching correction in radiochromic silicone-based three-dimensional dosimetry of spot-scanning proton therapy. Physics and Imaging in Radiation Oncology, 2021, 18, 11-18.	2.9	11
8	Recombination lifetimes of LiF:Mg,Cu,P for pulsed optically stimulated luminescence. Journal of Luminescence, 2021, 234, 117924.	3.1	8
9	Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 6562-6573.	5.1	11
10	Laser Coupling and Relaxation of the Absorbed Energy: Metals, Semiconductors, and Dielectrics. , 2021, 3-59.		0
11	Improving the efficiency of upconversion by light concentration using nanoparticle design. Journal Physics D: Applied Physics, 2020, 53, 073001.	2.8	9
12	Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. ACS Applied Energy Materials, 2020, 3, 253-259.	5.1	12
13	Optical characterization of LiF:Mg,Cu,P “ Towards 3D optically stimulated luminescence dosimetry. Radiation Measurements, 2020, 138, 106390.	1.4	16
14	Improving Upconversion Efficiency by Photon Management in Self-Assembled Core/Shell Nanocrystal Films. Journal of Physical Chemistry C, 2020, 124, 22357-22365.	3.1	4
15	Dose response of three-dimensional silicone-based radiochromic dosimeters for photon irradiation in the presence of a magnetic field. Physics and Imaging in Radiation Oncology, 2020, 16, 81-84.	2.9	7
16	Dose-response of deformable radiochromic dosimeters for spot scanning proton therapy. Physics and Imaging in Radiation Oncology, 2020, 16, 134-137.	2.9	15
17	Nanomolded buried light-scattering (BLIS) back-reflectors using dielectric nanoparticles for light harvesting in thin-film silicon solar cells. EPJ Photovoltaics, 2020, 11, 2.	1.6	2
18	Strongly enhanced upconversion in trivalent erbium ions by tailored gold nanostructures: Toward high-efficient silicon-based photovoltaics. Solar Energy Materials and Solar Cells, 2020, 208, 110406.	6.2	14

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19	Unveiling nonlinear regimes of light amplification in fused silica with femtosecond imaging spectroscopy. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
20	Revealing regimes of nonlinear light amplification in dielectrics. , 2020, , .		0
21	Laser Coupling and Relaxation of the Absorbed Energy: Metals, Semiconductors, and Dielectrics. , 2020, , 1-58.		4
22	Unveiling nonlinear light amplification in dielectrics. , 2020, , .		0
23	Transient optical properties of highly excited dielectric materials: Apparent birefringence and delayed reflectivity increase. <i>Physical Review Research</i> , 2020, 2, .	3.6	8
24	Enhanced upconversion via plasmonic near-field effects: role of the particle shape. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 035004.	2.2	8
25	Analytical model for the intensity dependence of 1500â€%nm to 980â€%nm upconversion in Er <sup>3+</sup> : A new tool for material characterization. <i>Journal of Applied Physics</i> , 2019, 125, 043106.	2.5	10
26	Femtosecond-laser-induced modifications of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> thin films: Permanent optical change without amorphization. <i>Applied Surface Science</i> , 2019, 476, 221-231.	6.1	8
27	Resonant Plasmon-Enhanced Upconversion in Monolayers of Coreâ€“Shell Nanocrystals: Role of Shell Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1209-1218.	8.0	17
28	Near-field marking of gold nanostars by ultrashort pulsed laser irradiation: experiment and simulations. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	6
29	Laser amplification in excited dielectrics. <i>Nature Physics</i> , 2018, 14, 74-79.	16.7	36
30	Upconversion luminescence from magnetron-sputtered Er <sup>3+</sup> -doped TiO <sub>2</sub> films: Influence of deposition- and annealing temperatures and correlation to decay times. <i>Journal of Applied Physics</i> , 2018, 124, 163105.	2.5	8
31	Improving the efficiency of solar cells by upconverting sunlight using field enhancement from optimized nano structures. <i>Optical Materials</i> , 2018, 83, 279-289.	3.6	21
32	Dose regularization via filtering and projection: An open-source code for optimization-based proximity-effect-correction for nanoscale lithography. <i>Microelectronic Engineering</i> , 2018, 199, 52-57.	2.4	10
33	Enhanced upconversion in one-dimensional photonic crystals: a simulation-based assessment within realistic material and fabrication constraints. <i>Optics Express</i> , 2018, 26, 7537.	3.4	17
34	Field-enhancing photonic devices utilizing waveguide coupling and plasmonics - a selection rule for optimization-based design. <i>Optics Express</i> , 2018, 26, A788.	3.4	4
35	Chemically tuned linear energy transfer dependent quenching in a deformable, radiochromic 3D dosimeter. <i>Physics in Medicine and Biology</i> , 2017, 62, N73-N89.	3.0	17
36	Combining light-harvesting with detachability in high-efficiency thin-film silicon solar cells. <i>Nanoscale</i> , 2017, 9, 7169-7178.	5.6	2

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37	Determining the mechanical properties of a radiochromic silicone-based 3D dosimeter. <i>Physics in Medicine and Biology</i> , 2017, 62, 5612-5622.	3.0	19
38	Efficient light-trapping with quasi-periodic uniaxial nanowrinkles for thin-film silicon solar cells. <i>Nano Energy</i> , 2017, 35, 341-349.	16.0	16
39	Topology optimized gold nanostrips for enhanced near-infrared photon upconversion. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	13
40	OC-0062: Correcting for linear energy transfer dependent quenching in 3D dosimetry of proton therapy. <i>Radiotherapy and Oncology</i> , 2017, 123, S29-S30.	0.6	0
41	SP-0414: Experience with the ESTRO mobility grant; proton irradiation of a 3D dosimeter. <i>Radiotherapy and Oncology</i> , 2017, 123, S218.	0.6	0
42	First 3D measurements of proton beams in a deformable silicone-based dosimeter. <i>Journal of Physics: Conference Series</i> , 2017, 847, 012021.	0.4	8
43	Simultaneous time-space resolved reflectivity and interferometric measurements of dielectrics excited with femtosecond laser pulses. <i>Physical Review B</i> , 2017, 95, .	3.2	44
44	Particle-particle interactions in large, sparse arrays of randomly distributed plasmonic metal nanoparticles: a two-particle model. <i>Optics Express</i> , 2017, 25, 19354.	3.4	5
45	Three-dimensional radiation dosimetry based on optically-stimulated luminescence. <i>Journal of Physics: Conference Series</i> , 2017, 847, 012044.	0.4	14
46	Influence of TiO <sub>2</sub> host crystallinity on Er <sup>3+</sup> light emission. <i>Optical Materials Express</i> , 2016, 6, 1664.	3.0	19
47	Technical Note: Improving proton stopping power ratio determination for a deformable silicone-based 3D dosimeter using dual energy CT. <i>Medical Physics</i> , 2016, 43, 2780-2784.	3.0	11
48	Plasmonically enhanced upconversion of 1500nm light via trivalent Er in a TiO <sub>2</sub> matrix. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	19
49	Modeling the transient optical parameters in laser-excited band gap materials. <i>Optical Engineering</i> , 2016, 56, 011015.	1.0	15
50	EP-1833: Improved proton stopping power ratio estimation for a deformable 3D dosimeter using Dual Energy CT. <i>Radiotherapy and Oncology</i> , 2016, 119, S860-S861.	0.6	0
51	PO-0794: First proton irradiation experiments with a deformable radiochromic 3D dosimeter. <i>Radiotherapy and Oncology</i> , 2016, 119, S373-S374.	0.6	0
52	PO-0829: Determining the mechanical properties of a radiochromic deformable silicone-based 3D dosimeter. <i>Radiotherapy and Oncology</i> , 2016, 119, S392-S393.	0.6	0
53	Novel back-reflector architecture with nanoparticle based buried light-scattering microstructures for improved solar cell performance. <i>Nanoscale</i> , 2016, 8, 12035-12046.	5.6	10
54	Probing spatial properties of electronic excitation in water after interaction with temporally shaped femtosecond laser pulses: Experiments and simulations. <i>Applied Surface Science</i> , 2016, 374, 235-242.	6.1	26

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55	Plasmonically Enhanced Upconversion of 1500 nm Light in Er <sup>3+</sup> Doped TiO <sub>2</sub> . , 2016, , .		0
56	Optimizing Plasmonically Enhanced Upconversion. Energy Procedia, 2015, 77, 478-486.	1.8	7
57	A new dosimeter formulation for deformable 3D dose verification. Journal of Physics: Conference Series, 2015, 573, 012067.	0.4	22
58	Light emission from silicon with tin-containing nanocrystals. AIP Advances, 2015, 5, .	1.3	8
59	Up-conversion enhancement in Er <sup>3+</sup> doped TiO <sub>2</sub> through plasmonic coupling: Experiments and finite-element modeling. Applied Physics Letters, 2015, 106, 053101.	3.3	18
60	Generation of subsurface voids and a nanocrystalline surface layer in femtosecond laser irradiation of a single-crystal Ag target. Physical Review B, 2015, 91, .	3.2	101
61	Eliminating the dose-rate effect in a radiochromic silicone-based 3D dosimeter. Physics in Medicine and Biology, 2015, 60, 5557-5570.	3.0	26
62	Short-pulse laser excitation of quartz: experiments and modelling of transient optical properties and ablation. Applied Physics A: Materials Science and Processing, 2015, 120, 1221-1227.	2.3	17
63	Ultrashort-pulse laser excitation and damage of dielectric materials: experiments and modeling. , 2015, , .		2
64	Directly patterned TiO <sub>2</sub> nanostructures for efficient light harvesting in thin film solar cells. Journal Physics D: Applied Physics, 2015, 48, 365101.	2.8	9
65	Probing ultrashort-pulse laser excitation of sapphire: From the initial carrier creation to material ablation. Europhysics Letters, 2014, 105, 47001.	2.0	24
66	Modeling short-pulse laser excitation of dielectric materials. Applied Physics A: Materials Science and Processing, 2014, 117, 7-12.	2.3	18
67	Investigation of nanoscale structures by small-angle X-ray scattering in a radiochromic dosimeter. RSC Advances, 2014, 4, 9152.	3.6	3
68	Broadband Mode Converters by Femtosecond-Laser-Light Refractive-Index Tailoring. IEEE Photonics Technology Letters, 2014, 26, 1454-1457.	2.5	1
69	Determination of femtosecond-laser-induced refractive-index changes in an optical fiber from far-field measurements. Optics Letters, 2014, 39, 3398.	3.3	7
70	Femtosecond laser excitation of dielectric materials: experiments and modeling of optical properties and ablation depths. Applied Physics A: Materials Science and Processing, 2013, 110, 601-605.	2.3	25
71	Optimizing the efficiency of femtosecond-laser-written holograms. Applied Physics B: Lasers and Optics, 2013, 113, 345-349.	2.2	2
72	Femtosecond-laser ablation dynamics of dielectrics: basics and applications for thin films. Reports on Progress in Physics, 2013, 76, 036502.	20.1	325

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73	Dosimetric verification of complex radiotherapy with a 3D optically based dosimetry system: Dose painting and target tracking. <i>Acta Oncologica</i> , 2013, 52, 1445-1450.	1.8	22
74	Exploring the dose response of radiochromic dosimeters. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012036.	0.4	4
75	Feasibility study using MRI and two optical CT scanners for readout of polymer gel and Presage™. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012079.	0.4	2
76	Diffusion properties of a radiochromic hydrogel dosimeter. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012038.	0.4	1
77	Femtosecond refractive-index tailoring of an optical fiber and phase retrieval from far-field measurements. , 2013, , .		0
78	Temperature and temporal dependence of the optical response for a radiochromic dosimeter. <i>Medical Physics</i> , 2012, 39, 7232-7236.	3.0	18
79	Femtosecond laser excitation of dielectric materials: Optical properties and ablation. , 2012, , .		3
80	Measurement of effective refractive-index differences in a few-mode fiber by axial fiber stretching. <i>Optics Express</i> , 2012, 20, 18646.	3.4	21
81	Luminescence decay dynamics of self-assembled germanium islands in silicon. <i>Applied Physics Letters</i> , 2011, 98, 093101.	3.3	14
82	Interaction between Au nanoparticles and Er <sup>3+</sup> ions in a TiO <sub>2</sub> matrix: Up-conversion of infrared light. <i>Energy Procedia</i> , 2011, 10, 111-116.	1.8	8
83	High-resolution computer-generated reflection holograms with three-dimensional effects written directly on a silicon surface by a femtosecond laser. <i>Optics Express</i> , 2011, 19, 3434.	3.4	10
84	Temperature dependence of the dose response for a solid-state radiochromic dosimeter during irradiation and storage. <i>Medical Physics</i> , 2011, 38, 2806-2811.	3.0	18
85	Characterization of the optical properties and stability of Presage™ following irradiation with photons and carbon ions. <i>Acta Oncologica</i> , 2011, 50, 829-834.	1.8	20
86	Ultra-short pulse laser ablation of copper, silver and tungsten: experimental data and two-temperature model simulations. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 447-453.	2.3	99
87	Testing the permeability and corrosion resistance of micro-mechanically interlocked joints. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 975-979.	2.3	6
88	Auger-decay dynamics of germanium nano-islands in silicon. <i>Nanotechnology</i> , 2011, 22, 435401.	2.6	6
89	Single-shot ultrashort-pulse laser ablation of single-crystalline metal samples. , 2011, , .		0
90	Material swelling as the first step in the ablation of metals by ultrashort laser pulses. <i>Physical Review B</i> , 2011, 84, .	3.2	62

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91	Ultrashort pulse laser ablation of dielectric materials: Experiments and modeling. , 2011, , .		0
92	Er sensitization by a thin Si layer: Interaction-distance dependence. Physical Review B, 2011, 84, .	3.2	6
93	Computer-generated holograms written directly on silicon. , 2011, , .		0
94	SU-C-224-01: 3D Dosimetry with Gels and Optical Tomography of Dynamic MLC Tracking Based on an Electromagnetic Transponder System. Medical Physics, 2011, 38, 3365-3365.	3.0	0
95	Effect of irradiation and storage temperature on PRESAGE <sup>TM</sup> dose response. Journal of Physics: Conference Series, 2010, 250, 012100.	0.4	2
96	Fundamentals of femtosecond laser ablation of dielectric materials. , 2010, , .		0
97	Ultra-short pulse laser ablation of metals: threshold fluence, incubation coefficient and ablation rates. Applied Physics A: Materials Science and Processing, 2010, 101, 97-101.	2.3	179
98	Single-shot ablation of sapphire by ultrashort laser pulses. Applied Physics A: Materials Science and Processing, 2010, 101, 279-282.	2.3	26
99	Ultra-high-strength micro-mechanical interlocking by injection molding into laser-structured surfaces. International Journal of Adhesion and Adhesives, 2010, 30, 485-488.	2.9	65
100	Photoemission with high-order harmonics: A tool for time-resolved core-level spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 615, 114-126.	1.6	9
101	Nonlinear Frequency Generation of High-Power Polarisation Vortices in Optical Fibers. , 2010, , .		1
102	Nonlinear generation of broadband polarisation vortices. Optics Express, 2010, 18, 23212.	3.4	14
103	Computer-Generated Holograms Written Directly on a Silicon Surface Including 3D and Rainbow Effects. , 2010, , .		0
104	Femtosecond Laser Ablation Rates of Dielectric Materials: Experiments and Modeling. , 2010, , .		0
105	Enhanced Resolution in Nonlinear Microscopy Using the LP02 mode of an optical fiber. , 2010, , .		1
106	Thermalization of exciton states in silicon nanocrystals. Applied Physics Letters, 2009, 95, 183107.	3.3	4
107	Adsorbate reactivity and thermal mobility from simple modeling of high-resolution core-level spectra: application to O/Al(111). Journal of Physics Condensed Matter, 2009, 21, 265003.	1.8	3
108	Metallic nanosieves formed by ultra-short-pulse laser ablation. Applied Surface Science, 2009, 255, 4246-4249.	6.1	2

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109	Bending diamonds by femtosecond laser ablation. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2952-2957.	1.4	27
110	Laser structuring of metal surfaces: Micro-mechanical interlocking. Applied Surface Science, 2009, 255, 5591-5594.	6.1	36
111	Modeling ultrashort-pulse laser ablation of dielectric materials. Physical Review B, 2009, 79, .	3.2	111
112	THE PROPERTIES AND STABILITY OF PRESAGE FOLLOWING IRRADIATION WITH PHOTONS AND CARBON IONS IN THE OPTICAL SPECTRUM. Radiotherapy and Oncology, 2009, 92, S52.	0.6	0
113	Calculus removal on a root cement surface by ultrashort laser pulses. Applied Surface Science, 2008, 254, 1895-1899.	6.1	17
114	Short-pulse metal structuring: a method for modifying surface adhesion properties. Proceedings of SPIE, 2008, , .	0.8	4
115	Laser heating of metals: The question of reflectivity. , 2007, , .		0
116	Enhanced mode coupling by local structuring of optical fibre cores with 800 nm femtosecond pulses. , 2007, , .		0
117	Doppler tuning vuv spectroscopy of D <sup>+</sup> over an extended photon-energy range around threshold. Physical Review A, 2007, 76, .	2.5	4
118	Short-pulse ablation rates and the two-temperature model. Applied Surface Science, 2007, 253, 6347-6352.	6.1	126
119	MICRO AND NANO-MACHINING WITH ULTRASHORT LASER PULSES: FROM BASIC SCIENCE TO THE REAL WORLD. , 2007, , 257-270.		1
120	Formation of an extended nanostructured metal surface by ultra-short laser pulses: single-pulse ablation in the high-fluence limit. Applied Physics A: Materials Science and Processing, 2006, 84, 207-213.	2.3	35
121	Deep drilling of metals with ultrashort laser pulses: A two-stage process. Journal of Applied Physics, 2006, 99, 093101.	2.5	27
122	Nanostructuring of surfaces by ultra-short laser pulses. Applied Physics A: Materials Science and Processing, 2005, 80, 493-496.	2.3	22
123	Perspectives for pulsed positrons. Nuclear Instruments & Methods in Physics Research B, 2004, 221, 200-205.	1.4	23
124	Thermal lensing in pulsed laser amplifiers: an analytical model. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1479.	2.1	28
125	Ultrashort-pulse-laser ablation of metals: Significant changes in ablation rates with depth. Springer Series in Chemical Physics, 2003, , 675-677.	0.2	5
126	Ultrashort-pulse-laser ablation of metals: Significant changes in ablation rates with depth. , 2002, , .		0



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127	On-the-fly depth profiling during ablation with ultrashort laser pulses: A tool for accurate micromachining and laser surgery. Applied Physics Letters, 2001, 79, 884-886.	3.3	20
128	Electron cooling of $D^{+}$ at the ASTRID storage ring. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 441, 150-153.	1.6	1
129	High-Resolution Vacuum-Ultraviolet Spectroscopy of an Electron-Cooled $D^{+}$ Beam. Physical Review Letters, 2000, 85, 4028-4031.	7.8	6
130	High-resolution VUV spectroscopy of $H^{+}$ in the region near the $H(n=2)$ threshold. Physical Review A, 2000, 61, .	2.5	33
131	Ultrafast Structural Dynamics in InSb Probed by Time-Resolved X-Ray Diffraction. Physical Review Letters, 1999, 83, 336-339.	7.8	184
132	Two-photon detachment of $H^{+}$ in the vicinity of the one-photon detachment threshold. Physical Review A, 1999, 59, R3154-R3157.	2.5	18
133	Negative ion spectroscopy with stored $H^{+}$ ions. , 1999, , .		0
134	Ultrafast Structural Dynamics in InSb Probed by Time-Resolved X-ray Diffraction. Springer Series in Chemical Physics, 1998, , 401-403.	0.2	2
135	Structure and dynamics of the negative alkaline-earth ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 3317-3332.	1.5	35
136	Resonance ionization spectroscopy of negative ions. , 1997, , .		0
137	Positions and Isotope Shifts of the $H^{+}(1P)$ Dipole Resonances below the $H(n=2)$ Threshold. Physical Review Letters, 1997, 79, 4770-4773.	7.8	39
138	Interaction of relativistic electrons with ultrashort laser pulses: generation of femtosecond X-rays and microprobing of electron beams. IEEE Journal of Quantum Electronics, 1997, 33, 1925-1934.	1.9	55
139	Structural Properties of the Negative Calcium Ion: Binding Energies and Fine-Structure Splitting. Physical Review Letters, 1996, 76, 744-747.	7.8	86
140	Vacuum Ultraviolet Spectroscopy of $H^{+}$ in a Heavy Ion Storage Ring: The Region near the $H(n=2)$ Threshold. Physical Review Letters, 1996, 77, 2905-2908.	7.8	31
141	Femtosecond X-ray Pulses at 0.4 Å Generated by 90° Thomson Scattering: A Tool for Probing the Structural Dynamics of Materials. Science, 1996, 274, 236-238.	12.6	439
142	Fine-structure measurements for negative ions: Studies of $Se^{-}$ and $Te^{-}$ . Physical Review A, 1996, 53, 3023-3028.	2.5	13
143	X-Ray Based Subpicosecond Electron Bunch Characterization Using 90° Thomson Scattering. Physical Review Letters, 1996, 77, 4182-4185.	7.8	156
144	State-selective stepwise two-photon detachment study of the ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L415-L420.	1.5	20

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145	Photodetachment study of $Ba^{-}$ ions: The influence of the first excited boron state. <i>Physical Review A</i> , 1995, 52, 2847-2851.	2.5	19
146	Resonant Ionization Spectroscopy of $Ba^{-}$ : Metastable and Stable Ions. <i>Physical Review Letters</i> , 1995, 75, 1911-1914.	7.8	70
147	Interference in climbing a quantum ladder system with frequency-chirped laser pulses. <i>Physical Review A</i> , 1994, 50, 4276-4285.	2.5	94
148	Window resonance in photodetachment of the negative silicon ion: strong interaction of the 3p continuum with the 3s to 3p shape resonance. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 3531-3539.	1.5	23
149	Spectroscopy of negative ions utilizing multiphoton detachment in a Raman coupling regime. <i>Physical Review Letters</i> , 1993, 71, 3435-3438.	7.8	15
150	Metastable-ion lifetime studies utilizing a heavy-ion storage ring: Measurements on $He^{-}$ . <i>Physical Review A</i> , 1993, 47, 890-896.	2.5	73
151	Observation of Resonant Excess Photon Detachment Via a Window Resonance in the Negative Cesium Ion. <i>NATO ASI Series Series B: Physics</i> , 1993, , 493-500.	0.2	0
152	Absolute photodetachment cross sections of $Cu^{-}$ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, L565-L571.	1.5	18
153	Multiphoton ionization of a three-electron atom: Studies with 25-keV Al beams. <i>Physical Review A</i> , 1992, 46, R1177-R1180.	2.5	6
154	Metastable ion lifetime studies utilizing a heavy-ion storage ring: Measurements on $Be^{-}$ . <i>Physical Review Letters</i> , 1992, 69, 1042-1045.	7.8	63
155	Storage-ring experiments with $10^{10}$ - $10^{11}$ -keV $Ca^{-}$ beams: Role of blackbody radiation. <i>Physical Review A</i> , 1992, 46, R1-R4.	2.5	49
156	Excess-photon detachment in the negative gold ion. <i>Physical Review Letters</i> , 1991, 67, 1731-1734.	7.8	38
157	Laser based sub-picosecond electron bunch characterization using $90^{\circ}$ Thomson scattering. , 0, , .		0
158	Ultrafast reaction dynamics on metal surfaces studied by time-resolved core-level spectroscopy. , 0, , .		0