

Peter Balling

List of Publications by Year in descending order

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158
papers

3,866
citations

201674

27
h-index

144013

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159
all docs

159
docs citations

159
times ranked

3050
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond X-ray Pulses at 0.4 Å Generated by 90° Thomson Scattering: A Tool for Probing the Structural Dynamics of Materials. <i>Science</i> , 1996, 274, 236-238.	12.6	439
2	Femtosecond-laser ablation dynamics of dielectrics: basics and applications for thin films. <i>Reports on Progress in Physics</i> , 2013, 76, 036502.	20.1	325
3	Ultrafast Structural Dynamics in InSb Probed by Time-Resolved X-Ray Diffraction. <i>Physical Review Letters</i> , 1999, 83, 336-339.	7.8	184
4	Ultra-short pulse laser ablation of metals: threshold fluence, incubation coefficient and ablation rates. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 97-101.	2.3	179
5	X-Ray Based Subpicosecond Electron Bunch Characterization Using 90° Thomson Scattering. <i>Physical Review Letters</i> , 1996, 77, 4182-4185.	7.8	156
6	Short-pulse ablation rates and the two-temperature model. <i>Applied Surface Science</i> , 2007, 253, 6347-6352.	6.1	126
7	Modeling ultrashort-pulse laser ablation of dielectric materials. <i>Physical Review B</i> , 2009, 79, .	3.2	111
8	Generation of subsurface voids and a nanocrystalline surface layer in femtosecond laser irradiation of a single-crystal Ag target. <i>Physical Review B</i> , 2015, 91, .	3.2	101
9	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
10	Interference in climbing a quantum ladder system with frequency-chirped laser pulses. <i>Physical Review A</i> , 1994, 50, 4276-4285.	2.5	94
11	Structural Properties of the Negative Calcium Ion: Binding Energies and Fine-Structure Splitting. <i>Physical Review Letters</i> , 1996, 76, 744-747.	7.8	86
12	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
13	Resonant Ionization Spectroscopy of Ba ⁺ : Metastable and Stable Ions. <i>Physical Review Letters</i> , 1995, 75, 1911-1914.	7.8	70
14	Ultra-high-strength micro-mechanical interlocking by injection molding into laser-structured surfaces. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 485-488.	2.9	65
15	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
16	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
17	Interaction of relativistic electrons with ultrashort laser pulses: generation of femtosecond X-rays and microprobing of electron beams. <i>IEEE Journal of Quantum Electronics</i> , 1997, 33, 1925-1934.	1.9	55
18	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

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19	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
20	Positions and Isotope Shifts of the $H\alpha$ (1P0) Dipole Resonances below the $H(n=2)$ Threshold. <i>Physical Review Letters</i> , 1997, 79, 4770-4773.	7.8	39
21	Excess-photon detachment in the negative gold ion. <i>Physical Review Letters</i> , 1991, 67, 1731-1734.	7.8	38
22	Laser structuring of metal surfaces: Micro-mechanical interlocking. <i>Applied Surface Science</i> , 2009, 255, 5591-5594.	6.1	36
23	Laser amplification in excited dielectrics. <i>Nature Physics</i> , 2018, 14, 74-79.	16.7	36
24	Structure and dynamics of the negative alkaline-earth ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 3317-3332.	1.5	35
25	Formation of an extended nanostructured metal surface by ultra-short laser pulses: single-pulse ablation in the high-fluence limit. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 207-213.	2.3	35
26	High-resolution VUV spectroscopy of $H\alpha$ in the region near the $H(n=2)$ threshold. <i>Physical Review A</i> , 2000, 61, .	2.5	33
27	Vacuum Ultraviolet Spectroscopy of $H\alpha$ in a Heavy Ion Storage Ring: The Region near the $H(n=2)$ Threshold. <i>Physical Review Letters</i> , 1996, 77, 2905-2908.	7.8	31
28	Thermal lensing in pulsed laser amplifiers: an analytical model. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1479.	2.1	28
29	Deep drilling of metals with ultrashort laser pulses: A two-stage process. <i>Journal of Applied Physics</i> , 2006, 99, 093101.	2.5	27
30	Bending diamonds by femtosecond laser ablation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2952-2957.	1.4	27
31	Single-shot ablation of sapphire by ultrashort laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 279-282.	2.3	26
32	Eliminating the dose-rate effect in a radiochromic silicone-based 3D dosimeter. <i>Physics in Medicine and Biology</i> , 2015, 60, 5557-5570.	3.0	26
33	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
34	Femtosecond laser excitation of dielectric materials: experiments and modeling of optical properties and ablation depths. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 601-605.	2.3	25
35	Probing ultrashort-pulse laser excitation of sapphire: From the initial carrier creation to material ablation. <i>Europhysics Letters</i> , 2014, 105, 47001.	2.0	24
36	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

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37	Perspectives for pulsed positrons. Nuclear Instruments & Methods in Physics Research B, 2004, 221, 200-205.	1.4	23
38	Nanostructuring of surfaces by ultra-short laser pulses. Applied Physics A: Materials Science and Processing, 2005, 80, 493-496.	2.3	22
39	Dosimetric verification of complex radiotherapy with a 3D optically based dosimetry system: Dose painting and target tracking. Acta Oncologica, 2013, 52, 1445-1450.	1.8	22
40	A new dosimeter formulation for deformable 3D dose verification. Journal of Physics: Conference Series, 2015, 573, 012067.	0.4	22
41	Measurement of effective refractive-index differences in a few-mode fiber by axial fiber stretching. Optics Express, 2012, 20, 18646.	3.4	21
42	Improving the efficiency of solar cells by upconverting sunlight using field enhancement from optimized nano structures. Optical Materials, 2018, 83, 279-289.	3.6	21
43	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
44	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
45	Characterization of the optical properties and stability of Presage [®] following irradiation with photons and carbon ions. Acta Oncologica, 2011, 50, 829-834.	1.8	20
46	Photodetachment study of B ⁺ ions: The influence of the first excited boron state. Physical Review A, 1995, 52, 2847-2851.	2.5	19
47	Influence of TiO ₂ host crystallinity on Er ³⁺ light emission. Optical Materials Express, 2016, 6, 1664.	3.0	19
48	Plasmonically enhanced upconversion of 1500 nm light via trivalent Er in a TiO ₂ matrix. Applied Physics Letters, 2016, 109, .	3.3	19
49	Determining the mechanical properties of a radiochromic silicone-based 3D dosimeter. Physics in Medicine and Biology, 2017, 62, 5612-5622.	3.0	19
50	Absolute photodetachment cross sections of Cu-. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, L565-L571.	1.5	18
51	Two-photon detachment of H ⁺ in the vicinity of the one-photon detachment threshold. Physical Review A, 1999, 59, R3154-R3157.	2.5	18
52	Temperature dependence of the dose response for a solid-state radiochromic dosimeter during irradiation and storage. Medical Physics, 2011, 38, 2806-2811.	3.0	18
53	Temperature and temporal dependence of the optical response for a radiochromic dosimeter. Medical Physics, 2012, 39, 7232-7236.	3.0	18
54	Modeling short-pulse laser excitation of dielectric materials. Applied Physics A: Materials Science and Processing, 2014, 117, 7-12.	2.3	18

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55	Up-conversion enhancement in Er ³⁺ doped TiO ₂ through plasmonic coupling: Experiments and finite-element modeling. Applied Physics Letters, 2015, 106, 053101.	3.3	18
56	Calculus removal on a root cement surface by ultrashort laser pulses. Applied Surface Science, 2008, 254, 1895-1899.	6.1	17
57	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
58	Chemically tuned linear energy transfer dependent quenching in a deformable, radiochromic 3D dosimeter. Physics in Medicine and Biology, 2017, 62, N73-N89.	3.0	17
59	Enhanced upconversion in one-dimensional photonic crystals: a simulation-based assessment within realistic material and fabrication constraints. Optics Express, 2018, 26, 7537.	3.4	17
60	Resonant Plasmon-Enhanced Upconversion in Monolayers of Core-Shell Nanocrystals: Role of Shell Thickness. ACS Applied Materials & Interfaces, 2019, 11, 1209-1218.	8.0	17
61	Efficient light-trapping with quasi-periodic uniaxial nanowrinkles for thin-film silicon solar cells. Nano Energy, 2017, 35, 341-349.	16.0	16
62	Optical characterization of LiF:Mg,Cu,P Towards 3D optically stimulated luminescence dosimetry. Radiation Measurements, 2020, 138, 106390.	1.4	16
63	Spectroscopy of negative ions utilizing multiphoton detachment in a Raman coupling regime. Physical Review Letters, 1993, 71, 3435-3438.	7.8	15
64	Modeling the transient optical parameters in laser-excited band gap materials. Optical Engineering, 2016, 56, 011015.	1.0	15
65	Dose-response of deformable radiochromic dosimeters for spot scanning proton therapy. Physics and Imaging in Radiation Oncology, 2020, 16, 134-137.	2.9	15
66	A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry. Nano Letters, 2022, 22, 1566-1572.	9.1	15
67	Nonlinear generation of broadband polarisation vortices. Optics Express, 2010, 18, 23212.	3.4	14
68	Luminescence decay dynamics of self-assembled germanium islands in silicon. Applied Physics Letters, 2011, 98, 093101.	3.3	14
69	Three-dimensional radiation dosimetry based on optically-stimulated luminescence. Journal of Physics: Conference Series, 2017, 847, 012044.	0.4	14
70	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
71	Fine-structure measurements for negative ions: Studies of Se ⁻ and Te ⁻ . Physical Review A, 1996, 53, 3023-3028.	2.5	13
72	Topology optimized gold nanostrips for enhanced near-infrared photon upconversion. Applied Physics Letters, 2017, 111, .	3.3	13

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73	Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. <i>ACS Applied Energy Materials</i> , 2020, 3, 253-259.	5.1	12
74	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
75	Empirical quenching correction in radiochromic silicone-based three-dimensional dosimetry of spot-scanning proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 18, 11-18.	2.9	11
76	Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 6562-6573.	5.1	11
77	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
78	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
79	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
80	Analytical model for the intensity dependence of 1500-nm to 980-nm upconversion in Er ³⁺ : A new tool for material characterization. <i>Journal of Applied Physics</i> , 2019, 125, 043106.	2.5	10
81	Impact of curing conditions on basic dosimetric properties of silicone-based radiochromic dosimeters for photon and proton irradiation. <i>Acta Oncologica</i> , 2022, 61, 264-268.	1.8	10
82	Photoemission with high-order harmonics: A tool for time-resolved core-level spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 615, 114-126.	1.6	9
83	Directly patterned TiO ₂ nanostructures for efficient light harvesting in thin film solar cells. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 365101.	2.8	9
84	Improving the efficiency of upconversion by light concentration using nanoparticle design. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 073001.	2.8	9
85	Unveiling nonlinear regimes of light amplification in fused silica with femtosecond imaging spectroscopy. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
86	Optically stimulated luminescence in state-of-the-art LYSO:Ce scintillators enables high spatial resolution 3D dose imaging. <i>Scientific Reports</i> , 2022, 12, 8301.	3.3	9
87	Interaction between Au nanoparticles and Er ³⁺ ions in a TiO ₂ matrix: Up-conversion of infrared light. <i>Energy Procedia</i> , 2011, 10, 111-116.	1.8	8
88	Light emission from silicon with tin-containing nanocrystals. <i>AIP Advances</i> , 2015, 5, .	1.3	8
89	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
90	Upconversion luminescence from magnetron-sputtered Er ³⁺ -doped TiO ₂ films: Influence of deposition- and annealing temperatures and correlation to decay times. <i>Journal of Applied Physics</i> , 2018, 124, 163105.	2.5	8

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91	Enhanced upconversion via plasmonic near-field effects: role of the particle shape. Journal of Optics (United Kingdom), 2019, 21, 035004.	2.2	8
92	Femtosecond-laser-induced modifications of Ge ₂ Sb ₂ Te ₅ thin films: Permanent optical change without amorphization. Applied Surface Science, 2019, 476, 221-231.	6.1	8
93	Recombination lifetimes of LiF:Mg,Cu,P for pulsed optically stimulated luminescence. Journal of Luminescence, 2021, 234, 117924.	3.1	8
94	Transient optical properties of highly excited dielectric materials: Apparent birefringence and delayed reflectivity increase. Physical Review Research, 2020, 2, .	3.6	8
95	Determination of femtosecond-laser-induced refractive-index changes in an optical fiber from far-field measurements. Optics Letters, 2014, 39, 3398.	3.3	7
96	Optimizing Plasmonically Enhanced Upconversion. Energy Procedia, 2015, 77, 478-486.	1.8	7
97	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
98	Multiphoton ionization of a three-electron atom: Studies with 25-keV Al beams. Physical Review A, 1992, 46, R1177-R1180.	2.5	6
99	High-Resolution Vacuum-Ultraviolet Spectroscopy of an Electron-Cooled D ⁺ Beam. Physical Review Letters, 2000, 85, 4028-4031.	7.8	6
100	Testing the permeability and corrosion resistance of micro-mechanically interlocked joints. Applied Physics A: Materials Science and Processing, 2011, 104, 975-979.	2.3	6
101	Auger-decay dynamics of germanium nano-islands in silicon. Nanotechnology, 2011, 22, 435401.	2.6	6
102	Er sensitization by a thin Si layer: Interaction-distance dependence. Physical Review B, 2011, 84, .	3.2	6
103	Near-field marking of gold nanostars by ultrashort pulsed laser irradiation: experiment and simulations. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6
104	Particle-particle interactions in large, sparse arrays of randomly distributed plasmonic metal nanoparticles: a two-particle model. Optics Express, 2017, 25, 19354.	3.4	5
105	Ultrashort-pulse-laser ablation of metals: Significant changes in ablation rates with depth. Springer Series in Chemical Physics, 2003, , 675-677.	0.2	5
106	Doppler tuning vuv spectroscopy of D ⁺ over an extended photon-energy range around threshold. Physical Review A, 2007, 76, .	2.5	4
107	Short-pulse metal structuring: a method for modifying surface adhesion properties. Proceedings of SPIE, 2008, , .	0.8	4
108	Thermalization of exciton states in silicon nanocrystals. Applied Physics Letters, 2009, 95, 183107.	3.3	4

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109	Exploring the dose response of radiochromic dosimeters. Journal of Physics: Conference Series, 2013, 444, 012036.	0.4	4
110	Field-enhancing photonic devices utilizing waveguide coupling and plasmonics - a selection rule for optimization-based design. Optics Express, 2018, 26, A788.	3.4	4
111	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
112	Laser Coupling and Relaxation of the Absorbed Energy: Metals, Semiconductors, and Dielectrics. , 2020, , 1-58.		4
113	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
114	Femtosecond laser excitation of dielectric materials: Optical properties and ablation. , 2012, , .		3
115	Investigation of nanoscale structures by small-angle X-ray scattering in a radiochromic dosimeter. RSC Advances, 2014, 4, 9152.	3.6	3
116	Signal requirements for 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012033.	0.4	3
117	Metallic nanosieves formed by ultra-short-pulse laser ablation. Applied Surface Science, 2009, 255, 4246-4249.	6.1	2
118	Effect of irradiation and storage temperature on PRESAGE TM dose response. Journal of Physics: Conference Series, 2010, 250, 012100.	0.4	2
119	Optimizing the efficiency of femtosecond-laser-written holograms. Applied Physics B: Lasers and Optics, 2013, 113, 345-349.	2.2	2
120	Feasibility study using MRI and two optical CT scanners for readout of polymer gel and Presage TM . Journal of Physics: Conference Series, 2013, 444, 012079.	0.4	2
121	Ultrashort-pulse laser excitation and damage of dielectric materials: experiments and modeling. , 2015, , .		2
122	Combining light-harvesting with detachability in high-efficiency thin-film silicon solar cells. Nanoscale, 2017, 9, 7169-7178.	5.6	2
123	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
124	Ultrafast Structural Dynamics in InSb Probed by Time-Resolved X-ray Diffraction. Springer Series in Chemical Physics, 1998, , 401-403.	0.2	2
125	Synthesis and structural characterization of Al ₂ O ₃ nanoparticles: Towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012023.	0.4	2
126	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

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127	Nonlinear Frequency Generation of High-Power Polarisation Vortices in Optical Fibers. , 2010, , .		1
128	Diffusion properties of a radiochromic hydrogel dosimeter. Journal of Physics: Conference Series, 2013, 444, 012038.	0.4	1
129	Broadband Mode Converters by Femtosecond-Laser-Light Refractive-Index Tailoring. IEEE Photonics Technology Letters, 2014, 26, 1454-1457.	2.5	1
130	MICRO AND NANO-MACHINING WITH ULTRASHORT LASER PULSES: FROM BASIC SCIENCE TO THE REAL WORLD. , 2007, , 257-270.		1
131	Enhanced Resolution in Nonlinear Microscopy Using the LP02 mode of an optical fiber. , 2010, , .		1
132	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
133	Resonance ionization spectroscopy of negative ions. , 1997, , .		0
134	Laser based sub-picosecond electron bunch characterization using 90° Thomson scattering. , 0, , .		0
135	Negative ion spectroscopy with stored H ⁺ ions. , 1999, , .		0
136	Ultrafast reaction dynamics on metal surfaces studied by time-resolved core-level spectroscopy. , 0, , .		0
137	Laser heating of metals: The question of reflectivity. , 2007, , .		0
138	Enhanced mode coupling by local structuring of optical fibre cores with 800 nm femtosecond pulses. , 2007, , .		0
139	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
140	Fundamentals of femtosecond laser ablation of dielectric materials. , 2010, , .		0
141	Single-shot ultrashort-pulse laser ablation of single-crystalline metal samples. , 2011, , .		0
142	Ultrashort pulse laser ablation of dielectric materials: Experiments and modeling. , 2011, , .		0
143	Computer-generated holograms written directly on silicon. , 2011, , .		0
144	EP-1833: Improved proton stopping power ratio estimation for a deformable 3D dosimeter using Dual Energy CT. Radiotherapy and Oncology, 2016, 119, S860-S861.	0.6	0

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145	PO-0794: First proton irradiation experiments with a deformable radiochromic 3D dosimeter. Radiotherapy and Oncology, 2016, 119, S373-S374.	0.6	0
146	PO-0829: Determining the mechanical properties of a radiochromic deformable silicone-based 3D dosimeter. Radiotherapy and Oncology, 2016, 119, S392-S393.	0.6	0
147	OC-0062: Correcting for linear energy transfer dependent quenching in 3D dosimetry of proton therapy. Radiotherapy and Oncology, 2017, 123, S29-S30.	0.6	0
148	SP-0414: Experience with the ESTRO mobility grant; proton irradiation of a 3D dosimeter. Radiotherapy and Oncology, 2017, 123, S218.	0.6	0
149	Ultrashort-pulse-laser ablation of metals: Significant changes in ablation rates with depth. , 2002, , .		0
150	Computer-Generated Holograms Written Directly on a Silicon Surface Including 3D and Rainbow Effects. , 2010, , .		0
151	Femtosecond Laser Ablation Rates of Dielectric Materials: Experiments and Modeling. , 2010, , .		0
152	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
153	Femtosecond refractive-index tailoring of an optical fiber and phase retrieval from far-field measurements. , 2013, , .		0
154	Observation of Resonant Excess Photon Detachment Via a Window Resonance in the Negative Cesium Ion. NATO ASI Series Series B: Physics, 1993, , 493-500.	0.2	0
155	Plasmonically Enhanced Upconversion of 1500 nm Light in Er+3 Doped TiO2. , 2016, , .		0
156	Revealing regimes of nonlinear light amplification in dielectrics. , 2020, , .		0
157	Laser Coupling and Relaxation of the Absorbed Energy: Metals, Semiconductors, and Dielectrics. , 2021, , 3-59.		0
158	Unveiling nonlinear light amplification in dielectrics. , 2020, , .		0