

# Peter Balling

## List of Publications by Year in descending order

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Version: 2024-02-01

158  
papers

3,866  
citations

201385

27  
h-index

143772

57  
g-index

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.  | 0.3 | 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. | 0.3 | 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.                                   | 0.8 | 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.                                      | 0.3 | 1         |
| 5  | A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry. Nano Letters, 2022, 22, 1566-1572.  | 4.5 | 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.  | 1.6 | 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.                        | 1.2 | 11        |
| 8  | Recombination lifetimes of LiF:Mg,Cu,P for pulsed optically stimulated luminescence. Journal of Luminescence, 2021, 234, 117924.  | 1.5 | 8         |
| 9  | Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 6562-6573.  | 2.5 | 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.  | 1.3 | 9         |
| 12 | Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. ACS Applied Energy Materials, 2020, 3, 253-259.   | 2.5 | 12        |
| 13 | Optical characterization of LiF:Mg,Cu,P “ Towards 3D optically stimulated luminescence dosimetry. Radiation Measurements, 2020, 138, 106390.  | 0.7 | 16        |
| 14 | Improving Upconversion Efficiency by Photon Management in Self-Assembled Core/Shell Nanocrystal Films. Journal of Physical Chemistry C, 2020, 124, 22357-22365.   | 1.5 | 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.             | 1.2 | 7         |
| 16 | Dose-response of deformable radiochromic dosimeters for spot scanning proton therapy. Physics and Imaging in Radiation Oncology, 2020, 16, 134-137.   | 1.2 | 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.                               | 0.8 | 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.        | 3.0 | 14        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Unveiling nonlinear regimes of light amplification in fused silica with femtosecond imaging spectroscopy. <i>Physical Review Research</i> , 2020, 2, .  | 1.3 | 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, .   | 1.3 | 8         |
| 24 | Enhanced upconversion via plasmonic near-field effects: role of the particle shape. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 035004.   | 1.0 | 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.                                    | 1.1 | 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.                                   | 3.1 | 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.  | 4.0 | 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.   | 1.1 | 6         |
| 29 | Laser amplification in excited dielectrics. <i>Nature Physics</i> , 2018, 14, 74-79.  | 6.5 | 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. | 1.1 | 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.  | 1.7 | 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.                                    | 1.1 | 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.  | 1.7 | 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.  | 1.7 | 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.   | 1.6 | 17        |
| 36 | Combining light-harvesting with detachability in high-efficiency thin-film silicon solar cells. <i>Nanoscale</i> , 2017, 9, 7169-7178.  | 2.8 | 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.  | 1.6 | 19        |
| 38 | Efficient light-trapping with quasi-periodic uniaxial nanowrinkles for thin-film silicon solar cells. <i>Nano Energy</i> , 2017, 35, 341-349.   | 8.2 | 16        |
| 39 | Topology optimized gold nanostrips for enhanced near-infrared photon upconversion. <i>Applied Physics Letters</i> , 2017, 111, .  | 1.5 | 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.  | 0.3 | 0         |
| 41 | SP-0414: Experience with the ESTRO mobility grant; proton irradiation of a 3D dosimeter. <i>Radiotherapy and Oncology</i> , 2017, 123, S218.  | 0.3 | 0         |
| 42 | First 3D measurements of proton beams in a deformable silicone-based dosimeter. <i>Journal of Physics: Conference Series</i> , 2017, 847, 012021.   | 0.3 | 8         |
| 43 | Simultaneous time-space resolved reflectivity and interferometric measurements of dielectrics excited with femtosecond laser pulses. <i>Physical Review B</i> , 2017, 95, .                                       | 1.1 | 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.                                      | 1.7 | 5         |
| 45 | Three-dimensional radiation dosimetry based on optically-stimulated luminescence. <i>Journal of Physics: Conference Series</i> , 2017, 847, 012044.   | 0.3 | 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.  | 1.6 | 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.                              | 1.6 | 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, .  | 1.5 | 19        |
| 49 | Modeling the transient optical parameters in laser-excited band gap materials. <i>Optical Engineering</i> , 2016, 56, 011015.   | 0.5 | 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.   | 0.3 | 0         |
| 51 | PO-0794: First proton irradiation experiments with a deformable radiochromic 3D dosimeter. <i>Radiotherapy and Oncology</i> , 2016, 119, S373-S374.   | 0.3 | 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.   | 0.3 | 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.                                   | 2.8 | 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. | 3.1 | 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.   | 0.3 | 22        |
| 58 | Light emission from silicon with tin-containing nanocrystals. AIP Advances, 2015, 5, .   | 0.6 | 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.              | 1.5 | 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, .                                  | 1.1 | 101       |
| 61 | Eliminating the dose-rate effect in a radiochromic silicone-based 3D dosimeter. Physics in Medicine and Biology, 2015, 60, 5557-5570.  | 1.6 | 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.         | 1.1 | 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.                                  | 1.3 | 9         |
| 65 | Probing ultrashort-pulse laser excitation of sapphire: From the initial carrier creation to material ablation. Europhysics Letters, 2014, 105, 47001.  | 0.7 | 24        |
| 66 | Modeling short-pulse laser excitation of dielectric materials. Applied Physics A: Materials Science and Processing, 2014, 117, 7-12.   | 1.1 | 18        |
| 67 | Investigation of nanoscale structures by small-angle X-ray scattering in a radiochromic dosimeter. RSC Advances, 2014, 4, 9152.  | 1.7 | 3         |
| 68 | Broadband Mode Converters by Femtosecond-Laser-Light Refractive-Index Tailoring. IEEE Photonics Technology Letters, 2014, 26, 1454-1457.   | 1.3 | 1         |
| 69 | Determination of femtosecond-laser-induced refractive-index changes in an optical fiber from far-field measurements. Optics Letters, 2014, 39, 3398.   | 1.7 | 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. | 1.1 | 25        |
| 71 | Optimizing the efficiency of femtosecond-laser-written holograms. Applied Physics B: Lasers and Optics, 2013, 113, 345-349.  | 1.1 | 2         |
| 72 | Femtosecond-laser ablation dynamics of dielectrics: basics and applications for thin films. Reports on Progress in Physics, 2013, 76, 036502.  | 8.1 | 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.                               | 0.8 | 22        |
| 74 | Exploring the dose response of radiochromic dosimeters. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012036.  | 0.3 | 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.   | 0.3 | 2         |
| 76 | Diffusion properties of a radiochromic hydrogel dosimeter. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012038.   | 0.3 | 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.  | 1.6 | 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.  | 1.7 | 21        |
| 81 | Luminescence decay dynamics of self-assembled germanium islands in silicon. <i>Applied Physics Letters</i> , 2011, 98, 093101.   | 1.5 | 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.               | 1.7 | 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.   | 1.6 | 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.                                       | 0.8 | 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. | 1.1 | 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.                               | 1.1 | 6         |
| 88 | Auger-decay dynamics of germanium nano-islands in silicon. <i>Nanotechnology</i> , 2011, 22, 435401.   | 1.3 | 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, .   | 1.1 | 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, .  | 1.1 | 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.  | 1.6 | 0         |
| 95  | Effect of irradiation and storage temperature on PRESAGE <sup>TM</sup> dose response. Journal of Physics: Conference Series, 2010, 250, 012100.   | 0.3 | 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.   | 1.1 | 179       |
| 98  | Single-shot ablation of sapphire by ultrashort laser pulses. Applied Physics A: Materials Science and Processing, 2010, 101, 279-282.   | 1.1 | 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.  | 1.4 | 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. | 0.7 | 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.   | 1.7 | 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.  | 1.5 | 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.  | 0.7 | 3         |
| 108 | Metallic nanosieves formed by ultra-short-pulse laser ablation. Applied Surface Science, 2009, 255, 4246-4249.  | 3.1 | 2         |

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|-----|---|-----|-----------|
| 109 | Bending diamonds by femtosecond laser ablation. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2952-2957.  | 0.6 | 27        |
| 110 | Laser structuring of metal surfaces: Micro-mechanical interlocking. Applied Surface Science, 2009, 255, 5591-5594.  | 3.1 | 36        |
| 111 | Modeling ultrashort-pulse laser ablation of dielectric materials. Physical Review B, 2009, 79, .  | 1.1 | 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.   | 0.3 | 0         |
| 113 | Calculus removal on a root cement surface by ultrashort laser pulses. Applied Surface Science, 2008, 254, 1895-1899.  | 3.1 | 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 $\text{D}^{\sim}$ over an extended photon-energy range around $\text{then}=\text{2threshold}$ . Physical Review A, 2007, 76, .   | 1.0 | 4         |
| 118 | Short-pulse ablation rates and the two-temperature model. Applied Surface Science, 2007, 253, 6347-6352.  | 3.1 | 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. | 1.1 | 35        |
| 121 | Deep drilling of metals with ultrashort laser pulses: A two-stage process. Journal of Applied Physics, 2006, 99, 093101.  | 1.1 | 27        |
| 122 | Nanostructuring of surfaces by ultra-short laser pulses. Applied Physics A: Materials Science and Processing, 2005, 80, 493-496.  | 1.1 | 22        |
| 123 | Perspectives for pulsed positrons. Nuclear Instruments & Methods in Physics Research B, 2004, 221, 200-205.   | 0.6 | 23        |
| 124 | Thermal lensing in pulsed laser amplifiers: an analytical model. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1479.  | 0.9 | 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.                                   | 1.5 | 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. | 0.7 | 1         |
| 129 | High-Resolution Vacuum-Ultraviolet Spectroscopy of an Electron-Cooled $D^{+}$ Beam. Physical Review Letters, 2000, 85, 4028-4031.  | 2.9 | 6         |
| 130 | High-resolution VUV spectroscopy of $H^{+}$ in the region near the $H(n=2)$ threshold. Physical Review A, 2000, 61, .  | 1.0 | 33        |
| 131 | Ultrafast Structural Dynamics in InSb Probed by Time-Resolved X-Ray Diffraction. Physical Review Letters, 1999, 83, 336-339.   | 2.9 | 184       |
| 132 | Two-photon detachment of $H^{+}$ in the vicinity of the one-photon detachment threshold. Physical Review A, 1999, 59, R3154-R3157.   | 1.0 | 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.  | 0.6 | 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.  | 2.9 | 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.           | 1.0 | 55        |
| 139 | Structural Properties of the Negative Calcium Ion: Binding Energies and Fine-Structure Splitting. Physical Review Letters, 1996, 76, 744-747.  | 2.9 | 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.  | 2.9 | 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.   | 6.0 | 439       |
| 142 | Fine-structure measurements for negative ions: Studies of $Se^{-}$ and $Te^{-}$ . Physical Review A, 1996, 53, 3023-3028.  | 1.0 | 13        |
| 143 | X-Ray Based Subpicosecond Electron Bunch Characterization Using 90° Thomson Scattering. Physical Review Letters, 1996, 77, 4182-4185.  | 2.9 | 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.   | 0.6 | 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.  | 1.0 | 19        |
| 146 | Resonant Ionization Spectroscopy of $Ba^{-}$ : Metastable and Stable Ions. <i>Physical Review Letters</i> , 1995, 75, 1911-1914.   | 2.9 | 70        |
| 147 | Interference in climbing a quantum ladder system with frequency-chirped laser pulses. <i>Physical Review A</i> , 1994, 50, 4276-4285.  | 1.0 | 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. | 0.6 | 23        |
| 149 | Spectroscopy of negative ions utilizing multiphoton detachment in a Raman coupling regime. <i>Physical Review Letters</i> , 1993, 71, 3435-3438.   | 2.9 | 15        |
| 150 | Metastable-ion lifetime studies utilizing a heavy-ion storage ring: Measurements on $He^{-}$ . <i>Physical Review A</i> , 1993, 47, 890-896.   | 1.0 | 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.  | 0.6 | 18        |
| 153 | Multiphoton ionization of a three-electron atom: Studies with 25-keV Al beams. <i>Physical Review A</i> , 1992, 46, R1177-R1180.   | 1.0 | 6         |
| 154 | Metastable ion lifetime studies utilizing a heavy-ion storage ring: Measurements on $Be^{-}$ . <i>Physical Review Letters</i> , 1992, 69, 1042-1045.   | 2.9 | 63        |
| 155 | Storage-ring experiments with $10^{10}$ -100-keV $Ca^{-}$ beams: Role of blackbody radiation. <i>Physical Review A</i> , 1992, 46, R1-R4.  | 1.0 | 49        |
| 156 | Excess-photon detachment in the negative gold ion. <i>Physical Review Letters</i> , 1991, 67, 1731-1734.   | 2.9 | 38        |
| 157 | Laser based sub-picosecond electron bunch characterization using $90^{\circ}$ Thomson scattering. , 0, , .   |     | 0         |
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