

# Phillip A. Sprangle

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

264  
papers

13,219  
citations

60  
h-index

108  
g-index

304  
ext. papers

14,292  
ext. citations

2.8  
avg, IF

5.94  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 264 | UV laser pulse trains for Raman spectroscopy. <i>Optics Letters</i> , <b>2021</b> , 46, 4867-4870  | 3    | 1         |
| 263 | Remote detection of radioactive material using mid-IR laser-driven electron avalanche. <i>Science Advances</i> , <b>2019</b> , 5, eaav6804   | 14.3 | 13        |
| 262 | Detecting radiation in a standoff geometry with mid-IR laser breakdown <b>2019</b> ,   |      | 1         |
| 261 | Remote detection of radioactive material using optically induced air breakdown ionization <b>2019</b> ,  |      | 2         |
| 260 | Effect of laser noise on the propagation of laser radiation in dispersive and nonlinear media. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 346 | 1.7  | 1         |
| 259 | Quadrupolar mode measurements for space charge dominated beams. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 073107   |      | 1         |
| 258 | The effect of laser noise on the propagation of laser radiation in dispersive and nonlinear media <b>2018</b> ,  |      | 1         |
| 257 | Proton acceleration in a slow wakefield. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 024101  | 3.4  | 2         |
| 256 | High-power lasers for directed-energy applications: reply. <i>Applied Optics</i> , <b>2017</b> , 56, 4825-4826   | 0.2  | 3         |
| 255 | Pulse splitting of stimulated Raman backscattering with a chirped pump. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 123113   | 2.1  | 3         |
| 254 | Atmospheric propagation and combining of high-power lasers: reply. <i>Applied Optics</i> , <b>2016</b> , 55, 8338-8339.2   | 0.2  | 3         |
| 253 | An Optical Magnetometry Mechanism Above the Surface of Seawater. <i>IEEE Journal of Quantum Electronics</i> , <b>2016</b> , 52, 1-6  | 2    | 2         |
| 252 | The free electron laser: conceptual history. <i>Physica Scripta</i> , <b>2016</b> , 91, 083003   | 2.6  | 16        |
| 251 | Remote monostatic detection of radioactive material by laser-induced breakdown. <i>Physics of Plasmas</i> , <b>2016</b> , 23, 033507   | 2.1  | 14        |
| 250 | Atmospheric propagation and combining of high-power lasers. <i>Applied Optics</i> , <b>2016</b> , 55, 1757-64  | 0.2  | 25        |
| 249 | Multi variable control of filamentation of femtosecond laser pulses propagating in air. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 094005      | 1.3  | 9         |
| 248 | High-power lasers for directed-energy applications. <i>Applied Optics</i> , <b>2015</b> , 54, F201-9   | 0.2  | 71        |

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|-----|---|-----|----|
| 247 | Guiding supersonic projectiles using optically generated air density channels. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 123301  | 2.5 | 4  |
| 246 | Undergraduate Education with the Rutgers 12-Inch Cyclotron. <i>Physics Procedia</i> , <b>2015</b> , 66, 622-631   |     | 5  |
| 245 | Propagation of Bessel and Airy beams through atmospheric turbulence. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2014</b> , 31, 603-9 | 1.8 | 54 |
| 244 | Active remote detection of radioactivity based on electromagnetic signatures. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 013103  | 2.1 | 17 |
| 243 | Extended lifetime of high density plasma filament generated by a dual femtosecond/fanosecond laser pulse in air. <i>New Journal of Physics</i> , <b>2014</b> , 16, 123046               | 2.9 | 31 |
| 242 | High-power, high-intensity laser propagation and interactions). <i>Physics of Plasmas</i> , <b>2014</b> , 21, 055402  | 2.1 | 11 |
| 241 | Remote atmospheric optical magnetometry. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 064902  | 2.5 | 6  |
| 240 | Temporal evolution of femtosecond laser induced plasma filament in air and N <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2013</b> , 103, 244102                                  | 3.4 | 13 |
| 239 | Boron nitride plasma micro lens for high intensity laser pre-pulse suppression. <i>Optics Express</i> , <b>2013</b> , 21, 5077-85   | 3.3 | 3  |
| 238 | Three-dimensional, time-dependent simulation of a regenerative amplifier free-electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2013</b> , 16,         |     | 7  |
| 237 | Development of a high average current rf linac thermionic injector. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2013</b> , 16,                                   |     | 8  |
| 236 | Enhanced proton acceleration by an ultrashort laser interaction with structured dynamic plasma targets. <i>Physical Review Letters</i> , <b>2013</b> , 110, 215004                      | 7.4 | 60 |
| 235 | A Gridded Thermionic Injector Gun for High-Average-Power Free-Electron Lasers. <i>IEEE Transactions on Plasma Science</i> , <b>2012</b> , 40, 1977-1983                                 | 1.3 | 4  |
| 234 | On the sensitivity of terahertz gyrotron based systems for remote detection of concealed radioactive materials. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 124912           | 2.5 | 33 |
| 233 | Propagation of gamma rays and production of free electrons in air. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 083303  | 2.5 | 14 |
| 232 | The nonlinear OPC technique for laser beam control in turbulent atmosphere <b>2012</b> ,  |     | 2  |
| 231 | Remote lasing in air by recombination and electron impact excitation of molecular nitrogen. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 033105                               | 2.5 | 38 |
| 230 | Laser heating of uncoated optics in a convective medium. <i>Applied Optics</i> , <b>2012</b> , 51, 2573-80  | 1.7 | 4  |

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|-----|--|------|-----|
| 229 | Range, resolution and power of THz systems for remote detection of concealed radioactive materials. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 083303                                    | 2.5  | 22  |
| 228 | 5.5-7.5 MeV proton generation by a moderate-intensity ultrashort-pulse laser interaction with H <sub>2</sub> O nanowire targets. <i>Physical Review Letters</i> , <b>2011</b> , 106, 134801          | 7.4  | 33  |
| 227 | Remotely induced atmospheric lasing. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 211102   | 3.4  | 53  |
| 226 | High average current electron guns for high-power free electron lasers. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2011</b> , 14,  |      | 17  |
| 225 | Microwave diagnostics of femtosecond laser-generated plasma filaments. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 141503   | 3.4  | 22  |
| 224 | Standoff spectroscopy via remote generation of a backward-propagating laser beam. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 3130-4 | 11.5 | 113 |
| 223 | Measurement & Simulation of Interpenetration and DC Accumulation of Beam in the University of Maryland Electron Ring <b>2010</b> ,   |      | 2   |
| 222 | Propagation of ultrashort laser pulses in optically ionized gases. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 023101  | 2.1  | 9   |
| 221 | Terahertz generation in plasmas using two-color laser pulses. <i>Physical Review E</i> , <b>2010</b> , 81, 026407  | 2.4  | 41  |
| 220 | Wall-Plug Efficiency and Beam Dynamics in Free-Electron Lasers Using Energy Recovery Linacs. <i>IEEE Journal of Quantum Electronics</i> , <b>2010</b> , 46, 1135-1144                                | 2    | 4   |
| 219 | Laser-pumped coherent x-ray free-electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2009</b> , 12,   |      | 36  |
| 218 | Optical quality of high-power laser beams in lenses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, 503   | 1.7  | 17  |
| 217 | Absorption and scattering of 1.06 microm laser radiation from oceanic aerosols. <i>Applied Optics</i> , <b>2009</b> , 48, 6990-9   | 0.2  | 6   |
| 216 | . <i>IEEE Journal of Quantum Electronics</i> , <b>2009</b> , 45, 138-148   | 2    | 78  |
| 215 | . <i>IEEE Journal of Quantum Electronics</i> , <b>2009</b> , 45, 218-222   | 2    | 5   |
| 214 | Effect of an energy reservoir on the atmospheric propagation of laser-plasma filaments. <i>Physical Review Letters</i> , <b>2008</b> , 100, 155003   | 7.4  | 29  |
| 213 | (3+1)-dimensional numerical simulations of femtosecond laser filaments in air: toward a quantitative agreement with experiments. <i>Physical Review E</i> , <b>2008</b> , 77, 036406                 | 2.4  | 37  |
| 212 | Conductivity Measurements of Femtosecond Laser Plasma Filaments. <i>IEEE Transactions on Plasma Science</i> , <b>2007</b> , 35, 1430-1436  | 1.3  | 25  |

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|-----|---|-----|----|
| 211 | Pulse slippage in high-gain, optically guided free-electron lasers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 581, 601-605 | 1.2 | 2  |
| 210 | GUIDING OF HIGH LASER INTENSITIES IN LONG PLASMA CHANNELS. <i>International Journal of Modern Physics B</i> , <b>2007</b> , 21, 361-371   | 1.1 | 1  |
| 209 | Electron density in low density capillary plasma channel. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 061501   | 3.4 | 11 |
| 208 | Long plasma channels in segmented capillary discharges. <i>Physics of Plasmas</i> , <b>2006</b> , 13, 083108  | 2.1 | 11 |
| 207 | Direct measurements of the dynamics of self-guided femtosecond laser filaments in air. <i>IEEE Transactions on Plasma Science</i> , <b>2006</b> , 34, 249-253   | 1.3 | 8  |
| 206 | Tunable, high peak power terahertz radiation from optical rectification of a short modulated laser pulse. <i>Optics Express</i> , <b>2006</b> , 14, 6813-22   | 3.3 | 3  |
| 205 | Superconducting cavity driving with FPGA controller. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 568, 854-862 <sup>1.2</sup> |     | 4  |
| 204 | Quasimonoenergetic electrons from unphased injection into channel guided laser wakefield accelerators. <i>Physical Review E</i> , <b>2005</b> , 71, 026404  | 2.4 | 38 |
| 203 | Trapping and acceleration of nonideal injected electron bunches in laser Wakefield accelerators. <i>IEEE Transactions on Plasma Science</i> , <b>2005</b> , 33, 712-722   | 1.3 | 14 |
| 202 | Generation of high-energy electrons in a double gas jet and laser wakefield acceleration. <i>IEEE Transactions on Plasma Science</i> , <b>2005</b> , 33, 735-738  | 1.3 | 3  |
| 201 | Direct characterization of self-guided femtosecond laser filaments in air. <i>Applied Optics</i> , <b>2005</b> , 44, 1474-9.7   |     | 23 |
| 200 | Remote atmospheric breakdown for standoff detection by using an intense short laser pulse. <i>Applied Optics</i> , <b>2005</b> , 44, 5315-20  | 1.7 | 12 |
| 199 | Characterization of the third-harmonic radiation generated by intense laser self-formed filaments propagating in air. <i>Optics Letters</i> , <b>2005</b> , 30, 1503-5  | 3   | 15 |
| 198 | Measurements of intense femtosecond laser pulse propagation in air. <i>Physics of Plasmas</i> , <b>2005</b> , 12, 056705  | 2.1 | 18 |
| 197 | Transmission of intense femtosecond laser pulses into dielectrics. <i>Physical Review E</i> , <b>2005</b> , 72, 036412  | 2.4 | 60 |
| 196 | Generation and measurements of high energy injection electrons from the high density laser ionization and ponderomotive acceleration. <i>Physics of Plasmas</i> , <b>2005</b> , 12, 010701-010701-4                                     | 2.1 | 7  |
| 195 | First demonstration of a staged all-optical laser wakefield acceleration. <i>Physics of Plasmas</i> , <b>2005</b> , 12, 100702  | 2.1 | 22 |
| 194 | Longitudinal profiles of plasma parameters in a laser-ignited capillary discharge and implications for laser wakefield accelerator applications. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 261501                              | 3.4 | 15 |

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|-----|---|-----|-----|
| 193 | Longitudinal compression of short laser pulses in air. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4080-4082   | 3.4 | 24  |
| 192 | Ultrashort laser pulses and electromagnetic pulse generation in air and on dielectric surfaces. <i>Physical Review E</i> , <b>2004</b> , 69, 066415   | 2.4 | 165 |
| 191 | Propagation of ultra-short, intense laser pulses in air. <i>Physics of Plasmas</i> , <b>2004</b> , 11, 2865-2874  | 2.1 | 56  |
| 190 | Design of a compact, optically guided, pinched, megawatt class free-electron laser. <i>IEEE Journal of Quantum Electronics</i> , <b>2004</b> , 40, 1739-1743  | 2   | 9   |
| 189 | Relativistic effects on intense laser beam propagation in plasma channels. <i>Physics of Plasmas</i> , <b>2003</b> , 10, 1483-1492  | 2.1 | 48  |
| 188 | Asymmetric self-phase modulation and compression of short laser pulses in plasma channels. <i>Physical Review Letters</i> , <b>2003</b> , 90, 215001  | 7.4 | 68  |
| 187 | Stimulated Raman scattering of intense laser pulses in air. <i>Physical Review E</i> , <b>2003</b> , 68, 056502   | 2.4 | 30  |
| 186 | Electron distribution function in short-pulse photoionization. <i>Physical Review E</i> , <b>2003</b> , 67, 056407  | 2.4 | 11  |
| 185 | Spatially resolved interferometric measurement of a discharge capillary plasma channel. <i>Physics of Plasmas</i> , <b>2003</b> , 10, 4504-4512   | 2.1 | 8   |
| 184 | Self-compensation for the axial velocity spread in a wiggler field. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 483, 534-536 | 1.2 |     |
| 183 | Raman forward scattering and self-modulation of laser pulses in tapered plasma channels. <i>Physical Review E</i> , <b>2002</b> , 66, 036402  | 2.4 | 15  |
| 182 | Raman sidescatter in numerical models of short pulse laser plasma interactions. <i>Physics of Plasmas</i> , <b>2002</b> , 9, 1157-1163  | 2.1 | 10  |
| 181 | GeV acceleration in tapered plasma channels. <i>Physics of Plasmas</i> , <b>2002</b> , 9, 2364-2370   | 2.1 | 34  |
| 180 | Propagation of intense short laser pulses in the atmosphere. <i>Physical Review E</i> , <b>2002</b> , 66, 046418  | 2.4 | 198 |
| 179 | High intensity focusing of laser pulses using a short plasma channel lens. <i>Physics of Plasmas</i> , <b>2002</b> , 9, 1431-1442   | 2.1 | 17  |
| 178 | Requirements for a laser pumped FEL operating in the X-ray regime. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2001</b> , 475, 190-194  | 1.2 | 8   |
| 177 | Measurements of energetic electrons from the high-intensity laser ionization of gases. <i>Physics of Plasmas</i> , <b>2001</b> , 8, 2481-2487   | 2.1 | 36  |
| 176 | Apparent superluminal propagation of a laser pulse in a dispersive medium. <i>Physical Review E</i> , <b>2001</b> , 64, 026504  | 2.4 | 13  |

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|-----|---|-----|-----|
| 175 | Simulation and design of stable channel-guided laser wakefield accelerators. <i>Physical Review E</i> , <b>2001</b> , 63, 036502  | 2.4 | 28  |
| 174 | Seeding of the forward Raman instability by ionization fronts and Raman backscatter. <i>Physical Review E</i> , <b>2001</b> , 64, 046404  | 2.4 | 28  |
| 173 | Progress in the development of a high average power ultra-broadband infrared radiation source. <i>IEEE Journal of Quantum Electronics</i> , <b>2001</b> , 37, 641-652   | 2   | 5   |
| 172 | Velocity control and staging in laser wakefield accelerators using segmented capillary discharges. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3175-3177   | 3.4 | 22  |
| 171 | Wakefield generation and GeV acceleration in tapered plasma channels. <i>Physical Review E</i> , <b>2001</b> , 63, 056405   | 2.4 | 95  |
| 170 | Measurement of forward Raman scattering and electron acceleration from high-intensity laser-plasma interactions at 527 nm. <i>IEEE Transactions on Plasma Science</i> , <b>2000</b> , 28, 1122-1127                         | 1.3 | 11  |
| 169 | Ultrashort free-electron laser pulse. <i>Physical Review E</i> , <b>2000</b> , 61, 5779-83  | 2.4 | 3   |
| 168 | Stable laser-pulse propagation in plasma channels for GeV electron acceleration. <i>Physical Review Letters</i> , <b>2000</b> , 85, 5110-3  | 7.4 | 51  |
| 167 | Transverse modulation of an electron beam generated in self-modulated laser wakefield accelerator experiments. <i>Physical Review E</i> , <b>2000</b> , 61, 788-92  | 2.4 | 6   |
| 166 | Laser pulse modulation instabilities in plasma channels. <i>Physical Review E</i> , <b>2000</b> , 61, 4381-93   | 2.4 | 73  |
| 165 | Relativistic focusing and ponderomotive channeling of intense laser beams. <i>Physical Review E</i> , <b>2000</b> , 62, 4120-5  | 2.4 | 121 |
| 164 | High efficiency guiding of terawatt subpicosecond laser pulses in a capillary discharge plasma channel. <i>Physical Review E</i> , <b>1999</b> , 59, R4769-72   | 2.4 | 62  |
| 163 | Propagation of finite length laser pulses in plasma channels. <i>Physical Review E</i> , <b>1999</b> , 59, 3614-3623  | 2.4 | 17  |
| 162 | Guiding and stability of short laser pulses in partially stripped ionizing plasmas. <i>Physics of Plasmas</i> , <b>1999</b> , 6, 1683-1689  | 2.1 | 20  |
| 161 | Analysis of Gaussian beam and Bessel beam driven laser accelerators. <i>Physical Review E</i> , <b>1999</b> , 60, 4779-924  | 2.4 | 32  |
| 160 | Dynamics of Short Laser Pulses Propagating in Plasma Channels. <i>Physical Review Letters</i> , <b>1999</b> , 82, 1173-1176   | 2.4 | 21  |
| 159 | A Laser-Accelerator Injector Based on Laser Ionization and Ponderomotive Acceleration of Electrons. <i>Physical Review Letters</i> , <b>1999</b> , 82, 1688-1691  | 7.4 | 105 |
| 158 | Is efficiency of gain generation in Li III 13.5-nm laser with 0.25-/spl mu/m subpicosecond pulses the same as with 1 /spl mu/m?. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>1999</b> , 5, 1453-1459 | 3.8 | 17  |

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|-----|---|-----|-----|
| 157 | Generation of high-average-power ultrabroad-band infrared pulses. <i>IEEE Journal of Quantum Electronics</i> , <b>1999</b> , 35, 565-576  | 2   | 13  |
| 156 | Comparing efficiency of gain generation in Li III 13.5-nm laser with 0.25-fs and 1-fs subpicosecond pumping pulses <b>1999</b> ,  |     | 2   |
| 155 | Guiding and damping of high-intensity laser pulses in long plasma channels. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 2416  | 1.7 | 40  |
| 154 | Plasma Channel Formation and Guiding during High Intensity Short Pulse Laser Plasma Experiments. <i>Physical Review Letters</i> , <b>1997</b> , 78, 4047-4050   | 7.4 | 177 |
| 153 | Vacuum beat wave acceleration. <i>Physical Review E</i> , <b>1997</b> , 55, 5924-5933   | 2.4 | 56  |
| 152 | Plasma wakefield generation and electron acceleration in a self-modulated laser wakefield accelerator experiment. <i>Physics of Plasmas</i> , <b>1997</b> , 4, 1889-1899  | 2.1 | 151 |
| 151 | Ionization and pulse lethargy effects in inverse Cherenkov accelerators. <i>Physical Review E</i> , <b>1997</b> , 55, 5964-5975   | 2.4 | 157 |
| 150 | Electron Injection into Plasma Wakefields by Colliding Laser Pulses. <i>Physical Review Letters</i> , <b>1997</b> , 79, 2682-2685   | 7.4 | 370 |
| 149 | Laser-driven acceleration with Bessel beams. <i>Physical Review E</i> , <b>1997</b> , 55, 3539-3545   | 2.4 | 88  |
| 148 | Electron Trapping in Self-Modulated Laser Wakefields by Raman Backscatter. <i>Physical Review Letters</i> , <b>1997</b> , 79, 3909-3912   | 7.4 | 116 |
| 147 | Propagation and stability of intense laser pulses in partially stripped plasmas. <i>Physical Review E</i> , <b>1997</b> , 56, 5894-5907   | 2.4 | 49  |
| 146 | Intense Laser Pulse Propagation and Stability in Partially Stripped Plasmas. <i>Physical Review Letters</i> , <b>1997</b> , 79, 1046-1049   | 7.4 | 54  |
| 145 | Low-voltage infrared free-electron lasers based on gyrotron-powered RF wigglers. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 669-676   | 2   | 1   |
| 144 | Self-focusing and guiding of short laser pulses in ionizing gases and plasmas. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 1879-1914   | 2   | 362 |
| 143 | Optical guiding of high-intensity laser pulses in a long plasma channel formed by a slow capillary discharge. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 68                              | 1.7 | 66  |
| 142 | Overview of plasma-based accelerator concepts. <i>IEEE Transactions on Plasma Science</i> , <b>1996</b> , 24, 252-288   | 1.3 | 994 |
| 141 | Guiding of High Intensity Laser Pulses in Straight and Curved Plasma Channel Experiments. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4186-4189  | 7.4 | 257 |
| 140 | Nonlinear Thomson scattering for off-axis interaction geometries. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1996</b> , 375, 545-549 | 1.2 | 5   |



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|-----|---|-----|-----|
| 139 | Vacuum laser acceleration. <i>Optics Communications</i> , <b>1996</b> , 124, 69-73  | 2   | 45  |
| 138 | Laser driven electron acceleration in vacuum, gases, and plasmas. <i>Physics of Plasmas</i> , <b>1996</b> , 3, 2183-2190  | 2.1 | 141 |
| 137 | Temporal Evolution of Self-Modulated Laser Wakefields Measured by Coherent Thomson Scattering. <i>Physical Review Letters</i> , <b>1996</b> , 77, 5377-5380   | 7.4 | 62  |
| 136 | Radiation generation by photoswitched, periodically biased semiconductors. <i>Physical Review E</i> , <b>1996</b> , 53, 6419-6426   | 2.4 | 10  |
| 135 | Self-guiding and stability of intense optical beams in gases undergoing ionization. <i>Physical Review E</i> , <b>1996</b> , 54, 4211-4232  | 2.4 | 81  |
| 134 | A microwave inverse free-electron-laser accelerator (MIFELA). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1995</b> , 358, 129-130 | 1.2 | 2   |
| 133 | Observation of 20 eV x-ray generation in a proof-of-principle laser synchrotron source experiment. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 575-577  | 2.5 | 31  |
| 132 | Laser acceleration of electrons in vacuum. <i>Physical Review E</i> , <b>1995</b> , 52, 5443-5453   | 2.4 | 240 |
| 131 | Theory and group velocity of ultrashort, tightly focused laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1695   | 1.7 | 66  |
| 130 | Electron Barkhausen oscillation as a possible source of kHz radiation from the neutral sheet of the Earth's magnetotail. <i>Physica Scripta</i> , <b>1994</b> , T52, 152-153  | 2.6 |     |
| 129 | Electron beam quality in a cyclotron autoresonance accelerator. <i>Physical Review E</i> , <b>1994</b> , 50, 3077-3086  | 2.4 | 20  |
| 128 | Propagation of radius-tailored laser pulses over extended distances in a uniform plasma*. <i>Physics of Plasmas</i> , <b>1994</b> , 1, 1738-1743  | 2.1 | 37  |
| 127 | Hose-Modulation Instability of Laser Pulses in Plasmas. <i>Physical Review Letters</i> , <b>1994</b> , 73, 3544-3547  | 7.4 | 92  |
| 126 | A far-infrared grating free-electron laser. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1994</b> , 341, 269-273                   | 1.2 | 1   |
| 125 | Envelope analysis of intense laser pulse self-modulation in plasmas. <i>Physical Review Letters</i> , <b>1994</b> , 72, 2887-2890   | 7.4 | 172 |
| 124 | . <i>IEEE Transactions on Plasma Science</i> , <b>1994</b> , 22, 666-673  | 1.3 | 1   |
| 123 | Optically guided laser wake-field acceleration*. <i>Physics of Fluids B</i> , <b>1993</b> , 5, 2690-2697  |     | 100 |
| 122 | Enhanced acceleration in a self-modulated-laser wake-field accelerator. <i>Physical Review E</i> , <b>1993</b> , 48, 2157-2161  | 2.1 | 130 |

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