

Deepak Mathur

List of Publications by Year in descending order

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317
papers

6,132
citations

87888

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138484

58
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322
all docs

322
docs citations

322
times ranked

3234
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Anomalous formation of trihydrogen cations from water on nanoparticles. Nature Communications, 2021, 12, 3839. | 12.8 | 11 |
| 2 | Generation of Multiply Charged Argon Ions in Nanosecond Laser Field Ionization of Argon Clusters. Journal of Physical Chemistry Letters, 2020, 11, 9842-9845. | 4.6 | 5 |
| 3 | Thermal Energy Electrons and OH-Radicals Induce Strand Breaks in DNA in an Aqueous Environment: Some Salts Offer Protection Against Strand Breaks. Journal of Physical Chemistry A, 2020, 124, 1508-1514. | 2.5 | 2 |
| 4 | Strong Strand Breaks in DNA Induced by Thermal Energy Particles and Their Electrostatic Inhibition by Na ⁺ Nanostructures. Journal of Physical Chemistry A, 2019, 123, 3241-3247. | 2.5 | 2 |
| 5 | Minireview: Laser-Induced Formation of Microbubbles—Biomedical Implications. Langmuir, 2019, 35, 10139-10150. | 3.5 | 15 |
| 6 | Direct femtosecond laser fabricated photon sieve. OSA Continuum, 2019, 2, 1328. | 1.8 | 1 |
| 7 | A laser Raman tweezers study of eryptosis. Journal of Raman Spectroscopy, 2018, 49, 1155-1164. | 2.5 | 13 |
| 8 | Controlling material birefringence in sapphire via self-assembled, sub-wavelength defects. Applied Physics B: Lasers and Optics, 2018, 124, 1. | 2.2 | 1 |
| 9 | Carrier-envelope phase-dependent ionization of Xe in intense, ultrafast (two-cycle) laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 015601. | 1.5 | 2 |
| 10 | Effect of biocompatible nucleants in rapid crystallization of natural amino acids using a CW Nd:YAG laser. Scientific Reports, 2018, 8, 16018. | 3.3 | 4 |
| 11 | Electrostatic engineering of charge clouds around DNA inhibits strand breakages. Applied Physics Letters, 2018, 113, 113701. | 3.3 | 2 |
| 12 | Flexible superhydrophobic SERS substrates fabricated by in situ reduction of Ag on femtosecond laser-written hierarchical surfaces. Sensors and Actuators B: Chemical, 2018, 272, 485-493. | 7.8 | 63 |
| 13 | Inscription of waveguides and power splitters in borosilicate glass using ultrashort laser pulses. Journal of Optics (India), 2017, 46, 304-310. | 1.7 | 6 |
| 14 | Effect of infrared light on live blood cells: Role of β -carotene. Journal of Photochemistry and Photobiology B: Biology, 2017, 171, 104-116. | 3.8 | 16 |
| 15 | Fabrication of micro-optical components using femtosecond oscillator pulses. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 16 | Spectral narrowing in gases using femtosecond laser pulses. , 2017, , . | | 0 |
| 17 | Laser writing of single-crystalline gold substrates for surface enhanced Raman spectroscopy. Materials Research Express, 2017, 4, 075027. | 1.6 | 1 |
| 18 | Effect of nucleants in photothermally assisted crystallization. Photochemical and Photobiological Sciences, 2017, 16, 870-882. | 2.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Ultrafast dynamics of hemin aggregates. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26862-26869. | 2.8 | 8 |
| 20 | Hydrogen migration within a water molecule: formation of HD ⁺ upon irradiation of HOD with intense, ultrashort laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 154004. | 1.5 | 8 |
| 21 | Inscription of type I and depressed cladding waveguides in lithium niobate using a femtosecond laser. <i>Applied Optics</i> , 2017, 56, 5692. | 1.8 | 7 |
| 22 | A diffusion based study of population dynamics: Prehistoric migrations into South Asia. <i>PLoS ONE</i> , 2017, 12, e0176985. | 2.5 | 3 |
| 23 | Zone Plate Fabrication Using a Low Power Femtosecond Laser. <i>Advanced Science Letters</i> , 2017, 23, 1745-1748. | 0.2 | 0 |
| 24 | Remembering John Herbert Beynon 29th December 1923 to 24th August 2015. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1253-1264. | 1.5 | 1 |
| 25 | Remembering John Herbert Beynon 29th December 1923 to 24th August 2015. <i>Journal of Mass Spectrometry</i> , 2016, 51, 385-395. | 1.6 | 0 |
| 26 | Optical control of filamentation-induced damage to DNA by intense, ultrashort, near-infrared laser pulses. <i>Scientific Reports</i> , 2016, 6, 27515. | 3.3 | 11 |
| 27 | Optically trapping tumor cells to assess differentiation and prognosis of cancers. <i>Biomedical Optics Express</i> , 2016, 7, 943. | 2.9 | 13 |
| 28 | Microfabrication of Fresnel zone plates by laser induced solid ablation. <i>Journal of Optics (United Kingdom)</i> , 2016, 17, 122010. | 2.2 | 7 |
| 29 | Spectral broadening in lithium niobate in a self-diffraction geometry using ultrashort pulses. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1. | 2.2 | 2 |
| 30 | Enhanced third harmonic generation in air by two-colour ultrashort laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1. | 2.2 | 6 |
| 31 | Irradiation of myoglobin by intense, ultrashort laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1. | 2.2 | 2 |
| 32 | Mimicking Ultrafast Biological Systems. <i>Biological and Medical Physics Series</i> , 2016, , 179-197. | 0.4 | 0 |
| 33 | Ultrafast Quantum Mechanical Processes in Animals. <i>Biological and Medical Physics Series</i> , 2016, , 145-157. | 0.4 | 1 |
| 34 | Femtosecond supercontinuum generation in water in the vicinity of absorption bands. <i>Optics Letters</i> , 2016, 41, 3475. | 3.3 | 18 |
| 35 | Ultrafast Biophotonics. <i>Biological and Medical Physics Series</i> , 2016, , . | 0.4 | 16 |
| 36 | Future Opportunities. <i>Biological and Medical Physics Series</i> , 2016, , 199-222. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Ultrashort Pulses and Nonlinear Optics: Nuts and Bolts. Biological and Medical Physics Series, 2016, , 9-39. | 0.4 | 0 |
| 38 | Biophotonics in Ultrashort, Intense Optical Fields. Biological and Medical Physics Series, 2016, , 95-122. | 0.4 | 0 |
| 39 | Self-cleaning superhydrophobic surfaces with underwater superaerophobicity. Materials and Design, 2016, 100, 8-18. | 7.0 | 51 |
| 40 | Growth of micro-crystals in solution by in-situ heating via continuous wave infrared laser light and an absorber. Journal of Crystal Growth, 2016, 433, 43-47. | 1.5 | 3 |
| 41 | Ultrafast Lasers in Surgery and Cell Manipulation. Biological and Medical Physics Series, 2016, , 77-93. | 0.4 | 1 |
| 42 | Population Dynamics of Early Human Migration in Britain. PLoS ONE, 2016, 11, e0154641. | 2.5 | 4 |
| 43 | Energy Landscapes, Tunneling, and Non-adiabatic Effects. Biological and Medical Physics Series, 2016, , 159-177. | 0.4 | 0 |
| 44 | Micro-patterning of Indium thin film for generation of micron and submicron particles using femtosecond laser-induced forward transfer. Laser and Particle Beams, 2015, 33, 449-454. | 1.0 | 3 |
| 45 | Power- and polarization-dependent supercontinuum generation in TiO_2 crystals by intense, near-infrared, femtosecond laser pulses. Physical Review A, 2015, 91, . | 2.5 | 5 |
| 46 | Selective breaking of bonds in water with intense, 2-cycle, infrared laser pulses. Journal of Chemical Physics, 2015, 143, 244310. | 3.0 | 16 |
| 47 | Biology-inspired AMO physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 022001. | 1.5 | 9 |
| 48 | Influencing supercontinuum generation by phase distorting an ultrashort laser pulse. Optics Letters, 2015, 40, 241. | 3.3 | 12 |
| 49 | Probing differentiation in cancer cell lines by single-cell micro-Raman spectroscopy. Journal of Biomedical Optics, 2015, 20, 085001. | 2.6 | 24 |
| 50 | On the generation of polarization-dependent supercontinuum and third harmonic in air. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094012. | 1.5 | 13 |
| 51 | Effect of heat source on the growth of dendritic drying patterns. Pramana - Journal of Physics, 2015, 84, 387-394. | 1.8 | 0 |
| 52 | Cu(I)-Catalyzed Efficient Synthesis of 2-Triazolone-nucleoside Conjugates. Journal of Heterocyclic Chemistry, 2015, 52, 701-710. | 2.6 | 10 |
| 53 | Varying coordination modes of amide ligand in group 12 Hg(II) and Cd(II) complexes: synthesis, crystal structure and nonlinear optical properties. Dalton Transactions, 2015, 44, 1933-1941. | 3.3 | 8 |
| 54 | Propagation of Ultrashort, Long Wavelength Laser Pulses. Springer Series in Chemical Physics, 2015, , 105-126. | 0.2 | 1 |

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|----|---|------|-----------|
| 55 | Preface- Ultrafast Science: Progress and Opportunities. Proceedings of the Indian National Science Academy, 2015, 81, . | 1.4 | 1 |
| 56 | Rotational Dynamics of Optically Trapped Human Spermatozoa. Scientific World Journal, The, 2014, 2014, 1-7. | 2.1 | 7 |
| 57 | Supercontinuum Generation in Water. , 2014, , . | | 0 |
| 58 | A Micro-Raman Study of Live, Single Red Blood Cells (RBCs) Treated with AgNO ₃ Nanoparticles. PLoS ONE, 2014, 9, e103493. | 2.5 | 40 |
| 59 | Generation of stable colloidal gold nanoparticles by ultrashort laser-induced melting and fragmentation. Materials Research Express, 2014, 1, 035028. | 1.6 | 14 |
| 60 | Femtosecond laser induced forward transfer of indium thin films. Laser and Particle Beams, 2014, 32, 55-61. | 1.0 | 3 |
| 61 | DNA Damage by OH Radicals Produced Using Intense, Ultrashort, Long Wavelength Laser Pulses. Physical Review Letters, 2014, 112, 138105. | 7.8 | 30 |
| 62 | Supercontinuum generation in water by intense, femtosecond laser pulses under anomalous chromatic dispersion. Physical Review A, 2014, 89, . | 2.5 | 46 |
| 63 | Effect of group velocity dispersion on supercontinuum generation and filamentation in transparent solids. Applied Physics B: Lasers and Optics, 2014, 117, 471-479. | 2.2 | 32 |
| 64 | Parasite impairment by targeting Plasmodium-infected RBCs using glyceryl-dilaurate nanostructured lipid carriers. Biomaterials, 2014, 35, 6636-6645. | 11.4 | 28 |
| 65 | Deposition and alignment of cells on laser-patterned quartz. Applied Surface Science, 2014, 305, 375-381. | 6.1 | 19 |
| 66 | Direct Writing of Type-II Waveguides in Lithium Niobate using Ultrafast Fibre Laser. , 2014, , . | | 0 |
| 67 | Pattern formation in transparent media using ultrashort laser pulses. Optics Communications, 2013, 304, 29-38. | 2.1 | 15 |
| 68 | Supercontinuum generation in water doped with gold nanoparticles. Applied Physics Letters, 2013, 103, 111109. | 3.3 | 30 |
| 69 | Anomalies in the motion dynamics of long-flagella mutants of Chlamydomonas reinhardtii. Journal of Biological Physics, 2013, 39, 1-14. | 1.5 | 21 |
| 70 | Effect of chirp on the index contrast of waveguides written in BK7 glass with ultrashort laser pulses. Optics Communications, 2013, 287, 122-127. | 2.1 | 15 |
| 71 | Seventh-harmonic generation from tightly focused 2Â¼m ultrashort pulses in air. Optics Letters, 2013, 38, 2560. | 3.3 | 18 |
| 72 | Axicon-based writing of waveguides in BK7 glass. Optics Letters, 2013, 38, 172. | 3.3 | 11 |

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|----|--|-----|-----------|
| 73 | A search for the sulphur hexafluoride cation with intense, few cycle laser pulses. Journal of Chemical Physics, 2013, 139, 194302. | 3.0 | 5 |
| 74 | On the birefringence of healthy and malaria-infected red blood cells. Journal of Biomedical Optics, 2013, 18, 125001. | 2.6 | 13 |
| 75 | Carrier-Envelope-Phase Effects in Ultrafast Strong-Field Ionization Dynamics of Multielectron Systems: Xe and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{CS} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle .$ | 7.8 | 33 |
| 76 | Enhancing the Strength of an Optical Trap by Truncation. PLoS ONE, 2013, 8, e61310. | 2.5 | 3 |
| 77 | Quantum dynamics of proton migration in H ₂ O dications: H ₂ ⁺ formation on ultrafast timescales. Journal of Chemical Physics, 2012, 136, 024320. | 3.0 | 19 |
| 78 | Optical trapping in an absorbing medium: from optical tweezing to thermal tweezing. Optics Express, 2012, 20, 4645. | 3.4 | 27 |
| 79 | Intense Two-Cycle Laser Pulses Induce Time-Dependent Bond Hardening in a Polyatomic Molecule. Physical Review Letters, 2012, 108, 073602. | 7.8 | 18 |
| 80 | Femtosecond Laser-Induced Dot-pattern Formation in BK7 Glasses. , 2012, , . | | 0 |
| 81 | Laser-Driven Accelerated Growth of Dendritic Patterns in Liquids. Journal of Physical Chemistry C, 2012, 116, 11480-11485. | 3.1 | 6 |
| 82 | Quantum Dynamics of H ₂ ⁺ in Intense Laser Fields on Time-Dependent Potential Energy Surfaces. Journal of Physical Chemistry A, 2012, 116, 8762-8767. | 2.5 | 10 |
| 83 | Femtosecond laser filamentation in condensed media with Bessel beams. Physical Review A, 2012, 86, . | 2.5 | 23 |
| 84 | Micro-Raman Spectroscopy of Silver Nanoparticle Induced Stress on Optically-Trapped Stem Cells. PLoS ONE, 2012, 7, e35075. | 2.5 | 26 |
| 85 | Assembling Neurospheres: Dynamics of Neural Progenitor/Stem Cell Aggregation Probed Using an Optical Trap. PLoS ONE, 2012, 7, e38613. | 2.5 | 26 |
| 86 | Light scattering from a magnetically tunable dense random medium with dissipation: ferrofluid. European Physical Journal D, 2012, 66, 1. | 1.3 | 5 |
| 87 | Dynamics of atomic clusters in intense optical fields of ultrashort duration#. Journal of Chemical Sciences, 2012, 124, 75-81. | 1.5 | 5 |
| 88 | Third-order nonlinear optical response in transparent solids using ultrashort laser pulses. Applied Physics B: Lasers and Optics, 2012, 107, 703-709. | 2.2 | 14 |
| 89 | Femtosecond laser induced fabrication of a 1Å—2 splitter waveguide in BK7 glass. , 2012, , . | | 2 |
| 90 | Tank Treading of Optically Trapped Red Blood Cells in Shear Flow. Biophysical Journal, 2011, 101, 1604-1612. | 0.5 | 39 |

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|-----|--|-----|-----------|
| 91 | Dynamics of Photothermally Created Vaporously, Gaseous, and Mixed Microbubbles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6611-6617. | 3.1 | 16 |
| 92 | Effect of Intense, Ultrashort Laser Pulses on DNA Plasmids in their Native State: Strand Breakages Induced by <i>In Situ</i> Electrons and Radicals. <i>Physical Review Letters</i> , 2011, 106, 118101. | 7.8 | 31 |
| 93 | Writing low-loss waveguides in borosilicate (BK7) glass with a low-repetition-rate femtosecond laser. <i>Optics Communications</i> , 2011, 284, 630-634. | 2.1 | 38 |
| 94 | White Light Generation in Human Saliva. , 2011, , . | | 0 |
| 95 | A biophotonic study of live, flowing red blood cells in an optical trap. <i>Proceedings of SPIE</i> , 2010, , . | 0.8 | 0 |
| 96 | Supercontinuum generation in macromolecular media. <i>Applied Physics B: Lasers and Optics</i> , 2010, 99, 427-432. | 2.2 | 15 |
| 97 | Probing oxidative stress in single erythrocytes with Raman Tweezers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 100, 113-116. | 3.8 | 55 |
| 98 | Shape anisotropy induces rotations in optically trapped red blood cells. <i>Journal of Biomedical Optics</i> , 2010, 15, 041504. | 2.6 | 15 |
| 99 | Strong-field ionization and Coulomb explosion of argon clusters by few-cycle laser pulses. <i>Physical Review A</i> , 2010, 82, . | 2.5 | 22 |
| 100 | Communication: Ionization and Coulomb explosion of xenon clusters by intense, few-cycle laser pulses. <i>Journal of Chemical Physics</i> , 2010, 133, 061101. | 3.0 | 21 |
| 101 | Optical-tweezer-induced microbubbles as scavengers of carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 245102. | 2.6 | 23 |
| 102 | Propagation of Ultrashort Pulses in Condensed Media. <i>Springer Series in Chemical Physics</i> , 2010, , 81-108. | 0.2 | 1 |
| 103 | Raman Tweezers Spectroscopy of Live, Single Red and White Blood Cells. <i>PLoS ONE</i> , 2010, 5, e10427. | 2.5 | 134 |
| 104 | Strong-field ionization of molecules by few-cycle pulses. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012016. | 0.4 | 0 |
| 105 | Strong fields induce ultrafast rearrangement of H atoms in H ₂ O. <i>Journal of Chemical Physics</i> , 2009, 130, 231104. | 3.0 | 35 |
| 106 | Strong optical fields induce ultrafast rearrangement of H-atoms in ethanol molecules. <i>Laser Physics</i> , 2009, 19, 1686-1690. | 1.2 | 4 |
| 107 | Flagella-generated forces reveal gear-type motor in single cells of the green alga, <i>Chlamydomonas reinhardtii</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 266-270. | 2.1 | 7 |
| 108 | Bright visible emission from carbon nanotubes spatially constrained on a micro-bubble. <i>Optics Express</i> , 2009, 17, 9614. | 3.4 | 20 |

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|-----|--|-----|-----------|
| 109 | Broadband light emission from optically-trapped carbon nanotubes. Journal of Physics: Conference Series, 2009, 194, 012054. | 0.4 | 1 |
| 110 | Visualization of focusing and refocusing cycles during filamentation in BaF ₂ . Applied Physics B: Lasers and Optics, 2009, 94, 259-263. | 2.2 | 37 |
| 111 | Polarization and energy stability of filamentation-generated few-cycle pulses. Optics Express, 2008, 16, 7083. | 3.4 | 23 |
| 112 | Measuring erythrocyte deformability with fluorescence, fluid forces, and optical trapping. Journal of Biomedical Optics, 2008, 13, 1. | 2.6 | 39 |
| 113 | Molecular symmetry effects in the ionization of CS_2 by intense few-cycle laser pulses. Physical Review A, 2008, 78, . | 2.5 | 23 |
| 114 | Strong-field ionization of water by intense few-cycle laser pulses. Physical Review A, 2008, 78, . | 2.5 | 21 |
| 115 | Electron emission from atomic clusters irradiated with few cycle laser pulses. , 2008, , . | | 0 |
| 116 | Molecular Rearrangements in Intense Laser Fields. , 2008, , 75-91. | | 0 |
| 117 | Probing molecular symmetry effects in the ionization of N ₂ and O ₂ by intense laser fields. Journal of Chemical Physics, 2007, 127, 064310. | 3.0 | 27 |
| 118 | Suppression of ultrafast supercontinuum generation in a salivary protein. Journal of Biomedical Optics, 2007, 12, 020510. | 2.6 | 18 |
| 119 | High-resolution electron-ion coincidence spectroscopy of ethanol in intense laser fields. Physical Review A, 2007, 75, . | 2.5 | 9 |
| 120 | Control of the onset of filamentation in condensed media. Physical Review A, 2007, 76, . | 2.5 | 20 |
| 121 | Matter in Strong Optical Fields: Atoms, Molecules, and Living Matter. , 2007, , . | | 0 |
| 122 | Suppression of white light generation (supercontinuum) in biological media: a pilot study using human salivary proteins. , 2007, , . | | 0 |
| 123 | Electron emission and fragmentation of molecules in intense laser fields. Proceedings of SPIE, 2007, , . | 0.8 | 1 |
| 124 | Matter in strong fields: from molecules to living cells. Journal of Physics: Conference Series, 2007, 88, 012048. | 0.4 | 0 |
| 125 | Ionization of Linear Alcohols by Strong Optical Fields. Journal of Physical Chemistry A, 2007, 111, 9299-9306. | 2.5 | 13 |
| 126 | White-Light-Induced Fragmentation of Methane. Journal of Physical Chemistry A, 2007, 111, 9399-9404. | 2.5 | 8 |

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|-----|---|-----|-----------|
| 127 | Possible EIT-like effects in strong-field photo-dissociation of carbon disulphide. <i>Chemical Physics Letters</i> , 2007, 438, 31-35. | 2.6 | 4 |
| 128 | Strong-field ionization of alcohols: An electron spectroscopic study of ionization dynamics. <i>Chemical Physics Letters</i> , 2007, 439, 296-300. | 2.6 | 11 |
| 129 | Measurement of ultrashort laser pulses using single-crystal films of 4-aminobenzophenone. <i>Optics Communications</i> , 2007, 280, 472-476. | 2.1 | 8 |
| 130 | Study of <i>P. falciparum</i> -infected erythrocytes and induced anisotropies under optical and fluid forces. <i>Journal of Vector Borne Diseases</i> , 2007, 44, 23-32. | 0.4 | 1 |
| 131 | Depolarization of white light generated by ultrashort laser pulses in optical media. <i>Optics Letters</i> , 2006, 31, 2184. | 3.3 | 29 |
| 132 | Femtosecond laser written channel waveguides in tellurite glass. <i>Optics Express</i> , 2006, 14, 12145. | 3.4 | 106 |
| 133 | Characterization of doping levels in heteronuclear, gas-phase, van der Waals clusters and their energy absorption from an intense optical field. <i>Chemical Physics Letters</i> , 2006, 430, 26-31. | 2.6 | 12 |
| 134 | On the acceleration of ions from exploding clusters. <i>Laser Physics</i> , 2006, 16, 581-587. | 1.2 | 5 |
| 135 | Plasma effects and the modulation of white light spectra in the propagation of ultrashort, high-power laser pulses in barium fluoride. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 575-583. | 2.2 | 50 |
| 136 | Sensitive, real-time monitoring of UV-induced stress in a single, live plant cell using an optical trap. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 439-443. | 7.8 | 10 |
| 137 | Ion charge state distribution in the laser-induced Coulomb explosion of argon clusters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 625-632. | 1.5 | 19 |
| 138 | Energy pooling in multiple ionization and Coulomb explosion of clusters by nanosecond-long, megawatt laser pulses. <i>Journal of Chemical Physics</i> , 2006, 125, 034304. | 3.0 | 28 |
| 139 | Nonadiabatic response of molecules to strong fields of picosecond, femtosecond, and subfemtosecond duration: An experimental study of the methane dication. <i>Journal of Chemical Physics</i> , 2006, 124, 194308. | 3.0 | 18 |
| 140 | Engineering clusters for table-top acceleration of ions. <i>Applied Physics Letters</i> , 2006, 88, 041107. | 3.3 | 29 |
| 141 | Euler buckling-induced folding and rotation of red blood cells in an optical trap. <i>Physical Biology</i> , 2006, 3, 67-73. | 1.8 | 38 |
| 142 | Low-energy reactions of Si_6 . <i>Chemical Physics Letters</i> , 2006, 425, 1-5. | 2.6 | 3 |
| 143 | Systematic study of highly efficient white light generation in transparent materials using intense femtosecond laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2005, 80, 61-66. | 2.2 | 62 |
| 144 | Enhancement of x-ray yields from heteronuclear cluster plasmas irradiated by intense laser light. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, L291-L299. | 1.5 | 35 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | Optically-controllable, micron-sized motor based on live cells. Optics Express, 2005, 13, 1555. | 3.4 | 13 |
| 146 | Efficient broadband emission from condensed media irradiated by low-intensity, unfocused, ultrashort laser light. Optics Express, 2005, 13, 8555. | 3.4 | 11 |
| 147 | Coulombic and non-Coulombic fragmentation of highly charged benzene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1699-1707. | 1.5 | 20 |
| 148 | Dissociative ionization of methane by chirped pulses of intense laser light. Journal of Chemical Physics, 2004, 120, 5616-5623. | 3.0 | 28 |
| 149 | Strong light fields coax intramolecular reactions on femtosecond time scales. Journal of Chemical Physics, 2004, 121, 9765-9768. | 3.0 | 28 |
| 150 | Anisotropic charge-flipping acceleration of highly charged ions from clusters in strong optical fields. Physical Review A, 2004, 69, . | 2.5 | 58 |
| 151 | Naturally occurring, optically driven, cellular rotor. Applied Physics Letters, 2004, 85, 6048-6050. | 3.3 | 38 |
| 152 | Structure and dynamics of molecules in high charge states. Physics Reports, 2004, 391, 1-118. | 25.6 | 166 |
| 153 | All-optical switching with bacteriorhodopsin. Optics Communications, 2004, 237, 251-256. | 2.1 | 39 |
| 154 | Highly efficient white light generation from barium fluoride. Optics Express, 2004, 12, 695. | 3.4 | 45 |
| 155 | Torque-generating malaria-infected red blood cells in an optical trap. Optics Express, 2004, 12, 1179. | 3.4 | 65 |
| 156 | CLUSTER DYNAMICS IN INTENSE LASER FIELDS. Advances in Multi-photon Processes and Spectroscopy, 2004, , 273-306. | 0.6 | 5 |
| 157 | Electron rescattering and the fragmentation dynamics of molecules in strong optical fields. Physical Review A, 2003, 68, . | 2.5 | 32 |
| 158 | Two-photon pumped lasing from methanol micro-droplets doped by a weakly fluorescent dye. Chemical Physics Letters, 2003, 372, 263-268. | 2.6 | 20 |
| 159 | Asymmetric emission of high-energy electrons in the two-dimensional hydrodynamic expansion of large xenon clusters irradiated by intense laser fields. Physical Review A, 2003, 67, . | 2.5 | 80 |
| 160 | Electron rescattering and the dissociative ionization of alcohols in intense laser light. Journal of Chemical Physics, 2003, 119, 12224-12230. | 3.0 | 39 |
| 161 | Explosions of water clusters in intense laser fields. Physical Review A, 2003, 67, . | 2.5 | 36 |
| 162 | Two-dimensional effects in the hydrodynamic expansion of xenon clusters under intense laser irradiation. Physical Review A, 2002, 66, . | 2.5 | 82 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Propensity of Molecules to Spatially Align In Linearly-Polarized, Intense Light Fields. ACS Symposium Series, 2002, , 336-349. | 0.5 | 0 |
| 164 | Multi-hit, position-sensitive, time-of-flight spectrometry using a modified-backgammon-weighted-capacitor anode. International Journal of Mass Spectrometry, 2002, 215, 151-162. | 1.5 | 7 |
| 165 | Photoion imaging spectrometry in intense laser fields. International Journal of Mass Spectrometry, 2002, 215, 163-173. | 1.5 | 2 |
| 166 | Asymmetric High-Energy Ion Emission from Argon Clusters in Intense Laser Fields. Physical Review Letters, 2001, 87, 085005. | 7.8 | 136 |
| 167 | HCl-Induced Molecule Fragmentation: non-Coulombic Explosion and Three-Body Effects. Physica Scripta, 2001, T92, 89-95. | 2.5 | 13 |
| 168 | Fragmentation dynamics of $CS_2^q+(q=3\hat{a}€“10)$ molecular ions. Physical Review A, 2001, 64, . | 2.5 | 24 |
| 169 | Propensity of molecules to spatially align in intense light fields. Physical Review A, 2001, 63, . | 2.5 | 26 |
| 170 | Effect of laser polarization on x-ray emission from $Ar_n(n=200\hat{a}€“104)$ clusters in intense laser fields. Physical Review A, 2001, 63, . | 2.5 | 47 |
| 171 | Irradiation of benzene molecules by ion-induced and light-induced intense fields. Physical Review A, 2001, 63, . | 2.5 | 11 |
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