# Guang S He

List of Publications by Year
in descending order

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|---|---|---|---|
| 58 papers | 5,910 citations | 172457 29 h-index | 133252 59 g-index |
| 61 all docs | 61 docs citations | 61 times ranked | 5111 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Multiphoton Absorbing Materials:â€‰ Molecular Designs, Characterizations, and Applications. Chemical Reviews, 2008, 108, 1245-1330. | 47.7 | 1,906 |
| 2 | Two-photon absorption and optical-limiting properties of novel organic compounds. Optics Letters, 1995, 20, 435. | 3.3 | 458 |
| 3 | Cooperative Enhancement of Two-Photon Absorption in Multi-branched Structures. Journal of Physical Chemistry B, 1999, 103, 10741-10745. | 2.6 | 428 |
| 4 | Observation of stimulated emission by direct three-photon excitation. Nature, 2002, 415, 767-770. | 27.8 | 363 |
| 5 | Optical limiting effect in a twoâ€photon absorption dye doped solid matrix. Applied Physics Letters, 1995, 67, 2433-2435. | 3.3 | 340 |
| 6 | Twoâ€photon pumped cavity lasing in novel dye doped bulk matrix rods. Applied Physics Letters, 1995, 67, 3703-3705. | 3.3 | 181 |
| 7 | Multi-photon excitation properties of CdSe quantum dots solutions and optical limiting behavior in infrared range. Optics Express, 2007, 15, 12818. | 3.4 | 156 |
| 8 | Nonlinear optical properties of a new chromophore. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 1079. | 2.1 | 148 |
| 9 | Studies of two-photon pumped frequency-upconverted lasing properties of a new dye material. Journal of Applied Physics, 1997, 81, 2529-2537. | 2.5 | 142 |
| 10 | Optical phase conjugation: principles, techniques, and applications. Progress in Quantum Electronics, 2002, 26, 131-191. | 7.0 | 140 |
| 11 | Twisted Ï€-System Chromophores for All-Optical Switching. Journal of the American Chemical Society, 2011, 133, 6675-6680. | 13.7 | 128 |
| 12 | Synthesis, Characterization, Twoâ€Photon Absorption, and Optical Limiting Properties of Ladderâ€Type Oligoâ€pâ€phenyleneâ€Cored Chromophores. Advanced Functional Materials, 2008, 18, 2770-2779. | 14.9 | 107 |
| 13 | Two-Photon Excitation and Optical Spatial-Profile Reshaping via a Nonlinear Absorbing Mediumâ€. Journal of Physical Chemistry A, 2000, 104, 4805-4810. | 2.5 | 104 |
| 14 | Degenerate two-/three-photon absorption and optical power-limiting properties in femtosecond regime of a multi-branched chromophore. Journal of Materials Chemistry, 2006, 16, 2490. | 6.7 | 101 |
| 15 | Degenerate nonlinear absorption and optical power limiting properties of asymmetrically substituted stilbenoid chromophoresElectronic supplementary information (ESI) available: Experimental details. See http://www.rsc.org/suppdata/jm/b3/b313185h/. Journal of Materials Chemistry, 2004, 14, 982. | 6.7 | 95 |
| 16 | Two- and Three-Photon Absorption and Frequency Upconverted Emission of Silicon Quantum Dots. Nano Letters, 2008, 8, 2688-2692. | 9.1 | 92 |
| 17 | Degenerate two-photon-absorption spectral studies of highly two-photon active organic chromophores. Journal of Chemical Physics, 2004, 120, 5275-5284. | 3.0 | 74 |
| 18 | Upconversion dyeâ€doped polymer fiber laser. Applied Physics Letters, 1996, 68, 3549-3551. | 3.3 | 71 |

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|---|---|---|---|
| 19 | Synthesis and properties of substituted (p-aminostyryl)-1-(3-sulfooxypropyl)pyridinium inner salts as a new class of two-photon pumped lasing dyesElectronic supplementary information (ESI) available: synthesis details for compounds 7b, 7c, 8b and 8c. See http://www.rsc.org/suppdata/jm/b3/b307504d/. Journal of Materials Chemistry, 2003, 13, 2499. | 6.7 | 71 |
| 20 | Novel two-photon-absorbing, 1,10-phenanthroline-containing Ï€-conjugated chromophores and their nickel(ii) chelated complexes with quenched emissions. Journal of Materials Chemistry, 2005, 15, 579-587. | 6.7 | 64 |
| 21 | Rayleigh, Mie, and Tyndall scatterings of polystyrene microspheres in water: Wavelength, size, and angle dependences. Journal of Applied Physics, 2009, 105, . | 2.5 | 63 |
| 22 | Synthesis, two- and three-photon absorption, and optical limiting properties of fluorene-containing ferrocene derivatives. Journal of Materials Chemistry, 2005, 15, 3488. | 6.7 | 56 |
| 23 | Scattering and Absorption Cross-Section Spectral Measurements of Gold Nanorods in Water. Journal of Physical Chemistry C, 2010, 114, 2853-2860. | 3.1 | 56 |
| 24 | Stimulated Kerr scattering and reorientation work of molecules in liquidCS2. Physical Review A, 1990, 41, 2687-2697. | 2.5 | 54 |
| 25 | Cooperative Coupling of Cyanine and Tictoid Twisted Ï€-Systems to Amplify Organic Chromophore Cubic Nonlinearities. Journal of the American Chemical Society, 2015, 137, 4622-4625. | 13.7 | 51 |
| 26 | Infrared two-photon-excited visible lasing from a DNA-surfactant-chromophore complex. Optics Letters, 2006, 31, 359. | 3.3 | 46 |
| 27 | Saturation of multiphoton absorption upon strong and ultrafast infrared laser excitation. Journal of Applied Physics, 2007, 101, 083108. | 2.5 | 37 |
| 28 | Two-photon pumped partially cross-linked polymer laser. Applied Physics Letters, 1997, 71, 1619-1621. | 3.3 | 35 |
| 29 | A novel nonlinear optical effect: Stimulated Ramanâ€“Kerr scattering in a benzene liquidâ€core fiber. Journal of Chemical Physics, 1990, 93, 7647-7655. | 3.0 | 33 |
| 30 | Two-photon excited intramolecular energy transfer and light-harvesting effect in novel dendritic systems. Optics Letters, 2003, 28, 768. | 3.3 | 29 |
| 31 | Ultrashort 15-Âµm laser excited upconverted stimulated emission based on simultaneous three-photon absorption. Optics Letters, 2003, 28, 719. | 3.3 | 25 |
| 32 | Nonlinear optical absorption and stimulated Mie scattering in metallic nanoparticle suspensions. Journal of Chemical Physics, 2013, 138, 024202. | 3.0 | 22 |
| 33 | Stimulated Rayleigh-Bragg scattering in two-photon absorbing media. Physical Review A, 2005, 71, . | 2.5 | 21 |
| 34 | Chapter 4 Stimulated Scattering Effects of Intense Coherent Light. Progress in Optics, 2009, , 201-292. | 0.6 | 21 |
| 35 | Stimulated Rayleigh-Bragg scattering enhanced by two-photon excitation. Optics Express, 2004, 12, 5952. | 3.4 | 20 |
| 36 | Surfaceâ€enhanced Raman scattering and DFT calculations studies of 3,3â€²â€diethylthiatriâ€carbocyanine iodide. Journal of Raman Spectroscopy, 2011, 42, 1722-1727. | 2.5 | 18 |

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|---|---|---|---|
| 37 | Observation of stimulated Mie-Bragg scattering from large-size-gold-nanorod suspension in water. Physical Review A, 2012, 85, . | 2.5 | 18 |
| 38 | Polarimetric zâ€Scan Study of Nonlinear Chirooptic Properties of Chiral Polyfluorene. Advanced Optical Materials, 2013, 1, 763-767. | 7.3 | 16 |
| 39 | Stimulated Mie scattering in nanocrystals suspension. Applied Physics Letters, 2012, 101, 011110. | 3.3 | 13 |
| 40 | Laser ablation for pharmaceutical nanoformulations: Multi-drug nanoencapsulation and theranostics for HIV. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 25, 102172. | 3.3 | 13 |
| 41 | Pump spectral linewidth influence on stimulated Brillouin scattering (SBS) and stimulated Raman scattering (SRS) and selfâ€termination behavior of SRS in liquids. Annalen Der Physik, 2016, 528, 852-864. | 2.4 | 11 |
| 42 | Dynamic properties and optical phase conjugation of two-photon pumped ultrashort blue stimulated emission in a chromophore solution. Physical Review A, 2008, 77, . | 2.5 | 10 |
| 43 | Enhanced photorefractivity in a polymer/nanocrystal composite photorefractive device at telecommunication wavelength. Applied Physics Letters, 2010, 97, 263108. | 3.3 | 10 |
| 44 | Spectral properties of backward stimulated scattering in liquid carbon disulfide. Journal of Experimental and Theoretical Physics, 1997, 85, 850-856. | 0.9 | 8 |
| 45 | Highly efficient and two-photon excited stimulated Rayleigh-Bragg scattering in organic solutions. Journal of Applied Physics, 2015, 118, 033102. | 2.5 | 8 |
| 46 | Stimulated Rayleigh-Bragg scattering in a three-photon absorbing medium and its phase-conjugation property. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1166. | 2.1 | 7 |
| 47 | Superior optical limiting, stabilization, and spatio-temporal reshaping of ultrashort laser pulses in an opto-stable intrinsic polymer film. Optics Letters, 2011, 36, 4431. | 3.3 | 7 |
| 48 | Multi-Photon Excitation Based Nonlinear Optical Effects and Applications. Progress in Optics, 2019, 64, 155-278. | 0.6 | 7 |
| 49 | Multifocus Structures of Ultrashort Self-Focusing Laser Beam Observed in a Three-Photon Fluorescent Medium. IEEE Journal of Quantum Electronics, 2009, 45, 816-824. | 1.9 | 5 |
| 50 | Quasi-collinear and partially degenerate four-wave mixing: An alternative explanation of the phase-conjugation property of backward stimulated scattering. Journal of Experimental and Theoretical Physics, 1999, 88, 235-245. | 0.9 | 3 |
| 51 | Nanophotonics: Nanoscale Optical Interactions. Molecular Crystals and Liquid Crystals, 2002, 374, 59-66. | 0.9 | 3 |
| 52 | Backward stimulated Bragg scattering in multiphoton active CdTexSe1â^'x quantum dots system. Journal of Chemical Physics, 2009, 131, 214301. | 3.0 | 3 |
| 53 | Two-Photon Excitation Enhanced High-Efficiency and Phase-Conjugate Stimulated Mie Scattering of Perovskite Nanocrystals Suspended in n-Hexane. Journal of Physical Chemistry C, 2020, 124, 25944-25950. | 3.1 | 3 |
| 54 | Multiphoton Resonant Nonlinear Optical Processes in Organic Molecules. ACS Symposium Series, 1996, , 225-236. | 0.5 | 2 |

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| 55 | Strong Stimulated Mie Scattering From Plasmonic CuS Nanocrystals in Toluene or Pentane. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-6. | 2.9 | 2 |
| 56 | Mechanism of stimulated Mie scattering: Light-induced redistribution of self-assembled nanospheres of two-photon absorbing chromophore. Journal of Chemical Physics, 2019, 151, 104202. | 3.0 | 2 |
| 57 | Dynamic properties of ultrashort two-photon pumped transient cavityless lasing in a Coumarin-dye solution. Journal of Optics (United Kingdom), 2019, 21, 105502. | 2.2 | 1 |
| 58 | Multi-Photon Materials, Techniques and Applications. , 2006, , . | | 0 |