

Guang S He

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Two-Photon Excitation Enhanced High-Efficiency and Phase-Conjugate Stimulated Mie Scattering of Perovskite Nanocrystals Suspended in <i>n</i> -Hexane. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25944-25950.	3.1	3
2	Laser ablation for pharmaceutical nanoformulations: Multi-drug nanoencapsulation and theranostics for HIV. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 25, 102172.	3.3	13
3	Mechanism of stimulated Mie scattering: Light-induced redistribution of self-assembled nanospheres of two-photon absorbing chromophore. <i>Journal of Chemical Physics</i> , 2019, 151, 104202.	3.0	2
4	Dynamic properties of ultrashort two-photon pumped transient cavityless lasing in a Coumarin-dye solution. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 105502.	2.2	1
5	Multi-Photon Excitation Based Nonlinear Optical Effects and Applications. <i>Progress in Optics</i> , 2019, 64, 155-278.	0.6	7
6	Strong Stimulated Mie Scattering From Plasmonic CuS Nanocrystals in Toluene or Pentane. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-6.	2.9	2
7	Pump spectral linewidth influence on stimulated Brillouin scattering (SBS) and stimulated Raman scattering (SRS) and self-termination behavior of SRS in liquids. <i>Annalen Der Physik</i> , 2016, 528, 852-864.	2.4	11
8	Highly efficient and two-photon excited stimulated Rayleigh-Bragg scattering in organic solutions. <i>Journal of Applied Physics</i> , 2015, 118, 033102.	2.5	8
9	Cooperative Coupling of Cyanine and Tictoid Twisted π -Systems to Amplify Organic Chromophore Cubic Nonlinearities. <i>Journal of the American Chemical Society</i> , 2015, 137, 4622-4625.	13.7	51
10	Polarimetric μ -Scan Study of Nonlinear Chiroptic Properties of Chiral Polyfluorene. <i>Advanced Optical Materials</i> , 2013, 1, 763-767.	7.3	16
11	Nonlinear optical absorption and stimulated Mie scattering in metallic nanoparticle suspensions. <i>Journal of Chemical Physics</i> , 2013, 138, 024202.	3.0	22
12	Observation of stimulated Mie-Bragg scattering from large-size-gold-nanorod suspension in water. <i>Physical Review A</i> , 2012, 85, .	2.5	18
13	Stimulated Mie scattering in nanocrystals suspension. <i>Applied Physics Letters</i> , 2012, 101, 011110.	3.3	13
14	Twisted π -System Chromophores for All-Optical Switching. <i>Journal of the American Chemical Society</i> , 2011, 133, 6675-6680.	13.7	128
15	Superior optical limiting, stabilization, and spatio-temporal reshaping of ultrashort laser pulses in an opto-stable intrinsic polymer film. <i>Optics Letters</i> , 2011, 36, 4431.	3.3	7
16	Surface-enhanced Raman scattering and DFT calculations studies of 3,3'-diethylthiatriene-carbocyanine iodide. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1722-1727.	2.5	18
17	Enhanced photorefractivity in a polymer/nanocrystal composite photorefractive device at telecommunication wavelength. <i>Applied Physics Letters</i> , 2010, 97, 263108.	3.3	10
18	Scattering and Absorption Cross-Section Spectral Measurements of Gold Nanorods in Water. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2853-2860.	3.1	56

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19	Backward stimulated Bragg scattering in multiphoton active CdTeSe quantum dots system. Journal of Chemical Physics, 2009, 131, 214301.	3.0	3
20	Rayleigh, Mie, and Tyndall scatterings of polystyrene microspheres in water: Wavelength, size, and angle dependences. Journal of Applied Physics, 2009, 105, .	2.5	63
21	Chapter 4 Stimulated Scattering Effects of Intense Coherent Light. Progress in Optics, 2009, , 201-292.	0.6	21
22	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
23	Synthesis, Characterization, Two-Photon Absorption, and Optical Limiting Properties of Ladder-Type Oligo(phenylene)-Cored Chromophores. Advanced Functional Materials, 2008, 18, 2770-2779.	14.9	107
24	Two- and Three-Photon Absorption and Frequency Upconverted Emission of Silicon Quantum Dots. Nano Letters, 2008, 8, 2688-2692.	9.1	92
25	Multiphoton Absorbing Materials: Molecular Designs, Characterizations, and Applications. Chemical Reviews, 2008, 108, 1245-1330.	47.7	1,906
26	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
27	Saturation of multiphoton absorption upon strong and ultrafast infrared laser excitation. Journal of Applied Physics, 2007, 101, 083108.	2.5	37
28	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
29	Multi-photon excitation properties of CdSe quantum dots solutions and optical limiting behavior in infrared range. Optics Express, 2007, 15, 12818.	3.4	156
30	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
31	Infrared two-photon-excited visible lasing from a DNA-surfactant-chromophore complex. Optics Letters, 2006, 31, 359.	3.3	46
32	Multi-Photon Materials, Techniques and Applications. , 2006, , .		0
33	Stimulated Rayleigh-Bragg scattering in two-photon absorbing media. Physical Review A, 2005, 71, .	2.5	21
34	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
35	Novel two-photon-absorbing, 1,10-phenanthroline-containing π -conjugated chromophores and their nickel(ii) chelated complexes with quenched emissions. Journal of Materials Chemistry, 2005, 15, 579-587.	6.7	64
36	Degenerate two-photon-absorption spectral studies of highly two-photon active organic chromophores. Journal of Chemical Physics, 2004, 120, 5275-5284.	3.0	74

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37	Degenerate nonlinear absorption and optical power limiting properties of asymmetrically substituted stilbenoid chromophores. Electronic supplementary information (ESI) available: Experimental details. See http://www.rsc.org/suppdata/jm/b3/b313185h/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 982.	6.7	95
38	Stimulated Rayleigh-Bragg scattering enhanced by two-photon excitation. <i>Optics Express</i> , 2004, 12, 5952.	3.4	20
39	Ultrashort 15-Åm laser excited upconverted stimulated emission based on simultaneous three-photon absorption. <i>Optics Letters</i> , 2003, 28, 719.	3.3	25
40	Two-photon excited intramolecular energy transfer and light-harvesting effect in novel dendritic systems. <i>Optics Letters</i> , 2003, 28, 768.	3.3	29
41	Synthesis and properties of substituted (p-aminostyryl)-1-(3-sulfoxypropyl)pyridinium inner salts as a new class of two-photon pumped lasing dyes. Electronic supplementary information (ESI) available: synthesis details for compounds 7b, 7c, 8b and 8c. See http://www.rsc.org/suppdata/jm/b3/b307504d/ . <i>Journal of Materials Chemistry</i> , 2003, 13, 2499.	6.7	71
42	Nanophotonics: Nanoscale Optical Interactions. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 374, 59-66.	0.9	3
43	Optical phase conjugation: principles, techniques, and applications. <i>Progress in Quantum Electronics</i> , 2002, 26, 131-191.	7.0	140
44	Observation of stimulated emission by direct three-photon excitation. <i>Nature</i> , 2002, 415, 767-770.	27.8	363
45	Two-Photon Excitation and Optical Spatial-Profile Reshaping via a Nonlinear Absorbing Medium. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4805-4810.	2.5	104
46	Quasi-collinear and partially degenerate four-wave mixing: An alternative explanation of the phase-conjugation property of backward stimulated scattering. <i>Journal of Experimental and Theoretical Physics</i> , 1999, 88, 235-245.	0.9	3
47	Cooperative Enhancement of Two-Photon Absorption in Multi-branched Structures. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10741-10745.	2.6	428
48	Studies of two-photon pumped frequency-upconverted lasing properties of a new dye material. <i>Journal of Applied Physics</i> , 1997, 81, 2529-2537.	2.5	142
49	Two-photon pumped partially cross-linked polymer laser. <i>Applied Physics Letters</i> , 1997, 71, 1619-1621.	3.3	35
50	Nonlinear optical properties of a new chromophore. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997, 14, 1079.	2.1	148
51	Spectral properties of backward stimulated scattering in liquid carbon disulfide. <i>Journal of Experimental and Theoretical Physics</i> , 1997, 85, 850-856.	0.9	8
52	Upconversion dye-doped polymer fiber laser. <i>Applied Physics Letters</i> , 1996, 68, 3549-3551.	3.3	71
53	Multiphoton Resonant Nonlinear Optical Processes in Organic Molecules. <i>ACS Symposium Series</i> , 1996, , 225-236.	0.5	2
54	Two-photon absorption and optical-limiting properties of novel organic compounds. <i>Optics Letters</i> , 1995, 20, 435.	3.3	458

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55	Two-photon pumped cavity lasing in novel dye doped bulk matrix rods. Applied Physics Letters, 1995, 67, 3703-3705.	3.3	181
56	Optical limiting effect in a two-photon absorption dye doped solid matrix. Applied Physics Letters, 1995, 67, 2433-2435.	3.3	340
57	Stimulated Kerr scattering and reorientation work of molecules in liquidCS ₂ . Physical Review A, 1990, 41, 2687-2697.	2.5	54
58	A novel nonlinear optical effect: Stimulated Raman-Kerr scattering in a benzene liquid-core fiber. Journal of Chemical Physics, 1990, 93, 7647-7655.	3.0	33