

Guang S He

List of Publications by Year in descending order

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58
papers

5,910
citations

172207

29
h-index

133063

59
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61
all docs

61
docs citations

61
times ranked

5111
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiphoton Absorbing Materials: Molecular Designs, Characterizations, and Applications. <i>Chemical Reviews</i> , 2008, 108, 1245-1330.	23.0	1,906
2	Two-photon absorption and optical-limiting properties of novel organic compounds. <i>Optics Letters</i> , 1995, 20, 435.	1.7	458
3	Cooperative Enhancement of Two-Photon Absorption in Multi-branched Structures. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10741-10745.	1.2	428
4	Observation of stimulated emission by direct three-photon excitation. <i>Nature</i> , 2002, 415, 767-770.	13.7	363
5	Optical limiting effect in a two-photon absorption dye doped solid matrix. <i>Applied Physics Letters</i> , 1995, 67, 2433-2435.	1.5	340
6	Two-photon pumped cavity lasing in novel dye doped bulk matrix rods. <i>Applied Physics Letters</i> , 1995, 67, 3703-3705.	1.5	181
7	Multi-photon excitation properties of CdSe quantum dots solutions and optical limiting behavior in infrared range. <i>Optics Express</i> , 2007, 15, 12818.	1.7	156
8	Nonlinear optical properties of a new chromophore. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997, 14, 1079.	0.9	148
9	Studies of two-photon pumped frequency-upconverted lasing properties of a new dye material. <i>Journal of Applied Physics</i> , 1997, 81, 2529-2537.	1.1	142
10	Optical phase conjugation: principles, techniques, and applications. <i>Progress in Quantum Electronics</i> , 2002, 26, 131-191.	3.5	140
11	Twisted π -System Chromophores for All-Optical Switching. <i>Journal of the American Chemical Society</i> , 2011, 133, 6675-6680.	6.6	128
12	Synthesis, Characterization, Two-Photon Absorption, and Optical Limiting Properties of Ladder-Type Oligo(phenylene)-Cored Chromophores. <i>Advanced Functional Materials</i> , 2008, 18, 2770-2779.	7.8	107
13	Two-Photon Excitation and Optical Spatial-Profile Reshaping via a Nonlinear Absorbing Medium. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4805-4810.	1.1	104
14	Degenerate two-/three-photon absorption and optical power-limiting properties in femtosecond regime of a multi-branched chromophore. <i>Journal of Materials Chemistry</i> , 2006, 16, 2490.	6.7	101
15	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
16	Two- and Three-Photon Absorption and Frequency Upconverted Emission of Silicon Quantum Dots. <i>Nano Letters</i> , 2008, 8, 2688-2692.	4.5	92
17	Degenerate two-photon-absorption spectral studies of highly two-photon active organic chromophores. <i>Journal of Chemical Physics</i> , 2004, 120, 5275-5284.	1.2	74
18	Upconversion dye-doped polymer fiber laser. <i>Applied Physics Letters</i> , 1996, 68, 3549-3551.	1.5	71

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19	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/ . Journal of Materials Chemistry, 2003, 13, 2499.	6.7	71
20	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
21	Rayleigh, Mie, and Tyndall scatterings of polystyrene microspheres in water: Wavelength, size, and angle dependences. Journal of Applied Physics, 2009, 105, .	1.1	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.	1.5	56
24	Stimulated Kerr scattering and reorientation work of molecules in liquid CS ₂ . Physical Review A, 1990, 41, 2687-2697.	1.0	54
25	Cooperative Coupling of Cyanine and Tictoid Twisted π -Systems to Amplify Organic Chromophore Cubic Nonlinearities. Journal of the American Chemical Society, 2015, 137, 4622-4625.	6.6	51
26	Infrared two-photon-excited visible lasing from a DNA-surfactant-chromophore complex. Optics Letters, 2006, 31, 359.	1.7	46
27	Saturation of multiphoton absorption upon strong and ultrafast infrared laser excitation. Journal of Applied Physics, 2007, 101, 083108.	1.1	37
28	Two-photon pumped partially cross-linked polymer laser. Applied Physics Letters, 1997, 71, 1619-1621.	1.5	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.	1.2	33
30	Two-photon excited intramolecular energy transfer and light-harvesting effect in novel dendritic systems. Optics Letters, 2003, 28, 768.	1.7	29
31	Ultrashort 15-Åm laser excited upconverted stimulated emission based on simultaneous three-photon absorption. Optics Letters, 2003, 28, 719.	1.7	25
32	Nonlinear optical absorption and stimulated Mie scattering in metallic nanoparticle suspensions. Journal of Chemical Physics, 2013, 138, 024202.	1.2	22
33	Stimulated Rayleigh-Bragg scattering in two-photon absorbing media. Physical Review A, 2005, 71, .	1.0	21
34	Chapter 4 Stimulated Scattering Effects of Intense Coherent Light. Progress in Optics, 2009, , 201-292.	0.4	21
35	Stimulated Rayleigh-Bragg scattering enhanced by two-photon excitation. Optics Express, 2004, 12, 5952.	1.7	20
36	Surfaceâ€“enhanced Raman scattering and DFT calculations studies of 3,3â€“diethylthiatriâ€“carbocyanine iodide. Journal of Raman Spectroscopy, 2011, 42, 1722-1727.	1.2	18

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37	Observation of stimulated Mie-Bragg scattering from large-size-gold-nanorod suspension in water. <i>Physical Review A</i> , 2012, 85, .	1.0	18
38	Polarimetric μ -Scan Study of Nonlinear Chiroptic Properties of Chiral Polyfluorene. <i>Advanced Optical Materials</i> , 2013, 1, 763-767.	3.6	16
39	Stimulated Mie scattering in nanocrystals suspension. <i>Applied Physics Letters</i> , 2012, 101, 011110.	1.5	13
40	Laser ablation for pharmaceutical nanoformulations: Multi-drug nanoencapsulation and theranostics for HIV. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 25, 102172.	1.7	13
41	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.	0.9	11
42	Dynamic properties and optical phase conjugation of two-photon pumped ultrashort blue stimulated emission in a chromophore solution. <i>Physical Review A</i> , 2008, 77, .	1.0	10
43	Enhanced photorefractivity in a polymer/nanocrystal composite photorefractive device at telecommunication wavelength. <i>Applied Physics Letters</i> , 2010, 97, 263108.	1.5	10
44	Spectral properties of backward stimulated scattering in liquid carbon disulfide. <i>Journal of Experimental and Theoretical Physics</i> , 1997, 85, 850-856.	0.2	8
45	Highly efficient and two-photon excited stimulated Rayleigh-Bragg scattering in organic solutions. <i>Journal of Applied Physics</i> , 2015, 118, 033102.	1.1	8
46	Stimulated Rayleigh-Bragg scattering in a three-photon absorbing medium and its phase-conjugation property. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 1166.	0.9	7
47	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.	1.7	7
48	Multi-Photon Excitation Based Nonlinear Optical Effects and Applications. <i>Progress in Optics</i> , 2019, 64, 155-278.	0.4	7
49	Multifocus Structures of Ultrashort Self-Focusing Laser Beam Observed in a Three-Photon Fluorescent Medium. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 816-824.	1.0	5
50	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.	0.2	3
51	Nanophotonics: Nanoscale Optical Interactions. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 374, 59-66.	0.4	3
52	Backward stimulated Bragg scattering in multiphoton active CdTexSe $_{1-x}$ quantum dots system. <i>Journal of Chemical Physics</i> , 2009, 131, 214301.	1.2	3
53	Two-Photon Excitation Enhanced High-Efficiency and Phase-Conjugate Stimulated Mie Scattering of Perovskite Nanocrystals Suspended in n -Hexane. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25944-25950.	1.5	3
54	Multiphoton Resonant Nonlinear Optical Processes in Organic Molecules. <i>ACS Symposium Series</i> , 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.	1.9	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.	1.2	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.	1.0	1
58	Multi-Photon Materials, Techniques and Applications. , 2006, , .		0