Lino Misoguti

List of Publications by Year
in descending order

112 papers	2,650 citations	159585 30 h-index	223800 46 g-index
113 all docs	113 docs citations	113 times ranked	2476 citing authors

#	Article	IF	Citations
1	Modeling the First-Order Molecular Hyperpolarizability Dispersion from Experimentally Obtained One- and Two-Photon Absorption. Journal of Physical Chemistry A, 2022, 126, 2152-2159.	2.5	5
2	Effective Ï€-electron number and symmetry perturbation effect on the two-photon absorption of oligofluorenes. Physical Chemistry Chemical Physics, 2021, 23, 18602-18609.	2.8	7
3	Investigation of the triplet excited state and application of cationic meso-tetra(cisplatin)porphyrins in antimicrobial photodynamic therapy. Photodiagnosis and Photodynamic Therapy, 2021, 35, 102459.	2.6	13
4	Effects of meso-tetrakis (4-sulfonatophenyl) porphyrin (TPPS4) aggregation on its spectral and kinetic characteristics and singlet oxygen production. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120063.	3.9	8
5	Discrimination between two distinct nonlinear effects by polarization-resolved Z-scan measurements. Optics Express, 2020, 28, 3352.	3.4	14
6	Absolute Nonlinear Refractive Index Spectra Determination of Organic Molecules in Solutions. Journal of Physical Chemistry A, 2019, 123, 951-957.	2.5	8
7	Influence of lattice modifier on the nonlinear refractive index of tellurite glass. Ceramics International, 2017, 43, 15201-15204.	4.8	24
8	Measurement of third-order nonlinearities in selected solvents as a function of the pulse width. Optics Express, 2017, 25, 3553.	3.4	26
9	Nonlinear optical waveguides in As_2S_3-Ag_2S chalcogenide glass thin films. Optical Materials Express, 2017, 7, 93.	3.0	17
10	Measurement of nonlinear refractive indices of air, oxygen, and nitrogen in capillary by changing the temporal width of short laser pulses. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2233.	2.1	2
11	Comparative study of electronic and orientational nonlinear refractive indices with nonlinear ellipse rotation measurements. Journal of the Optical Society of America B: Optical Physics, 2016, 33, E40.	2.1	5
12	Spectral phase transfer from near IR to deep UV by broadband phase-matched four-wave mixing in an argon-filled hollow core waveguide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 195601.	1.5	3
13	Third-harmonic generation at the interfaces of a cuvette filled with selected organic solvents. Applied Optics, 2016, 55, 595.	2.1	3
14	GLASSY MATERIALS AND LIGHT: PART 1. Quimica Nova, 2016, , .	0.3	0
15	GLASSY MATERIALS AND LIGHT: PART 2. Quimica Nova, 2016, , .	0.3	0
16	Nonlinear ellipse rotation measurements in optical thick samples. Applied Physics B: Lasers and Optics, 2015, 120, 653-658.	2.2	23
17	Femtosecond laser fabrication of waveguides in Rhodamine B-doped GPTS/TEOS-derived organic/silica monolithic xerogel. Optical Materials, 2015, 47, 310-314.	3.6	11
18	Excited-state absorption of meso-tetrasulfonatophenyl porphyrin: Effects of pH and micelles. Optical Materials, 2015, 42, 516-521.	3.6	11

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19	High-resolution nonlinear ellipse rotation measurements for 3D microscopy. , 2015, , .		1
20	New simple method for measuring nonlinear polarization ellipse rotation with high precision using a dual-phase lock-in. Proceedings of SPIE, 2014, , .	0.8	0
21	Accurate measurement of nonlinear ellipse rotation using a phase-sensitive method. Optics Express, 2014, 22, 25530.	3.4	31
22	Enhancement of laser induced Au nanoparticle formation by femtosecond pulse shaping. Laser Physics, 2013, 23, 076004.	1.2	0
23	Excited states absorption spectra of porphyrins â€“ Solvent effects. Chemical Physics Letters, 2013, 587, 118-123.	2.6	33
24	Influence of self-focusing of ultrashort laser pulses on optical third-harmonic generation at interfaces. Optics Letters, 2013, 38, 5165.	3.3	6
25	Enhancing multi-photon induced excitonic emission of ZnO single crystals by shaping fs laser pulses. Laser Physics Letters, 2013, 10, 105403.	1.4	1
26	Femtosecond laser induced synthesis of Au nanoparticles mediated by chitosan. Optics Express, 2012, 20, 518.	3.4	18
27	Femtosecond third-order nonlinear spectra of lead-germanium oxide glasses containing silver nanoparticles. Optics Express, 2012, 20, 6844.	3.4	43
28	Tunable second harmonic generation by phase-modulated ultrashort laser pulses. Applied Physics B: Lasers and Optics, 2012, 108, 727-731.	2.2	2
29	Excited-state dynamics of meso-tetrakis(sulfonatophenyl) porphyrin J-aggregates. Optical Materials, 2012, 34, 741-747.	3.6	27
30	Femtosecond Laser in Polymeric Materials: Microfabrication of Doped Structures and Micromachining. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 176-186.	2.9	59
31	Femtosecond third-harmonic generation in a glass ceramic containing sodium niobate nanocrystals. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1077.	2.1	4
32	Pulse train fluorescence technique for measuring triplet state dynamics. Optics Express, 2011, 19, 10813.	3.4	23
33	Broadband third-harmonic generation on interfaces using femtosecond pulses. Proceedings of SPIE, 2011, , .	0.8	3
34	COHERENT CONTROL OF GOLD NANOPARTICLES FORMATION. , 2011, , .		0
35	Dye aggregation and influence of pre-micelles on heterogeneous catalysis: A photophysical approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 392, 76-82.	4.7	25
36	Selective excitation through tapered silica fibers of fluorescent two-photon polymerized structures. Applied Physics A: Materials Science and Processing, 2011, 102, 435-439.	2.3	9

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37	Nonlinear spectrum effect on the coherent control of molecular systems. Optics Communications, 2011, 284, 3433-3436.	2.1	5
38	Laser microstructuring for fabricating superhydrophobic polymeric surfaces. Applied Surface Science, 2011, 257, 3281-3284.	6.1	74
39	Third-order nonlinearity of Er3+-doped lead phosphate glass. Applied Physics B: Lasers and Optics, 2010, 99, 559-563.	2.2	11
40	Excited-state absorption spectroscopy in oxidized Cytochrome c. Optical Materials, 2010, 32, 526-529.	3.6	6
41	Degenerate Two-Photon Absorption in All-Trans Retinal: Nonlinear Spectrum and Theoretical Calculations. Journal of Physical Chemistry A, 2010, 114, 3466-3470.	2.5	17
42	Intrachain Energy Migration to Weak Charge-Transfer State in Polyfluorene End-Capped with Naphthalimide Derivative. Journal of Physical Chemistry A, 2010, 114, 12384-12390.	2.5	12
43	Two-photon absorption of perylene derivatives: Interpreting the spectral structure. Chemical Physics Letters, 2009, 479, 52-55.	2.6	10
44	Nonlinear refractive index of RECOB (REâ€‰=â€‰Gd and La) crystals. Applied Physics B: Lasers and Optics, 2009, 94, 221-225.	2.2	7
45	MEHâ€PPV photobleaching control by femtosecond pulse shaping. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 126-130.	1.8	5
46	Control of Two-Photon Absorption in Organic Compounds by Pulse Shaping: Spectral Dependence. Journal of Physical Chemistry A, 2009, 113, 5594-5597.	2.5	13
47	Spectral-domain measurement of photo-induced birefringence in polymer. , 2009, , .		0
48	Two-photon absorption spectrum in diazoaromatic compounds. Chemical Physics Letters, 2008, 463, 360-363.	2.6	14
49	Hyper-Rayleigh scattering with picosecond pulse trains. Applied Optics, 2008, 47, 1443.	2.1	27
50	Spectrally resolved femtosecond Maker fringes technique. Applied Physics Letters, 2008, 92, 091109.	3.3	9
51	Heterodyne Z-scan measurements of slow absorbers. Journal of Applied Physics, 2007, 101, 063112.	2.5	8
52	Two-Photon Absorption Dependence on the Temperature for Azoaromatic Compounds:â€‰ Effect of Molecular Conformation. Journal of Physical Chemistry A, 2007, 111, 6222-6224.	2.5	27
53	Two-photon induced anisotropy in PMMA film doped with Disperse Red 13. Optics Communications, 2007, 273, 435-440.	2.1	42
54	Z-scan theoretical analysis for three-, four- and five-photon absorption. Optics Communications, 2007, 277, 440-445.	2.1	87

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55	Influence of solvents on the photoinduced birefringence in chitosan films incorporating azo dyes. Polymer International, 2007, 56, 1288-1291.	3.1	3
56	Photoinduced birefringence in di-azo compounds in polystyrene and poly(methyl methacrylate) guestâ€“host systems. Optical Materials, 2007, 30, 216-221.	3.6	28
57	Investigation of the Two-Photon Absorption Cross-Section in Perylene Tetracarboxylic Derivatives:â€‰ Nonlinear Spectra and Molecular Structure. Journal of Physical Chemistry A, 2006, 110, 6433-6438.	2.5	50
58	Precise control of superluminal and slow light propagation by transverse phase modulation. Optics Express, 2006, 14, 6201.	3.4	12
59	Nonlinear absorption spectrum of ytterbium bis-phthalocyanine solution measured by white-light continuum Z-scan technique. Chemical Physics Letters, 2006, 419, 417-420.	2.6	46
60	One- and two-photon induced birefringence in Salen dye cast films. Optical Materials, 2006, 28, 1118-1122.	3.6	12
61	Frequency doubling of phase-modulated chirped ultrashort laser pulses using a deformable mirror. Laser Physics, 2006, 16, 1058-1061.	1.2	1
62	Nonresonant third-order nonlinearity of antimony glasses at telecom wavelengths. Journal of Applied Physics, 2006, 100, 116105.	2.5	23
63	Two-photon absorption cross-section spectrum of a Ï€-conjugated polymer obtained using the white-light continuum Z-scan technique. Applied Physics Letters, 2006, 88, 021911.	3.3	39
64	Singlet excited state absorption of porphyrin molecules for pico- and femtosecond optical limiting application. Journal of Applied Physics, 2006, 99, 123103.	2.5	37
65	Coherent control of optically induced birefringence in azoaromatic molecules. Physical Review A, 2006, 74, .	2.5	11
66	Reverse saturable absorption in 5,10,15,20-Tetra(4-pyridyl)-21H,23H-porphyrin with ruthenium outlying complexes. Journal of the Brazilian Chemical Society, 2006, 17, 1377-1782.	0.6	14
67	Ultrafast pulse optimization using two-photon absorption induced thermal lens. Optics Communications, 2005, 251, 423-428.	2.1	10
68	Two- and three-photon excited fluorescence in Y-shaped molecules. Chemical Physics Letters, 2005, 402, 474-478.	2.6	18
69	Degenerate Two-Photon Absorption Spectra in Azoaromatic Compounds. ChemPhysChem, 2005, 6, 1121-1125.	2.1	68
70	Perylene Derivatives with Large Two-Photon-Absorption Cross-Sections for Application in Optical Limiting and Upconversion Lasing. Advanced Materials, 2005, 17, 1890-1893.	21.0	118
71	Femtosecond pulse compression using the Z-scan technique and closed-loop evolutionary algorithm. Journal of Applied Physics, 2005, 98, 083521.	2.5	3
72	Nonlinear wave-mixing processes in the extreme ultraviolet. Physical Review A, 2005, 72, .	2.5	32

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73	Nonlinear Absorption Dynamics in Tetrapyridyl Metalloporphyrins. Journal of Physical Chemistry B, 2005, 109, 17340-17345.	2.6	29
74	In situ UVâ€“vis absorbance measurements for Langmuir films of poly[4â€²-[[2-(methacryloyloxy)-ethyl]ethylamino]-2-chloro-4-nitroazobenzene] (HPDR13) azopolymer. Journal of Colloid and Interface Science, 2004, 276, 138-142.	9.4	9
75	Optical limiting of ultrashort pulses by carbon black suspension. Applied Physics B: Lasers and Optics, 2004, 78, 1-3.	2.2	18
76	Excited-state absorption in oxidized cytochrome c solution. Applied Physics B: Lasers and Optics, 2004, 79, 751-754.	2.2	6
77	Y-Shaped Two-Photon Absorbing Molecules with an Imidazoleâ€”Thiazole Core. ChemInform, 2004, 35, no.	0.0	0
78	Two-photon absorption in diazobenzene compounds. Optical Materials, 2004, 27, 441-444.	3.6	30
79	Two-photon absorption investigation in reduced and oxidized cytochrome c solutions. Chemical Physics Letters, 2004, 390, 506-510.	2.6	34
80	Y-shaped two-photon absorbing molecules with an imidazoleâ€“thiazole core. Chemical Communications, 2004, , 1178-1180.	4.1	37
81	Nonlinear Absorption Spectrum in MEH-PPV/Chloroform Solution:Â A Competition between Two-Photon and Saturated Absorption Processes. Journal of Physical Chemistry B, 2004, 108, 5221-5224.	2.6	51
82	Z-scan measurements using femtosecond continuum generation. Optics Express, 2004, 12, 3921.	3.4	55
83	Two-photon absorption in perylene derivatives. Chemical Physics Letters, 2003, 371, 744-749.	2.6	43
84	The influence of pH in nonresonant third-order nonlinearities of amino acid solutions. Optics Communications, 2003, 216, 233-237.	2.1	7
85	Optical properties of L-threonine crystals. Optical Materials, 2003, 22, 235-240.	3.6	111
86	Frustrated total internal reflection: A simple application and demonstration. American Journal of Physics, 2003, 71, 494-496.	0.7	13
87	INFLUENCE OF PHOTODEGRADATION ON THE OPTICAL LIMITING PROCESS OF CHLOROPHYLL A. Modern Physics Letters B, 2003, 17, 83-87.	1.9	7
88	High-efficiency multipass optical limiter. Optics Letters, 2003, 28, 191.	3.3	8
89	Light-Induced Storage in Layer-by-Layer Films of Chitosan and an Azo Dye. Biomacromolecules, 2003, 4, 1502-1505.	5.4	49
90	Dynamic saturable optical nonlinearities in free base tetrapyridylporphyrin. Journal of Porphyrins and Phthalocyanines, 2003, 07, 452-456.	0.8	28

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91	Phase matching in cascaded third-order processes. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 822.	2.1	33
92	Spontaneous Birefringence in Layer-by-Layer Films of Chitosan and Azo Dye Sunset Yellow. Macromolecular Rapid Communications, 2002, 23, 975-977.	3.9	21
93	Reverse saturable absorption in chlorophyll A solutions. Applied Physics B: Lasers and Optics, 2002, 74, 559-561.	2.2	24
94	Femtosecond Z-scan measurements of nonlinear refraction in amino acid solutions. Optical Materials, 2002, 20, 153-157.	3.6	27
95	Two-photon absorption in azoaromatic compounds. Chemical Physics Letters, 2002, 361, 209-213.	2.6	49
96	Generation of Broadband VUV Light Using Third-Order Cascaded Processes. Physical Review Letters, 2001, 87, 013601.	7.8	96
97	Coherent Control of XUV Radiation. Springer Series in Chemical Physics, 2001, , 42-44.	0.2	0
98	Characterization of dynamic optical nonlinearities in ytterbium bis-phthalocyanine solution. Chemical Physics Letters, 2000, 323, 300-304.	2.6	36
99	Chromophore aggregation hampers photoisomerization in Langmuirâ€“Blodgett films of stearoyl ester of Disperse Red-13 (DR13St). Chemical Physics Letters, 2000, 317, 1-5.	2.6	31
100	Second harmonic pulse distortion by imperfect phase matching. Optics Communications, 2000, 174, 481-486.	2.1	6
101	Characterization of dynamic optical nonlinearities with pulse trains. Applied Physics Letters, 1999, 74, 1531-1533.	3.3	53
102	Storage Studies of Langmuirâ^'Blodgett (LB) Films of Methacrylate Copolymers Derivatized with Disperse Red-13. Macromolecules, 1999, 32, 5277-5284.	4.8	50
103	Optically Induced Birefringence and Surface Relief Gratings in Composite Langmuirâ^'Blodgett (LB) Films of Poly[4â€˜-[[2-(methacryloyloxy)ethyl]ethylamino]-2-chloro-4-nitroazobenzene] (HPDR13) and Cadmium Stearate. Macromolecules, 1999, 32, 1493-1499.	4.8	66
104	Optical Storage in Mixed Langmuirâ^'Blodgett (LB) Films of Disperse Red-19 Isophorone Polyurethane and Cadmium Stearate. Langmuir, 1999, 15, 4560-4564.	3.5	36
105	Z-scan measurements with Fourier analysis in ion-doped solids. Applied Physics Letters, 1997, 71, 2094-2096.	3.3	13
106	LAP single crystal growth free of microorganisms by an accurately controlled solvent evaporation technique. Journal of Crystal Growth, 1997, 173, 487-491.	1.5	18
107	An interference method for the determination of thin film anisotropy. Thin Solid Films, 1996, 279, 119-123.	1.8	8
108	Optical properties of L-alanine Organic Crystals. Optical Materials, 1996, 6, 147-152.	3.6	165

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109	Nonlinear optical response of hydrogenated amorphous silicon films studied by laser induced transient gratings. Applied Physics Letters, 1995, 66, 1089-1091.	3.3	6
110	Hydrogenated amorphous silicon films by 60 Hz glowâ€discharge deposition. Journal of Applied Physics, 1993, 74, 668-671.	2.5	5
111	Nonlinear Optical Properties and Fatigue Effect in Porous Silicon. Materials Research Society Symposia Proceedings, 1993, 298, 217.	0.1	2
112	Control of high-order harmonic generation through shaped pulse optimization. , 0, , .		0