

Lino Misoguti

List of Publications by Year in descending order

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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	Optical properties of L-alanine Organic Crystals. <i>Optical Materials</i> , 1996, 6, 147-152.	3.6	165
2	Perylene Derivatives with Large Two-Photon-Absorption Cross-Sections for Application in Optical Limiting and Upconversion Lasing. <i>Advanced Materials</i> , 2005, 17, 1890-1893.	21.0	118
3	Optical properties of L-threonine crystals. <i>Optical Materials</i> , 2003, 22, 235-240.	3.6	111
4	Generation of Broadband VUV Light Using Third-Order Cascaded Processes. <i>Physical Review Letters</i> , 2001, 87, 013601.	7.8	96
5	Z-scan theoretical analysis for three-, four- and five-photon absorption. <i>Optics Communications</i> , 2007, 277, 440-445.	2.1	87
6	Laser microstructuring for fabricating superhydrophobic polymeric surfaces. <i>Applied Surface Science</i> , 2011, 257, 3281-3284.	6.1	74
7	Degenerate Two-Photon Absorption Spectra in Azoaromatic Compounds. <i>ChemPhysChem</i> , 2005, 6, 1121-1125.	2.1	68
8	Optically Induced Birefringence and Surface Relief Gratings in Composite Langmuir-Blodgett (LB) Films of Poly[4-[[2-(methacryloyloxy)ethyl]ethylamino]-2-chloro-4-nitroazobenzene] (HPDR13) and Cadmium Stearate. <i>Macromolecules</i> , 1999, 32, 1493-1499.	4.8	66
9	Femtosecond Laser in Polymeric Materials: Microfabrication of Doped Structures and Micromachining. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 176-186.	2.9	59
10	Z-scan measurements using femtosecond continuum generation. <i>Optics Express</i> , 2004, 12, 3921.	3.4	55
11	Characterization of dynamic optical nonlinearities with pulse trains. <i>Applied Physics Letters</i> , 1999, 74, 1531-1533.	3.3	53
12	Nonlinear Absorption Spectrum in MEH-PPV/Chloroform Solution: A Competition between Two-Photon and Saturated Absorption Processes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5221-5224.	2.6	51
13	Storage Studies of Langmuir-Blodgett (LB) Films of Methacrylate Copolymers Derivatized with Disperse Red-13. <i>Macromolecules</i> , 1999, 32, 5277-5284.	4.8	50
14	Investigation of the Two-Photon Absorption Cross-Section in Perylene Tetracarboxylic Derivatives: Nonlinear Spectra and Molecular Structure. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6433-6438.	2.5	50
15	Two-photon absorption in azoaromatic compounds. <i>Chemical Physics Letters</i> , 2002, 361, 209-213.	2.6	49
16	Light-Induced Storage in Layer-by-Layer Films of Chitosan and an Azo Dye. <i>Biomacromolecules</i> , 2003, 4, 1502-1505.	5.4	49
17	Nonlinear absorption spectrum of ytterbium bis-phthalocyanine solution measured by white-light continuum Z-scan technique. <i>Chemical Physics Letters</i> , 2006, 419, 417-420.	2.6	46
18	Two-photon absorption in perylene derivatives. <i>Chemical Physics Letters</i> , 2003, 371, 744-749.	2.6	43

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19	Femtosecond third-order nonlinear spectra of lead-germanium oxide glasses containing silver nanoparticles. <i>Optics Express</i> , 2012, 20, 6844.	3.4	43
20	Two-photon induced anisotropy in PMMA film doped with Disperse Red 13. <i>Optics Communications</i> , 2007, 273, 435-440.	2.1	42
21	Two-photon absorption cross-section spectrum of a π -conjugated polymer obtained using the white-light continuum Z-scan technique. <i>Applied Physics Letters</i> , 2006, 88, 021911.	3.3	39
22	Y-shaped two-photon absorbing molecules with an imidazole-thiazole core. <i>Chemical Communications</i> , 2004, , 1178-1180.	4.1	37
23	Singlet excited state absorption of porphyrin molecules for pico- and femtosecond optical limiting application. <i>Journal of Applied Physics</i> , 2006, 99, 123103.	2.5	37
24	Optical Storage in Mixed Langmuir-Blodgett (LB) Films of Disperse Red-19 Isophorone Polyurethane and Cadmium Stearate. <i>Langmuir</i> , 1999, 15, 4560-4564.	3.5	36
25	Characterization of dynamic optical nonlinearities in ytterbium bis-phthalocyanine solution. <i>Chemical Physics Letters</i> , 2000, 323, 300-304.	2.6	36
26	Two-photon absorption investigation in reduced and oxidized cytochrome c solutions. <i>Chemical Physics Letters</i> , 2004, 390, 506-510.	2.6	34
27	Phase matching in cascaded third-order processes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 822.	2.1	33
28	Excited states absorption spectra of porphyrins - Solvent effects. <i>Chemical Physics Letters</i> , 2013, 587, 118-123.	2.6	33
29	Nonlinear wave-mixing processes in the extreme ultraviolet. <i>Physical Review A</i> , 2005, 72, .	2.5	32
30	Chromophore aggregation hampers photoisomerization in Langmuir-Blodgett films of stearyl ester of Disperse Red-13 (DR13St). <i>Chemical Physics Letters</i> , 2000, 317, 1-5.	2.6	31
31	Accurate measurement of nonlinear ellipse rotation using a phase-sensitive method. <i>Optics Express</i> , 2014, 22, 25530.	3.4	31
32	Two-photon absorption in diazobenzene compounds. <i>Optical Materials</i> , 2004, 27, 441-444.	3.6	30
33	Nonlinear Absorption Dynamics in Tetrapyrrolyl Metalloporphyrins. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17340-17345.	2.6	29
34	Dynamic saturable optical nonlinearities in free base tetrapyrrolylporphyrin. <i>Journal of Porphyrins and Phthalocyanines</i> , 2003, 07, 452-456.	0.8	28
35	Photoinduced birefringence in di-azo compounds in polystyrene and poly(methyl methacrylate) guest-host systems. <i>Optical Materials</i> , 2007, 30, 216-221.	3.6	28
36	Femtosecond Z-scan measurements of nonlinear refraction in amino acid solutions. <i>Optical Materials</i> , 2002, 20, 153-157.	3.6	27

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37	Two-Photon Absorption Dependence on the Temperature for Azoaromatic Compounds: Effect of Molecular Conformation. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6222-6224.	2.5	27
38	Hyper-Rayleigh scattering with picosecond pulse trains. <i>Applied Optics</i> , 2008, 47, 1443.	2.1	27
39	Excited-state dynamics of meso-tetrakis(sulfonatophenyl) porphyrin J-aggregates. <i>Optical Materials</i> , 2012, 34, 741-747.	3.6	27
40	Measurement of third-order nonlinearities in selected solvents as a function of the pulse width. <i>Optics Express</i> , 2017, 25, 3553.	3.4	26
41	Dye aggregation and influence of pre-micelles on heterogeneous catalysis: A photophysical approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 392, 76-82.	4.7	25
42	Reverse saturable absorption in chlorophyll A solutions. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 559-561.	2.2	24
43	Influence of lattice modifier on the nonlinear refractive index of tellurite glass. <i>Ceramics International</i> , 2017, 43, 15201-15204.	4.8	24
44	Nonresonant third-order nonlinearity of antimony glasses at telecom wavelengths. <i>Journal of Applied Physics</i> , 2006, 100, 116105.	2.5	23
45	Pulse train fluorescence technique for measuring triplet state dynamics. <i>Optics Express</i> , 2011, 19, 10813.	3.4	23
46	Nonlinear ellipse rotation measurements in optical thick samples. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 653-658.	2.2	23
47	Spontaneous Birefringence in Layer-by-Layer Films of Chitosan and Azo Dye Sunset Yellow. <i>Macromolecular Rapid Communications</i> , 2002, 23, 975-977.	3.9	21
48	LAP single crystal growth free of microorganisms by an accurately controlled solvent evaporation technique. <i>Journal of Crystal Growth</i> , 1997, 173, 487-491.	1.5	18
49	Optical limiting of ultrashort pulses by carbon black suspension. <i>Applied Physics B: Lasers and Optics</i> , 2004, 78, 1-3.	2.2	18
50	Two- and three-photon excited fluorescence in Y-shaped molecules. <i>Chemical Physics Letters</i> , 2005, 402, 474-478.	2.6	18
51	Femtosecond laser induced synthesis of Au nanoparticles mediated by chitosan. <i>Optics Express</i> , 2012, 20, 518.	3.4	18
52	Degenerate Two-Photon Absorption in All-Trans Retinal: Nonlinear Spectrum and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3466-3470.	2.5	17
53	Nonlinear optical waveguides in As ₂ S ₃ -Ag ₂ S chalcogenide glass thin films. <i>Optical Materials Express</i> , 2017, 7, 93.	3.0	17
54	Two-photon absorption spectrum in diazoaromatic compounds. <i>Chemical Physics Letters</i> , 2008, 463, 360-363.	2.6	14

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55	Reverse saturable absorption in 5,10,15,20-Tetra(4-pyridyl)-21H,23H-porphyrin with ruthenium outlying complexes. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 1377-1782.	0.6	14
56	Discrimination between two distinct nonlinear effects by polarization-resolved Z-scan measurements. <i>Optics Express</i> , 2020, 28, 3352.	3.4	14
57	Z-scan measurements with Fourier analysis in ion-doped solids. <i>Applied Physics Letters</i> , 1997, 71, 2094-2096.	3.3	13
58	Frustrated total internal reflection: A simple application and demonstration. <i>American Journal of Physics</i> , 2003, 71, 494-496.	0.7	13
59	Control of Two-Photon Absorption in Organic Compounds by Pulse Shaping: Spectral Dependence. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5594-5597.	2.5	13
60	Investigation of the triplet excited state and application of cationic meso-tetra(cisplatin)porphyrins in antimicrobial photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 35, 102459.	2.6	13
61	Precise control of superluminal and slow light propagation by transverse phase modulation. <i>Optics Express</i> , 2006, 14, 6201.	3.4	12
62	One- and two-photon induced birefringence in Salen dye cast films. <i>Optical Materials</i> , 2006, 28, 1118-1122.	3.6	12
63	Intrachain Energy Migration to Weak Charge-Transfer State in Polyfluorene End-Capped with Naphthalimide Derivative. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12384-12390.	2.5	12
64	Coherent control of optically induced birefringence in azoaromatic molecules. <i>Physical Review A</i> , 2006, 74, .	2.5	11
65	Third-order nonlinearity of Er ³⁺ -doped lead phosphate glass. <i>Applied Physics B: Lasers and Optics</i> , 2010, 99, 559-563.	2.2	11
66	Femtosecond laser fabrication of waveguides in Rhodamine B-doped GPTS/TEOS-derived organic/silica monolithic xerogel. <i>Optical Materials</i> , 2015, 47, 310-314.	3.6	11
67	Excited-state absorption of meso-tetrasulfonatophenyl porphyrin: Effects of pH and micelles. <i>Optical Materials</i> , 2015, 42, 516-521.	3.6	11
68	Ultrafast pulse optimization using two-photon absorption induced thermal lens. <i>Optics Communications</i> , 2005, 251, 423-428.	2.1	10
69	Two-photon absorption of perylene derivatives: Interpreting the spectral structure. <i>Chemical Physics Letters</i> , 2009, 479, 52-55.	2.6	10
70	In situ UV-vis absorbance measurements for Langmuir films of poly[4-[[2-(methacryloyloxy)-ethyl]ethylamino]-2-chloro-4-nitroazobenzene] (HPDR13) azopolymer. <i>Journal of Colloid and Interface Science</i> , 2004, 276, 138-142.	9.4	9
71	Spectrally resolved femtosecond Maker fringes technique. <i>Applied Physics Letters</i> , 2008, 92, 091109.	3.3	9
72	Selective excitation through tapered silica fibers of fluorescent two-photon polymerized structures. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 435-439.	2.3	9

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73	An interference method for the determination of thin film anisotropy. <i>Thin Solid Films</i> , 1996, 279, 119-123.	1.8	8
74	High-efficiency multipass optical limiter. <i>Optics Letters</i> , 2003, 28, 191.	3.3	8
75	Heterodyne Z-scan measurements of slow absorbers. <i>Journal of Applied Physics</i> , 2007, 101, 063112.	2.5	8
76	Absolute Nonlinear Refractive Index Spectra Determination of Organic Molecules in Solutions. <i>Journal of Physical Chemistry A</i> , 2019, 123, 951-957.	2.5	8
77	Effects of meso-tetrakis (4-sulfonatophenyl) porphyrin (TPPS4) aggregation on its spectral and kinetic characteristics and singlet oxygen production. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 261, 120063.	3.9	8
78	The influence of pH in nonresonant third-order nonlinearities of amino acid solutions. <i>Optics Communications</i> , 2003, 216, 233-237.	2.1	7
79	INFLUENCE OF PHOTODEGRADATION ON THE OPTICAL LIMITING PROCESS OF CHLOROPHYLL A. <i>Modern Physics Letters B</i> , 2003, 17, 83-87.	1.9	7
80	Nonlinear refractive index of REOB (RE $\hat{=}$ Gd and La) crystals. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 221-225.	2.2	7
81	Effective π -electron number and symmetry perturbation effect on the two-photon absorption of oligofluorenes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18602-18609.	2.8	7
82	Nonlinear optical response of hydrogenated amorphous silicon films studied by laser induced transient gratings. <i>Applied Physics Letters</i> , 1995, 66, 1089-1091.	3.3	6
83	Second harmonic pulse distortion by imperfect phase matching. <i>Optics Communications</i> , 2000, 174, 481-486.	2.1	6
84	Excited-state absorption in oxidized cytochrome c solution. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 751-754.	2.2	6
85	Excited-state absorption spectroscopy in oxidized Cytochrome c. <i>Optical Materials</i> , 2010, 32, 526-529.	3.6	6
86	Influence of self-focusing of ultrashort laser pulses on optical third-harmonic generation at interfaces. <i>Optics Letters</i> , 2013, 38, 5165.	3.3	6
87	Hydrogenated amorphous silicon films by 60 Hz glow discharge deposition. <i>Journal of Applied Physics</i> , 1993, 74, 668-671.	2.5	5
88	MEH $\hat{=}$ PPV photobleaching control by femtosecond pulse shaping. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 126-130.	1.8	5
89	Nonlinear spectrum effect on the coherent control of molecular systems. <i>Optics Communications</i> , 2011, 284, 3433-3436.	2.1	5
90	Comparative study of electronic and orientational nonlinear refractive indices with nonlinear ellipse rotation measurements. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, E40.	2.1	5

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91	Modeling the First-Order Molecular Hyperpolarizability Dispersion from Experimentally Obtained One- and Two-Photon Absorption. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2152-2159.	2.5	5
92	Femtosecond third-harmonic generation in a glass ceramic containing sodium niobate nanocrystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 1077.	2.1	4
93	Femtosecond pulse compression using the Z-scan technique and closed-loop evolutionary algorithm. <i>Journal of Applied Physics</i> , 2005, 98, 083521.	2.5	3
94	Influence of solvents on the photoinduced birefringence in chitosan films incorporating azo dyes. <i>Polymer International</i> , 2007, 56, 1288-1291.	3.1	3
95	Broadband third-harmonic generation on interfaces using femtosecond pulses. <i>Proceedings of SPIE</i> , 2011, , .	0.8	3
96	Spectral phase transfer from near IR to deep UV by broadband phase-matched four-wave mixing in an argon-filled hollow core waveguide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 195601.	1.5	3
97	Third-harmonic generation at the interfaces of a cuvette filled with selected organic solvents. <i>Applied Optics</i> , 2016, 55, 595.	2.1	3
98	Nonlinear Optical Properties and Fatigue Effect in Porous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1993, 298, 217.	0.1	2
99	Tunable second harmonic generation by phase-modulated ultrashort laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2012, 108, 727-731.	2.2	2
100	Measurement of nonlinear refractive indices of air, oxygen, and nitrogen in capillary by changing the temporal width of short laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2233.	2.1	2
101	Frequency doubling of phase-modulated chirped ultrashort laser pulses using a deformable mirror. <i>Laser Physics</i> , 2006, 16, 1058-1061.	1.2	1
102	Enhancing multi-photon induced excitonic emission of ZnO single crystals by shaping fs laser pulses. <i>Laser Physics Letters</i> , 2013, 10, 105403.	1.4	1
103	High-resolution nonlinear ellipse rotation measurements for 3D microscopy. , 2015, , .		1
104	Control of high-order harmonic generation through shaped pulse optimization. , 0, , .		0
105	Y-Shaped Two-Photon Absorbing Molecules with an Imidazole-Thiazole Core. <i>ChemInform</i> , 2004, 35, no.	0.0	0
106	Spectral-domain measurement of photo-induced birefringence in polymer. , 2009, , .		0
107	COHERENT CONTROL OF GOLD NANOPARTICLES FORMATION. , 2011, , .		0
108	Enhancement of laser induced Au nanoparticle formation by femtosecond pulse shaping. <i>Laser Physics</i> , 2013, 23, 076004.	1.2	0

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109	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
110	Coherent Control of XUV Radiation. Springer Series in Chemical Physics, 2001, , 42-44.	0.2	0
111	GLASSY MATERIALS AND LIGHT: PART 1. Quimica Nova, 2016, , .	0.3	0
112	GLASSY MATERIALS AND LIGHT: PART 2. Quimica Nova, 2016, , .	0.3	0