

Luciano Rosario Maria Vicari

List of Publications by Year in descending order

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118
papers

1,079
citations

516710

16
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552781

26
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119
all docs

119
docs citations

119
times ranked

765
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical phase shift of polymer-dispersed liquid crystals. <i>Physical Review E</i> , 1993, 48, 432-438.	2.1	65
2	Truncation of non diffracting beams. <i>Optics Communications</i> , 1989, 70, 263-266.	2.1	52
3	Self-phase modulation in nematic liquid-crystal films: detailed measurements and theoretical calculations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1988, 5, 2462.	2.1	50
4	Electro-optic phase modulation by polymer dispersed liquid crystals. <i>Journal of Applied Physics</i> , 1997, 81, 6612-6615.	2.5	46
5	Matrix-Assisted Pulsed Laser Evaporation of polythiophene films. <i>Thin Solid Films</i> , 2008, 516, 1594-1598.	1.8	42
6	MAPLE deposition of biomaterial multilayers. <i>Applied Surface Science</i> , 2008, 254, 7143-7148.	6.1	32
7	Biomaterial thin film deposition and characterization by means of MAPLE technique. <i>Materials Science and Engineering C</i> , 2007, 27, 1185-1190.	7.3	30
8	Effect of substrate temperature on MAPLE deposition of synthetic eumelanin films. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 105, 619-627.	2.3	25
9	Optoelectronic polarizer by PDLC. <i>Liquid Crystals</i> , 1996, 20, 377-379.	2.2	24
10	Photoinduced long-term memory effects in n-type organic perylene transistors. <i>Journal of Applied Physics</i> , 2009, 106, 126105.	2.5	23
11	Matrix assisted pulsed laser deposition of melanin thin films. <i>Journal of Applied Physics</i> , 2011, 110, 026105.	2.5	22
12	Soret effect in forced Rayleigh scattering. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1987, 44, 103-106.	1.5	21
13	PDLC: influence of droplet order parameter in light transmittance. <i>Optics Communications</i> , 1996, 123, 449-452.	2.1	20
14	Matrix representation of axisymmetric optical systems including spatial filters. <i>Applied Optics</i> , 1989, 28, 4682.	2.1	19
15	Photoacoustic analysis of liquid crystals' thermal parameters. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1987, 9, 557-568.	0.4	18
16	Comparison of nondiffracting laser beams. <i>Optics Communications</i> , 1990, 75, 353-357.	2.1	17
17	Diffraction Patterns of Self-Phase-Modulated Laser Beams. <i>Europhysics Letters</i> , 1987, 4, 905-908.	2.0	16
18	Voltage Controlled Light Transmittance in Polymer Dispersed Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 266, 229-239.	0.3	16

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19	Experimental results on the photophoretic motion and radiometric trapping of particles by irradiation with laser light. <i>Applied Physics B: Lasers and Optics</i> , 1988, 47, 247-250.	2.2	14
20	Optical Measurement of Local Director Distribution in a Distorted Nematic Liquid Crystal. <i>Europhysics Letters</i> , 1993, 21, 189-194.	2.0	14
21	Temperature dependence of the optical phase shift in a polymer dispersed liquid crystal. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 251, 271-281.	0.3	14
22	Polarized light scattering in a novel polymer dispersed liquid-crystal geometry. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 662.	1.5	14
23	Biosensor Applications of MAPLE Deposited Lipase. <i>Biosensors</i> , 2014, 4, 329-339.	4.7	14
24	Frozen Microemulsions for MAPLE Immobilization of Lipase. <i>Molecules</i> , 2017, 22, 2153.	3.8	14
25	Study of thermally induced optical bistability in a twisted nematic liquid crystal. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1991, 53, 314-318.	1.5	13
26	Angular dependence of light transmittance through a polymer-dispersed liquid crystal above threshold. <i>Optics Letters</i> , 1996, 21, 95.	3.3	13
27	Pump-probe detection of optical nonlinearity in water-in-oil microemulsion. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002, 82, 447-452.	0.6	13
28	Matrix-assisted pulsed laser evaporation of poly(D,L-lactide) for biomedical applications: effect of near infrared radiation. <i>Journal of Biomedical Optics</i> , 2008, 13, 014028.	2.6	13
29	Matrix-Assisted Pulsed Laser Thin Film Deposition by Using Nd:YAG Laser. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-9.	2.7	13
30	Matrix-assisted pulsed laser evaporation of β -glucosidase from a dopa/quinone target. <i>Enzyme and Microbial Technology</i> , 2020, 132, 109414.	3.2	13
31	Laser beam manipulation by composite material electro-optic devices. <i>Optics and Lasers in Engineering</i> , 2003, 39, 389-408.	3.8	12
32	Effects of Nd:YAG (532 nm) laser radiation on "clean" cotton. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 331-333.	2.3	12
33	Matrix Assisted Pulsed Laser Evaporation (MAPLE) of Poly(D,L-lactide) (PDLLA) on Three Dimensional Bioglass® Structures. <i>Advanced Engineering Materials</i> , 2009, 11, 685-689.	3.5	12
34	Lipase biofilm deposited by Matrix Assisted Pulsed Laser Evaporation technique. <i>Applied Surface Science</i> , 2015, 336, 196-199.	6.1	12
35	Smart Coatings Prepared via MAPLE Deposition of Polymer Nanocapsules for Light-Induced Release. <i>Molecules</i> , 2021, 26, 2736.	3.8	12
36	Remarks on the temperature dependence of the optical Fredericksz transition. <i>Optics Communications</i> , 1990, 76, 261-264.	2.1	11

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37	Lipase immobilization for catalytic applications obtained using fumed silica deposited with MAPLE technique. <i>Applied Surface Science</i> , 2016, 374, 346-352.	6.1	11
38	Long-term performance of flat-plate solar collectors. <i>Applied Energy</i> , 1980, 7, 119-128.	10.1	10
39	Diffraction field of a circularly symmetric beam through a sequence of apertures. <i>Applied Optics</i> , 1991, 30, 1595.	2.1	10
40	Bessel beams propagation through axisymmetric optical systems. <i>Journal of Optics</i> , 1991, 22, 3-5.	0.3	10
41	Angular dependence of light transmittance in polymer dispersed liquid crystals. <i>Physical Review E</i> , 1996, 54, 5242-5248.	2.1	10
42	Dry laser cleaning of mechanically thin films. <i>Applied Surface Science</i> , 2004, 238, 121-124.	6.1	10
43	Near infrared reflectography for deciphering obscured (whitewashed or ablated) epigraphs. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5547-5552.	2.8	10
44	Structural characterization of MAPLE deposited lipase biofilm. <i>Applied Surface Science</i> , 2014, 320, 524-530.	6.1	10
45	Substrate temperature dependence of the structure of polythiophene thin films obtained by Matrix Assisted Pulsed Laser Evaporation (MAPLE). <i>EPL Applied Physics</i> , 2009, 48, 10505.	0.7	9
46	Simultaneous heat capacity and thermal-diffusivity photoacoustic measurement at liquid-crystal phase transitions. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1987, 9, 855-862.	0.4	8
47	Spatial filtering in the detection of transverse phase modulation through a nonlinear thin film. <i>Optics Communications</i> , 1988, 68, 391-395.	2.1	8
48	OPTICAL SWITCHING AND CONTROLLED SELF DIFFRACTION WITH POLYMER DISPERSED LIQUID CRYSTALS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 1993, 02, 353-365.	1.8	8
49	Laser cleaning of gilded wood: A comparative study of colour variations induced by irradiation at different wavelengths. <i>Applied Surface Science</i> , 2007, 253, 7715-7718.	6.1	8
50	m-DOPA addition in MAPLE immobilization of lipase for biosensor applications. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 103-108.	4.2	8
51	Functionalization of Carbon Nanomaterial Surface by Doxorubicin and Antibodies to Tumor Markers. <i>Nanoscale Research Letters</i> , 2016, 11, 314.	5.7	8
52	Laser induced thermal profiles in thermally and optically thin films. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1988, 47, 67-69.	1.5	7
53	Determination of the Director Orientation Inside a Hybrid Nematic Cell by Total Internal Reflection. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1990, 179, 45-55.	0.3	7
54	Transient Amplitude Grating in Polymer Dispersed Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 223, 169-179.	0.3	7

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55	â€œVersoâ€ laser cleaning of mechanically thin films. Applied Surface Science, 2003, 208-209, 468-473.	6.1	7
56	Self-transparency effect in a twisted nematic liquid crystal cell. Optics Communications, 1991, 80, 388-392.	2.1	6
57	Voltage Controlled Thermo-Optical Effect in Polymer Dispersed Liquid Crystals. Molecular Crystals and Liquid Crystals, 1998, 320, 379-388.	0.3	6
58	Laser beam self-phase modulation by a film of water-in-oil microemulsion. Europhysics Letters, 2000, 49, 564-568.	2.0	6
59	One-dimensional modelling of â€versoâ€™ laser cleaning. Journal of Modern Optics, 2006, 53, 1121-1129.	1.3	6
60	An old notice board at ancient Herculaneum studied using Near Infrared Reflectography. Journal of Archaeological Science, 2008, 35, 1708-1716.	2.4	6
61	Energy saving in building design. Applied Energy, 1980, 6, 429-446.	10.1	5
62	Nonlinear liquid-crystal interfaces: Determination of the local director orientation. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1990, 12, 1273-1280.	0.4	5
63	Liquid-crystal layer between rough polymeric surfaces. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1135.	2.1	5
64	Self phase modulation of a Gaussian laser beam through a non linear thin film. Revue De Physique AppliquÃ©e, 1989, 24, 411-415.	0.4	5
65	Heat storage and solar system performance. Applied Energy, 1980, 7, 19-29.	10.1	4
66	Dynamic thermal behaviour of a wall. Applied Energy, 1983, 15, 153-165.	10.1	4
67	A dynamic model for the thermal energy management of buildings. Applied Energy, 1983, 15, 285-297.	10.1	4
68	Ideal nonfocusing concentrator with fin absorbers in dielectric rhombuses. Optics Letters, 1987, 12, 453.	3.3	4
69	Nonlinear Thermo-optical Effects Induced by Light Modulation of an Isotropic Hole in a Twisted Nematic Liquid Crystal Cell. Molecular Crystals and Liquid Crystals, 1991, 207, 251-263.	0.7	4
70	Vector formalism for circularly symmetric laser beams. Applied Optics, 1992, 31, 2714.	2.1	4
71	C.W. Optical Frederiks Transition: Thermal Effect and Surface Director Reorientation; T.I.R. Investigations. Molecular Crystals and Liquid Crystals, 1994, 251, 43-59.	0.3	4
72	Pump-probe detection of optical nonlinearity in water-in-oil microemulsion. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 447-452.	0.6	4

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73	Nonlinear optical characterization of cluster dynamic in water in oil microemulsion by a pump probe laser beam technique. <i>European Physical Journal E</i> , 2002, 9, 335-340.	1.6	4
74	Infrared image analysis and elaboration for archaeology: The case study of a medieval "capsella" from Cimitile, Italy. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 471-479.	2.2	4
75	Ideal concentrators with polygonal absorbers. <i>Revue De Physique Appliquée</i> , 1986, 21, 163-167.	0.4	4
76	Laser heating of optically thin samples. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1988, 10, 1199-1208.	0.4	3
77	Propagation of fields with axially symmetric cross-spectral densities. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1991, 8, 1106.	1.5	3
78	Nonlinear Diffraction Driven by Low Frequency Electric Field in Polymer Dispersed Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 212, 279-287.	0.3	3
79	Reorientation gratings in polymer dispersed liquid crystals. <i>Physical Review E</i> , 1998, 58, 3280-3283.	2.1	3
80	Dependence on substrate temperature of the conformation and structure of a poly[3-(4-octyloxyphenyl)thiophene] (POOPT) thin film obtained by matrix assisted pulsed laser evaporation (MAPLE). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2166-2170.	1.8	3
81	Photovoltaic fields: Influence of the array structure on power loss due to cell failures. <i>Applied Energy</i> , 1985, 20, 47-67.	10.1	2
82	Monitoring the effects of draught elimination. <i>Applied Energy</i> , 1985, 20, 69-83.	10.1	2
83	New optical methods to study director orientation in liquid crystals. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1988, 10, 1325-1333.	0.4	2
84	Free-space laser beams with pulsing on-axis intensities. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 757-763.	0.4	2
85	Anchoring Induced by Porous Substrate on a Liquid Crystal Layer. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 239, 257-261.	0.3	2
86	Voltage Controlled Self-Transparency in a Twisted Nematic Liquid Crystal Cell Bounded by Parallel Polarizers. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 282, 43-51.	0.3	2
87	Optical nonlinearity of water in oil microemulsion near percolation. <i>Journal of Applied Physics</i> , 2000, 88, 7-10.	2.5	2
88	Optical nonlinearity in a film of water in oil microemulsion. <i>Optical Materials</i> , 2001, 18, 155-157.	3.6	2
89	Dynamics of Optical Nonlinearity in Water-in-Oil Microemulsion. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 662-665.	1.5	2
90	Polymer Dispersed LCDs. , 2012, , 1565-1585.		2

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91	Solar system optimisation. Applied Energy, 1980, 7, 5-17.	10.1	1
92	Field validation of the AMBRA program simulation. Applied Energy, 1984, 16, 27-39.	10.1	1
93	Dielectric receivers for asymmetrical ideal concentrators. Applied Optics, 1988, 27, 2038.	2.1	1
94	Spatial filtering in the detection of thermal transverse phase modulation of laser beams. Applied Physics B, Photophysics and Laser Chemistry, 1990, 50, 61-65.	1.5	1
95	Title is missing!. Journal of Optics, 1990, 21, 63-66.	0.3	1
96	Voltage Controlled Optical Bistability in a Twisted Nematic Liquid Crystal Cell Between Crossed Polarizers. Molecular Crystals and Liquid Crystals, 1996, 290, 11-19.	0.3	1
97	Frequency Dependence of Light Transmittance in a PDLC. Molecular Crystals and Liquid Crystals, 1996, 290, 21-29.	0.3	1
98	Electro-optic control of non-linear optical effects in twisted nematic liquid crystal cells. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1998, 20, 1411-1420.	0.4	1
99	Twist molecular orientation transition in a nematic liquid crystal cell. Liquid Crystals, 1999, 26, 1837-1840.	2.2	1
100	<title>Self-focusing in microemulsions</title>. , 1999, , .		1
101	Investigation of surface laser treatment of ancient calcite: the case of the grave in Torricelle (Naples,) Tj ETQq1 1 0.784314 rgBT /Overlo	2.3	1
102	Asymmetrical ideal concentrators with polygonal absorbers. Revue De Physique AppliquÃ©e, 1985, 20, 857-862.	0.4	1
103	Liquid Crystal Polymer Composite Materials for LCDs. , 2016, , 2223-2250.		1
104	Experimental confirmation of a laser-induced temperature field model by means of microholographic interferometry. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1987, 9, 185-194.	0.4	0
105	Multiple beam scattering effects in biological tissues exposed to laser radiation. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1988, 10, 173-182.	0.4	0
106	"Heat Transfer Studies By Microholographic Interferometry". Proceedings of SPIE, 1988, 0673, 167.	0.8	0
107	Diffraction patterns of laser beams with thermal self-phase modulation by optically thin films. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1989, 11, 1577-1586.	0.4	0
108	Effect of Temperature on the Nonlinear Optical Behavior of a Homeotropic Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 1992, 221, 49-56.	0.3	0

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109	Nonlinear total internal reflection through the thermoplastic effect. Applied Optics, 1992, 31, 2752.	2.1	0
110	Beam propagation through optical systems. Optics Communications, 1992, 92, 183-186.	2.1	0
111	Optics of Polymer Dispersed Liquid Crystals. Optics and Photonics News, 1997, 8, 29.	0.5	0
112	Optically Induced Reorientation in a Hybrid Aligned Nematic Liquid Crystal Cell. Molecular Crystals and Liquid Crystals, 1998, 320, 365-377.	0.3	0
113	Optically induced variations of the electrical conductivity of a water in oil microemulsion near the percolation threshold. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2005-2011.	0.6	0
114	Noncritical microemulsion as nonlinear optical material. , 2002, , .		0
115	WAD inverse microemulsion as optical nonlinear material.. , 2003, , .		0
116	The building as a thermodynamic system. Physical model and experimental test. Revue De Physique Appliquée, 1983, 18, 789-794.	0.4	0
117	Electrooptic beam deflection with latex. Revue De Physique Appliquée, 1988, 23, 97-99.	0.4	0
118	Cross spectral density propagation through optical systems. Journal De Physique III, 1991, 1, 1569-1574.	0.3	0