

Leonardo Silvestri

List of Publications by Year in descending order

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65
papers

1,176
citations

394421

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395702

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66
all docs

66
docs citations

66
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast All Optical Switching via Tunable Fano Interference. <i>Physical Review Letters</i> , 2005, 95, 057401.	7.8	230
2	Optical response and emission waveguiding in rubrene crystals. <i>Physical Review B</i> , 2007, 75, .	3.2	81
3	Dielectric tensor of tetracene single crystals: The effect of anisotropy on polarized absorption and emission spectra. <i>Journal of Chemical Physics</i> , 2008, 128, 154709.	3.0	55
4	Hybrid functional study of Si and O donors in wurtzite AlN. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	51
5	Reclassifying exciton-phonon coupling in molecular aggregates: Evidence of strong nonadiabatic coupling in oligothiophene crystals. <i>Journal of Chemical Physics</i> , 2007, 127, 184703.	3.0	46
6	Sensors at Your Fibre Tips: A Novel Liquid Crystal- Based Photonic Transducer for Sensing Systems. <i>Journal of Lightwave Technology</i> , 2013, 31, 2940-2946.	4.6	46
7	Polarized superradiance from delocalized exciton transitions in tetracene single crystals. <i>Physical Review B</i> , 2010, 81, .	3.2	40
8	Dynamic control of coherent pulses via Fano-type interference in asymmetric double quantum wells. <i>Physical Review A</i> , 2006, 73, .	2.5	38
9	Multiple mode exciton-vibrational coupling in H-aggregates: Synergistic enhancement of the quantum yield. <i>Journal of Chemical Physics</i> , 2010, 132, 094704.	3.0	36
10	Reflective mode of deformed-helix ferroelectric liquid crystal cells for sensing applications. <i>Liquid Crystals</i> , 2013, 40, 1427-1435.	2.2	30
11	A novel optical telemetry system applied to flowmeter networks. <i>Flow Measurement and Instrumentation</i> , 2016, 48, 15-19.	2.0	28
12	Oxidation Dynamics of Epitaxial Rubrene Ultrathin Films. <i>Chemistry of Materials</i> , 2011, 23, 3246-3253.	6.7	26
13	Fast electro-optical mode in photo-aligned reflective deformed helix ferroelectric liquid crystal cells. <i>Optics Letters</i> , 2012, 37, 2343.	3.3	25
14	A biopotential optrode array: operation principles and simulations. <i>Scientific Reports</i> , 2018, 8, 2690.	3.3	25
15	Chain entanglements and fracture energy in interfaces between immiscible polymers. <i>Journal of Chemical Physics</i> , 2003, 119, 8140-8149.	3.0	24
16	Random lasing in an organic light-emitting crystal and its interplay with vertical cavity feedback. <i>Laser and Photonics Reviews</i> , 2014, 8, 785-791.	8.7	23
17	Generalized ellipsometry and dielectric tensor of rubrene single crystals. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	22
18	Compact integrated actively Q-switched waveguide laser. <i>Optics Express</i> , 2017, 25, 1692.	3.4	22

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19	Spectroscopic and Structural Characterization of Two Polymorphs of 1,1,4,4-Tetraphenyl-1,3-butadiene. <i>Crystal Growth and Design</i> , 2010, 10, 2752-2758.	3.0	21
20	Polarized Absorption, Spontaneous and Stimulated Blue Light Emission of H-type Tetraphenylbutadiene Monocrystals. <i>ChemPhysChem</i> , 2010, 11, 429-434.	2.1	20
21	Exciton-phonon coupling in molecular crystals: Synergy between two intramolecular vibrational modes in quaterthiophene single crystals. <i>Journal of Chemical Physics</i> , 2009, 130, 234701.	3.0	19
22	Direct photogeneration of biexcitons via virtual single-exciton and biexciton states in PbSe quantum dots. <i>Physical Review B</i> , 2010, 81, .	3.2	18
23	First principle study of valence-band offsets at AlN/diamond heterojunctions. <i>Diamond and Related Materials</i> , 2013, 31, 25-29.	3.9	15
24	Voltage Sensor with wide Frequency Range using Deformed Helix Ferroelectric Liquid Crystal. <i>Photonics Letters of Poland</i> , 2013, 5, .	0.4	15
25	Crystal Structure and Optical Properties of N-Pyrrole End-Capped Thiophene/Phenyl Co-Oligomer: Strong H-type Excitonic Coupling and Emission Self-Waveguiding. <i>Crystal Growth and Design</i> , 2010, 10, 2342-2349.	3.0	14
26	Concentration of point defects in wurtzite AlN: A hybrid functional study. <i>Europhysics Letters</i> , 2012, 98, 36003.	2.0	14
27	Propagation properties and self-waveguided fluorescence emission in conjugated molecular solids. <i>Organic Electronics</i> , 2006, 7, 561-567.	2.6	12
28	Liquid Crystal-Based Hydrophone Arrays. <i>Photonic Sensors</i> , 2012, 2, 237-246.	5.0	12
29	Nucleation and Chemical Vapor Deposition Growth of Polycrystalline Diamond on Aluminum Nitride: Role of Surface Termination and Polarity. <i>Crystal Growth and Design</i> , 2013, 13, 3490-3497.	3.0	12
30	Accurate optical measurement of high voltage waveform using novel optical liquid crystal based sensor. <i>Sensors and Actuators A: Physical</i> , 2017, 268, 164-172.	4.1	12
31	Role of AlN Polarity in the Band Alignment of AlN(0001)/Diamond(100) Heterojunctions: A First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1534-1538.	4.6	11
32	Monolithic vertical microcavities based on tetracene single crystals. <i>Applied Physics Letters</i> , 2008, 92, 063301.	3.3	10
33	Anisotropic optical functions of \pm -1,4,4-tetraphenyl-1,3-butadiene. <i>Journal of Chemical Physics</i> , 2011, 134, 034707.	3.0	10
34	Exciton-Lattice Phonon Coupling in Organic Semiconductor Crystals beyond the Static Disorder. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26248-26254.	3.1	9
35	Liquid Crystal based optical telemetry applied to 4-20 mA current loop networks. <i>Sensors and Actuators A: Physical</i> , 2017, 260, 124-130.	4.1	9
36	Photodiode working in zero-mode: detecting light power change with DC rejection and AC amplification. <i>Optics Express</i> , 2021, 29, 18915.	3.4	9

#	ARTICLE	IF	CITATIONS
37	A Novel Optical Sensing Technology for Monitoring Voltage and Current of Overhead Power Lines. IEEE Sensors Journal, 2021, 21, 26699-26707.	4.7	9
38	Optical Properties of Dibenzodithieno[3,2-b;4,5-b']dithiophene Monocrystals: The Effect of Intermolecular Interactions. Journal of Physical Chemistry A, 2011, 115, 225-231.	2.5	7
39	Effective dielectric tensor of deformed-helix ferroelectric liquid crystals with subwavelength pitch and large tilt angle. Physical Review E, 2018, 98, .	2.1	7
40	Optically powered gas monitoring system using single-mode fibre for underground coal mines. International Journal of Coal Science and Technology, 2022, 9, 1.	6.0	7
41	Numerical modelling and optimization of actively Q-switched waveguide lasers based on liquid crystal transducers. Optics Express, 2019, 27, 8777.	3.4	6
42	Optical properties of excitons in quantum dots: diffraction of an electromagnetic plane wave by a spherical quantum dot. Journal of Physics and Chemistry of Solids, 2000, 61, 2043-2053.	4.0	5
43	Hybrid resonant organic-inorganic nanostructures for novel light emitting devices and solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1684-1687.	0.8	5
44	Role of Molecular Packing on the Absorption Properties of the Two Polymorphs of [Re ₂ (μ_4 -Cl) ₂ (CO) ₆ (4,5-(Me ₃ Si) ₂ pyridazine)]. Crystal Growth and Design, 2012, 12, 742-749.	3.0	5
45	Electromagnetically Induced Transparency in Quantum Wells. Physica Status Solidi A, 2002, 190, 683-688.	1.7	4
46	Modeling the fabrication process of micropatterned macromolecular scaffolds for peripheral nerve regeneration. Journal of Applied Polymer Science, 2010, 116, 1879-1888.	2.6	4
47	Optical properties of Quantum Disks: Real density matrix approach. Open Physics, 2006, 4, .	1.7	3
48	Electromagnetically induced transparency in asymmetric double quantum wells in the transient regime. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2412-2415.	0.8	3
49	Reflection from gold-coated deformed-helix ferroelectric liquid crystal cells: theory and experiment. , 2012, , .		3
50	Voltage sensor based on Deformed Helix Ferroelectric Liquid Crystal. Proceedings of SPIE, 2012, , .	0.8	3
51	Modeling the Debye dielectric response in the time domain for a liquid crystal-based biopotential optrode. , 2016, 2016, 4857-4860.		3
52	Distributed hydrophone array based on liquid crystal cell. Proceedings of SPIE, 2012, , .	0.8	2
53	All-in-one fiber laser based on liquid crystal transducer. , 2018, , .		2
54	Inorganic/Organic Semiconductor Heterostructures: Optical Properties of Quaterthiophene Intercalated in Cadmium Phosphorus Trisulfide. Journal of Physical Chemistry C, 2008, 112, 20149-20153.	3.1	1

#	ARTICLE	IF	CITATIONS
55	The role of molecular packing on the UV-visible optical properties of [Re 2 Cl 2 (CO) 6 4,5-(Me 3 Si) 2 pyridazine]. Proceedings of SPIE, 2012, , .	0.8	1
56	Molecular Packing versus Strength and Effective Mass of the Emitting Exciton of Î²-1,1,4,4-Tetraphenyl-1,3-butadiene. Journal of Physical Chemistry C, 2014, 118, 8588-8594.	3.1	1
57	Computational modeling of a novel liquid crystal-based optrode. , 2016, , .		1
58	All-in-One Fiber Laser Based on a Liquid Crystal Transducer. IEEE Photonics Technology Letters, 2019, 31, 1409-1412.	2.5	1
59	Compact actively Q-switched laser for sensing applications. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108631.	5.0	1
60	Multi-optrode arrays: a new path towards brain/machine interface. , 2018, , .		1
61	Dielectric functions and self-waveguided propagation of light in oligothiophene crystals. , 2006, , .		0
62	Interface properties and refraction of light in twin-layered organic semiconductors. Journal of Physics: Conference Series, 2007, 61, 1175-1179.	0.4	0
63	Novel liquid crystal cells for short-pulsed monolithic guided-wave laser sources. , 2017, , .		0
64	Actively Q-Switched integrated waveguide lasers. , 2016, , .		0
65	High Efficiency and Low Voltage Actively Q-Switched Yb-doped Waveguide Lasers Using a Liquid Crystal Modulator. , 2020, , .		0