

# Leonardo Silvestri

## List of Publications by Year in descending order

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65  
papers

1,176  
citations

394421

19  
h-index

395702

33  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1238  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Compact actively Q-switched laser for sensing applications. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108631.	5.0	1
3	Photodiode working in zero-mode: detecting light power change with DC rejection and AC amplification. Optics Express, 2021, 29, 18915.	3.4	9
4	A Novel Optical Sensing Technology for Monitoring Voltage and Current of Overhead Power Lines. IEEE Sensors Journal, 2021, 21, 26699-26707.	4.7	9
5	High Efficiency and Low Voltage Actively Q-Switched Yb-doped Waveguide Lasers Using a Liquid Crystal Modulator. , 2020, , .		0
6	All-in-One Fiber Laser Based on a Liquid Crystal Transducer. IEEE Photonics Technology Letters, 2019, 31, 1409-1412.	2.5	1
7	Numerical modelling and optimization of actively Q-switched waveguide lasers based on liquid crystal transducers. Optics Express, 2019, 27, 8777.	3.4	6
8	A biopotential optrode array: operation principles and simulations. Scientific Reports, 2018, 8, 2690.	3.3	25
9	Effective dielectric tensor of deformed-helix ferroelectric liquid crystals with subwavelength pitch and large tilt angle. Physical Review E, 2018, 98, .	2.1	7
10	Multi-optrode arrays: a new path towards brain/machine interface. , 2018, , .		1
11	All-in-one fiber laser based on liquid crystal transducer. , 2018, , .		2
12	Liquid Crystal based optical telemetry applied to 4â€“20 mA current loop networks. Sensors and Actuators A: Physical, 2017, 260, 124-130.	4.1	9
13	Accurate optical measurement of high voltage waveform using novel optical liquid crystal based sensor. Sensors and Actuators A: Physical, 2017, 268, 164-172.	4.1	12
14	Novel liquid crystal cells for short-pulsed monolithic guided-wave laser sources. , 2017, , .		0
15	Compact integrated actively Q-switched waveguide laser. Optics Express, 2017, 25, 1692.	3.4	22
16	Role of AlN Polarity in the Band Alignment of AlN(0001)/Diamond(100) Heterojunctions: A First-Principles Study. Journal of Physical Chemistry Letters, 2016, 7, 1534-1538.	4.6	11
17	Modeling the Debye dielectric response in the time domain for a liquid crystal-based biopotential optrode. , 2016, 2016, 4857-4860.		3
18	Computational modeling of a novel liquid crystal-based optrode. , 2016, , .		1

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19	A novel optical telemetry system applied to flowmeter networks. Flow Measurement and Instrumentation, 2016, 48, 15-19.	2.0	28
20	Actively Q-Switched integrated waveguide lasers. , 2016, , .		0
21	Random lasing in an organic light-emitting crystal and its interplay with vertical cavity feedback. Laser and Photonics Reviews, 2014, 8, 785-791.	8.7	23
22	Molecular Packing versus Strength and Effective Mass of the Emitting Exciton of $\beta$ -1,1,4,4-Tetraphenyl-1,3-butadiene. Journal of Physical Chemistry C, 2014, 118, 8588-8594.	3.1	1
23	Sensors at Your Fibre Tips: A Novel Liquid Crystal- Based Photonic Transducer for Sensing Systems. Journal of Lightwave Technology, 2013, 31, 2940-2946.	4.6	46
24	Exciton-Phonon Coupling in Organic Semiconductor Crystals beyond the Static Disorder. Journal of Physical Chemistry C, 2013, 117, 26248-26254.	3.1	9
25	Nucleation and Chemical Vapor Deposition Growth of Polycrystalline Diamond on Aluminum Nitride: Role of Surface Termination and Polarity. Crystal Growth and Design, 2013, 13, 3490-3497.	3.0	12
26	Reflective mode of deformed-helix ferroelectric liquid crystal cells for sensing applications. Liquid Crystals, 2013, 40, 1427-1435.	2.2	30
27	First principle study of valence-band offsets at AlN/diamond heterojunctions. Diamond and Related Materials, 2013, 31, 25-29.	3.9	15
28	Voltage Sensor with wide Frequency Range using Deformed Helix Ferroelectric Liquid Crystal. Photonics Letters of Poland, 2013, 5, .	0.4	15
29	Fast electro-optical mode in photo-aligned reflective deformed helix ferroelectric liquid crystal cells. Optics Letters, 2012, 37, 2343.	3.3	25
30	Reflection from gold-coated deformed-helix ferroelectric liquid crystal cells: theory and experiment. , 2012, , .		3
31	The role of molecular packing on the UV-visible optical properties of $[\text{Re}_2\text{Cl}_2(\text{CO})_6]_n \cdot 4,5\text{-}(\text{Me}_3\text{Si})_2\text{pyridazine}$ . Proceedings of SPIE, 2012, , .	0.8	1
32	Distributed hydrophobic array based on liquid crystal cell. Proceedings of SPIE, 2012, , .	0.8	2
33	Voltage sensor based on Deformed Helix Ferroelectric Liquid Crystal. Proceedings of SPIE, 2012, , .	0.8	3
34	Concentration of point defects in wurtzite AlN: A hybrid functional study. Europhysics Letters, 2012, 98, 36003.	2.0	14
35	Role of Molecular Packing on the Absorption Properties of the Two Polymorphs of $[\text{Re}_2(\mu_4\text{-Cl})_2(\text{CO})_6]_n \cdot 4,5\text{-}(\text{Me}_3\text{Si})_2\text{pyridazine}$ ]. Crystal Growth and Design, 2012, 12, 742-749.	3.0	5
36	Liquid Crystal-Based Hydrophobic Arrays. Photonic Sensors, 2012, 2, 237-246.	5.0	12

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37	Optical Properties of Dibenzo[d,h]thieno[3,2-b;4,5-b']dithiophene Monocrystals: The Effect of Intermolecular Interactions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 225-231.	2.5	7
38	Oxidation Dynamics of Epitaxial Rubrene Ultrathin Films. <i>Chemistry of Materials</i> , 2011, 23, 3246-3253.	6.7	26
39	Anisotropic optical functions of 1,1,4,4-tetraphenyl-1,3-butadiene. <i>Journal of Chemical Physics</i> , 2011, 134, 034707.	3.0	10
40	Hybrid functional study of Si and O donors in wurtzite AlN. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	51
41	Polarized Absorption, Spontaneous and Stimulated Blue Light Emission of $\beta$ -Tetraphenylbutadiene Monocrystals. <i>ChemPhysChem</i> , 2010, 11, 429-434.	2.1	20
42	Modeling the fabrication process of micropatterned macromolecular scaffolds for peripheral nerve regeneration. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1879-1888.	2.6	4
43	Hybrid resonant organic-inorganic nanostructures for novel light emitting devices and solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1684-1687.	0.8	5
44	Polarized superradiance from delocalized exciton transitions in tetracene single crystals. <i>Physical Review B</i> , 2010, 81, .	3.2	40
45	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
46	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
47	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
48	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
49	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
50	Electromagnetically induced transparency in asymmetric double quantum wells in the transient regime. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2412-2415.	0.8	3
51	Inorganic/Organic Semiconductor Heterostructures: Optical Properties of Quaterthiophene Intercalated in Cadmium Phosphorus Trisulfide. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20149-20153.	3.1	1
52	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
53	Monolithic vertical microcavities based on tetracene single crystals. <i>Applied Physics Letters</i> , 2008, 92, 063301.	3.3	10
54	Optical response and emission waveguiding in rubrene crystals. <i>Physical Review B</i> , 2007, 75, .	3.2	81

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55	Generalized ellipsometry and dielectric tensor of rubrene single crystals. Journal of Applied Physics, 2007, 102, .	2.5	22
56	Interface properties and refraction of light in twin-layered organic semiconductors. Journal of Physics: Conference Series, 2007, 61, 1175-1179.	0.4	0
57	Reclassifying exciton-phonon coupling in molecular aggregates: Evidence of strong nonadiabatic coupling in oligothiophene crystals. Journal of Chemical Physics, 2007, 127, 184703.	3.0	46
58	Dielectric functions and self-waveguided propagation of light in oligothiophene crystals. , 2006, , .		0
59	Propagation properties and self-waveguided fluorescence emission in conjugated molecular solids. Organic Electronics, 2006, 7, 561-567.	2.6	12
60	Dynamic control of coherent pulses via Fano-type interference in asymmetric double quantum wells. Physical Review A, 2006, 73, .	2.5	38
61	Optical properties of Quantum Disks: Real density matrix approach. Open Physics, 2006, 4, .	1.7	3
62	Ultrafast All Optical Switching via Tunable Fano Interference. Physical Review Letters, 2005, 95, 057401.	7.8	230
63	Chain entanglements and fracture energy in interfaces between immiscible polymers. Journal of Chemical Physics, 2003, 119, 8140-8149.	3.0	24
64	Electromagnetically Induced Transparency in Quantum Wells. Physica Status Solidi A, 2002, 190, 683-688.	1.7	4
65	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