

Luana Persano

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112
papers

4,090
citations

28
h-index

62
g-index

116
ext. papers

4,547
ext. citations

7.8
avg, IF

5.39
L-index

#	Paper	IF	Citations
112	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidene fluoride-co-trifluoroethylene). <i>Nature Communications</i> , 2013 , 4, 1633	17.4	821
111	Industrial Upscaling of Electrospinning and Applications of Polymer Nanofibers: A Review. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 504-520	3.9	619
110	Making silicon hydrophobic: wettability control by two-lengthscale simultaneous patterning with femtosecond laser irradiation.. <i>Nanotechnology</i> , 2006 , 17,	3.4	216
109	Patterning of light-emitting conjugated polymer nanofibres. <i>Nature Nanotechnology</i> , 2008 , 3, 614-9	28.7	161
108	Active polymer nanofibers for photonics, electronics, energy generation and micromechanics. <i>Progress in Polymer Science</i> , 2015 , 43, 48-95	29.6	135
107	Light-Emitting Electrospun Nanofibers for Nanophotonics and Optoelectronics. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 487-503	3.9	94
106	Metal-Enhanced Near-Infrared Fluorescence by Micropatterned Gold Nanocages. <i>ACS Nano</i> , 2015 , 9, 10047-54	16.7	88
105	Room-Temperature Nanoimprint Lithography of Non-thermoplastic Organic Films. <i>Advanced Materials</i> , 2004 , 16, 525-529	24	79
104	Electronic structure of indium-tin-oxide films fabricated by reactive electron-beam deposition. <i>Physical Review B</i> , 2005 , 72,	3.3	76
103	Multilevel, room-temperature nanoimprint lithography for conjugated polymer-based photonics. <i>Nano Letters</i> , 2005 , 5, 1915-9	11.5	75
102	Additive Manufacturing: Applications and Directions in Photonics and Optoelectronics. <i>Advanced Optical Materials</i> , 2019 , 7, 1800419	8.1	75
101	Enhanced Piezoelectricity of Electrospun Polyvinylidene Fluoride Fibers for Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13575-13583	9.5	72
100	Cooperativity in the enhanced piezoelectric response of polymer nanowires. <i>Advanced Materials</i> , 2014 , 26, 7574-80	24	68
99	Oligomer-based organic distributed feedback lasers by room-temperature nanoimprint lithography. <i>Applied Physics Letters</i> , 2003 , 83, 2545-2547	3.4	62
98	Polymer nanogenerators: Opportunities and challenges for large-scale applications. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45674	2.9	53
97	Single light-emitting polymer nanofiber field-effect transistors. <i>Nanoscale</i> , 2010 , 2, 2217-22	7.7	47
96	Near-infrared imprinted distributed feedback lasers. <i>Applied Physics Letters</i> , 2006 , 89, 201105	3.4	46

95	Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600569	3.9	43
94	Light-emitting nanocomposite CdS-polymer electrospun fibres via in situ nanoparticle generation. <i>Nanoscale</i> , 2011 , 3, 4234-9	7.7	42
93	Electrically tunable organic distributed feedback lasers embedding nonlinear optical molecules. <i>Advanced Materials</i> , 2012 , 24, OP221-5	24	41
92	Distributed feedback imprinted electrospun fiber lasers. <i>Advanced Materials</i> , 2014 , 26, 6542-7	24	39
91	Polymeric distributed feedback lasers by room-temperature nanoimprint lithography. <i>Applied Physics Letters</i> , 2006 , 89, 131109	3.4	38
90	Soft molding lithography of conjugated polymers. <i>Applied Physics Letters</i> , 2004 , 84, 1365-1367	3.4	37
89	Physically transient photonics: random versus distributed feedback lasing based on nanoimprinted DNA. <i>ACS Nano</i> , 2014 , 8, 10893-8	16.7	36
88	CdS-polymer nanocomposites and light-emitting fibers by in situ electron-beam synthesis and lithography. <i>Advanced Materials</i> , 2012 , 24, 5320-6	24	35
87	Monolithic polymer microcavity lasers with on-top evaporated dielectric mirrors. <i>Applied Physics Letters</i> , 2006 , 88, 121110	3.4	34
86	Microvascular endothelial cell spreading and proliferation on nanofibrous scaffolds by polymer blends with enhanced wettability. <i>Soft Matter</i> , 2013 , 9, 5529	3.6	32
85	Polymer nanofibers by soft lithography. <i>Applied Physics Letters</i> , 2005 , 87, 123109	3.4	31
84	Role of doping concentration on the competition between amplified spontaneous emission and nonradiative energy transfer in blends of conjugated polymers. <i>Physical Review B</i> , 2006 , 73,	3.3	28
83	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , 2017 , 27, 1606008	15.6	27
82	Enhancement of light polarization from electrospun polymer fibers by room temperature nanoimprint lithography. <i>Nanotechnology</i> , 2010 , 21, 215304	3.4	27
81	Very high-quality distributed Bragg reflectors for organic lasing applications by reactive electron-beam deposition. <i>Optics Express</i> , 2006 , 14, 1951-6	3.3	27
80	Controlled Atmosphere Electrospinning of Organic Nanofibers with Improved Light Emission and Waveguiding Properties. <i>Macromolecules</i> , 2015 , 48, 7803-7809	5.5	26
79	Multi-photon in situ synthesis and patterning of polymer-embedded nanocrystals. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9787		26
78	Integrated bottom-up and top-down soft lithographies and microfabrication approaches to multifunctional polymers. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7663	7.1	25

77	Optical gain from the open form of a photochromic molecule in the solid state. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 4506-9	3.4	25
76	Surface-enhanced Raman spectroscopy in 3D electrospun nanofiber mats coated with gold nanorods. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 1357-64	4.4	24
75	Spatially Confined CdS NCs in Situ Synthesis through Laser Irradiation of Suitable Unimolecular Precursor-Doped Polymer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25119-25125	3.8	24
74	Soft Nanopatterning on Light-Emitting Inorganic/Organic Composites. <i>Advanced Functional Materials</i> , 2008 , 18, 2692-2698	15.6	24
73	Sub-ms dynamics of the instability onset of electrospinning. <i>Soft Matter</i> , 2015 , 11, 3424-31	3.6	23
72	Planar organic photonic crystals fabricated by soft lithography. <i>Nanotechnology</i> , 2004 , 15, 766-770	3.4	20
71	Diverse Regimes of Mode Intensity Correlation in Nanofiber Random Lasers through Nanoparticle Doping. <i>ACS Photonics</i> , 2018 , 5, 1026-1033	6.3	19
70	Shear Piezoelectricity in Poly(vinylidene fluoride-co-trifluoroethylene): Full Piezotensor Coefficients by Molecular Modeling, Biaxial Transverse Response, and Use in Suspended Energy-Harvesting Nanostructures. <i>Advanced Materials</i> , 2016 , 28, 7633-9	24	19
69	Reversible Diffraction Efficiency of Photochromic Polymer Gratings Related to Photoinduced Dimensional Changes. <i>Advanced Functional Materials</i> , 2008 , 18, 1617-1623	15.6	19
68	Conformation of microcontact-printed proteins by atomic force microscopy molecular sizing. <i>Langmuir</i> , 2005 , 21, 5154-8	4	19
67	First-order imprinted organic distributed feedback lasers. <i>Synthetic Metals</i> , 2005 , 153, 237-240	3.6	19
66	Amplified Spontaneous Emission and Waveguiding Properties of the Colored Merocyanine Form of (1 <i>B</i> , <i>B</i>)-Dihydro-1 <i>B</i> , <i>B</i> -Erimethyl-6- nitrospiro[2 <i>H</i> -1-benzopyran-2,2'(2 <i>H</i>)-indole] Molecules. <i>Chemistry of Materials</i> , 2006 , 18, 4171-4175	9.6	19
65	Computational homogenization of fibrous piezoelectric materials. <i>Computational Mechanics</i> , 2015 , 55, 983-998	4	18
64	Polarization splitting in organic-based microcavities working in the strong coupling regime. <i>Organic Electronics</i> , 2007 , 8, 114-119	3.5	18
63	Electrically controlled white laser emission through liquid crystal/polymer multiphases. <i>Light: Science and Applications</i> , 2020 , 9, 19	16.7	16
62	Tuning polymorphism in 2,3-thienoimide capped oligothiophene based field-effect transistors by implementing vacuum and solution deposition methods. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5601-5608	7.1	16
61	Flexible organic field-effect transistors based on electrospun conjugated polymer nanofibers with high bending stability. <i>Organic Electronics</i> , 2014 , 15, 1056-1061	3.5	16
60	Rapid prototyping encapsulation for polymer light-emitting lasers. <i>Applied Physics Letters</i> , 2009 , 94, 123305	3.05	16

59	Emission properties of printed organic semiconductor lasers. <i>Optics Letters</i> , 2005 , 30, 260-2	3	15
58	Multifunctional Polymer Nanofibers: UV Emission, Optical Gain, Anisotropic Wetting, and High Hydrophobicity for Next Flexible Excitation Sources. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21907-12	9.5	14
57	Registration accuracy in multilevel soft lithography. <i>Nanotechnology</i> , 2007 , 18, 175302	3.4	14
56	Amplified spontaneous emission from a conjugated polymer undergone a high-temperature lithography cycle. <i>Applied Physics Letters</i> , 2005 , 86, 261104	3.4	14
55	Electrospun Conjugated Polymer/Fullerene Hybrid Fibers: Photoactive Blends, Conductivity through Tunneling-AFM, Light Scattering, and Perspective for Their Use in Bulk-Heterojunction Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3058-3067	3.8	13
54	Low-threshold blue-emitting monolithic polymer vertical cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 2006 , 89, 121111	3.4	13
53	Organic-based distributed feedback lasers by direct electron-beam lithography on conjugated polymers. <i>Applied Physics Letters</i> , 2007 , 91, 101110	3.4	12
52	Low-defectiveness exfoliation of MoS nanoparticles and their embedment in hybrid light-emitting polymer nanofibers. <i>Nanoscale</i> , 2018 , 10, 21748-21754	7.7	12
51	Laser Systems and Networks with Organic Nanowires and Nanofibers. <i>Advanced Optical Materials</i> , 2019 , 7, 1900192	8.1	11
50	The Secretome Derived From Mesenchymal Stromal Cells Cultured in a Xeno-Free Medium Promotes Human Cartilage Recovery. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 90	5.8	11
49	Electrostatic Mechanophores in Tuneable Light-Emitting Piezopolymer Nanowires. <i>Advanced Materials</i> , 2017 , 29, 1701031	24	10
48	Monolithic vertical microcavities based on tetracene single crystals. <i>Applied Physics Letters</i> , 2008 , 92, 063301	3.4	10
47	Polymer to polymer to polymer pattern transfer: Multiple molding for 100nm scale lithography. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 807		10
46	Full organic distributed feedback cavities based on a soluble electroluminescent oligothiophene. <i>Physical Review B</i> , 2004 , 70,	3.3	10
45	Rapid soft lithography by bottom-up enhanced capillarity. <i>Langmuir</i> , 2004 , 20, 4802-4	4	10
44	Polarization mode splitting in monolithic polymer microcavities. <i>Applied Physics Letters</i> , 2005 , 87, 031103	3.4	10
43	Rolling particle lithography by soft polymer microparticles. <i>Soft Matter</i> , 2013 , 9, 2206	3.6	9
42	Low-loss and highly polarized emission from planar polymer waveguides. <i>Optics Letters</i> , 2006 , 31, 1429-31	3.1	9

41	Micropatterning control of tubular commitment in human adult renal stem cells. <i>Biomaterials</i> , 2016 , 94, 57-69	15.6	9
40	Tailoring optical properties and stimulated emission in nanostructured polythiophene. <i>Scientific Reports</i> , 2019 , 9, 7370	4.9	8
39	Study of optical properties of electrospun light-emitting polymer fibers. <i>Superlattices and Microstructures</i> , 2010 , 47, 145-149	2.8	8
38	Lineage-Specific Commitment of Stem Cells with Organic and Graphene Oxide Functionalized Nanofibers. <i>Advanced Functional Materials</i> , 2019 , 29, 1806694	15.6	8
37	Enhanced Electrospinning of Active Organic Fibers by Plasma Treatment on Conjugated Polymer Solutions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26320-26329	9.5	7
36	Characterisation of Photocathodes Based on Pb Thin Film Deposited by UV Pulsed Laser Ablation. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 37-40	9.1	7
35	Advancing the Science and Technology of Electrospinning and Functional Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700237	3.9	6
34	The luminescence quantum yield of organic one-dimensional periodic nanostructures. <i>Nanotechnology</i> , 2004 , 15, 953-957	3.4	6
33	Combined capillary force and step and flash lithography. <i>Nanotechnology</i> , 2005 , 16, 391-395	3.4	6
32	Monolithic organic-oxide microcavities fabricated by low-temperature electron-beam evaporation. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1654		6
31	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. <i>Nature Communications</i> , 2020 , 11, 5991	17.4	6
30	Optimization of electrospinning techniques for the realization of nanofiber plastic lasers 2016 ,		5
29	Electrospun Fluorescent Nanofibers and Their Application in Optical Sensing. <i>Nanoscience and Technology</i> , 2015 , 129-155	0.6	5
28	Reversible wettability of electron-beam deposited indium-tin-oxide driven by ns-UV irradiation. <i>Applied Physics Letters</i> , 2012 , 100, 151607	3.4	5
27	Patterning photo-curable light-emitting organic composites by vertical and horizontal capillarity: a general route to photonic nanostructures. <i>Nanotechnology</i> , 2008 , 19, 335301	3.4	5
26	Thermal tunability of monolithic polymer microcavities. <i>Applied Physics Letters</i> , 2008 , 92, 253310	3.4	5
25	Hybrid Nanocomposites for 3D Optics: Using Interpolymer Complexes with Cellulose Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19324-19330	9.5	4
24	Conformable Nanowire-in-Nanofiber Hybrids for Low-Threshold Optical Gain in the Ultraviolet. <i>ACS Nano</i> , 2020 , 14, 8093-8102	16.7	4

23	Assembly of Pt Nanoparticles on Graphitized Carbon Nanofibers as Hierarchically Structured Electrodes. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9880-9888	5.6	4
22	Dye Stabilization and Wavelength Tunability in Lasing Fibers Based on DNA. <i>Advanced Optical Materials</i> , 2020 , 8, 2001039	8.1	4
21	Perspectives: Nanofibers and nanowires for disordered photonics. <i>APL Materials</i> , 2017 , 5, 035301	5.7	3
20	Room-temperature nanoimprinting on metallo-organic complexes. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 981		3
19	3D photo-responsive optical devices manufactured by advanced printing technologies 2019 ,		3
18	Electron-beam nanopatterning and spectral modulation of organic molecular light-emitting single crystals. <i>Langmuir</i> , 2014 , 30, 1643-9	4	2
17	Polymer nanofibers as novel light-emitting sources and lasing material 2013 ,		2
16	Imprinting strategies for 100nm lithography on polyfluorene and poly(phenylenevinylene) derivatives and their blends. <i>Materials Science and Engineering C</i> , 2007 , 27, 1428-1433	8.3	2
15	Solid-state laser devices based on an optically-confined oligothiophene-S,S-dioxide. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 458-461		2
14	Absolute luminescence efficiency and photonic band-gap effect of conjugated polymers with top-deposited distributed Bragg reflectors. <i>Chemical Physics Letters</i> , 2005 , 411, 316-320	2.5	2
13	Electron beam and mechanical lithographies as enabling factors for organic-based device fabrication. <i>Materials Science and Engineering C</i> , 2005 , 25, 848-852	8.3	2
12	Naturally Degradable Photonic Devices with Transient Function by Heterostructured Waxy-Sublimating and Water-Soluble Materials. <i>Advanced Science</i> , 2020 , 7, 2001594	13.6	2
11	Melt electrowriting of poly(vinylidene fluoride-co-trifluoroethylene). <i>Polymer International</i> , 2021 , 70, 1725	3.3	2
10	Control of photon transport properties in nanocomposite nanowires 2016 ,		1
9	Longitudinal coherence of organic-based microcavity lasers. <i>Optics Express</i> , 2008 , 16, 10384-9	3.3	1
8	Real-time monitoring of microfluidic lithography. <i>Synthetic Metals</i> , 2005 , 153, 325-328	3.6	1
7	Polymer microcavities by room temperature electron-beam evaporation of TiOx and SiOx. <i>Synthetic Metals</i> , 2005 , 153, 329-332	3.6	1
6	Oligomer molecules: first-principles investigation of the optical properties and applications to luminescent devices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 339, 106-111	3.3	1

- 5 In Situ Thermal, Photon, and Electron-Beam Synthesis of Polymer Nanocomposites **2014**, 145-178
- 4 Hybrid planar microresonators with organic and InGaAs active media. *Optics Express*, **2010**, 18, 11650-6 3.3
- 3 Novel nanofabrication techniques of organic optical cavities. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 531-534
- 2 Nanostructuring poly-[2-methoxy-5-(2-ethyl-hexyloxy)-p-phenylenevinylene] thin films by high-temperature soft lithography. *Synthetic Metals*, **2003**, 139, 679-681 3.6
- 1 Designing piezo- and pyroelectric energy harvesters **2022**, 267-293