Dario Pisignano

List of Publications by Year
in descending order

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311 papers	11,176 citations	38742 50 h-index	42399 92 g-index
315 all docs	315 docs citations	315 times ranked	15149 citing authors

#	Article	IF	Citations
1	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidenefluoride-co-trifluoroethylene). Nature Communications, 2013, 4, 1633.	12.8	1,001
2	Industrial Upscaling of Electrospinning and Applications of Polymer Nanofibers: A Review. Macromolecular Materials and Engineering, 2013, 298, 504-520.	3.6	750
3	Biocompatible surfactants for water-in-fluorocarbon emulsions. Lab on A Chip, 2008, 8, 1632.	6.0	589
4	Drop-based microfluidic devices for encapsulation of single cells. Lab on A Chip, 2008, 8, 1110.	6.0	470
5	Making silicon hydrophobic: wettability control by two-lengthscale simultaneous patterning with femtosecond laser irradiation. Nanotechnology, 2006, 17, 3234-3238.	2.6	242
6	Patterning of light-emitting conjugated polymer nanofibres. Nature Nanotechnology, 2008, 3, 614-619.	31.5	180
7	Osteoinduction of Human Mesenchymal Stem Cells by Bioactive Composite Scaffolds without Supplemental Osteogenic Growth Factors. PLoS ONE, 2011, 6, e26211.	2.5	178
8	Laser Emission from Electrospun Polymer Nanofibers. Small, 2009, 5, 562-566.	10.0	167
9	Active polymer nanofibers for photonics, electronics, energy generation and micromechanics. Progress in Polymer Science, 2015, 43, 48-95.	24.7	152
10	Enhanced Piezoelectricity of Electrospun Polyvinylidene Fluoride Fibers for Energy Harvesting. ACS Applied Materials & Interfaces, 2020, 12, 13575-13583.	8.0	148
11	Additive Manufacturing: Applications and Directions in Photonics and Optoelectronics. Advanced Optical Materials, 2019, 7, 1800419.	7.3	132
12	Nanotopographic Control of Neuronal Polarity. Nano Letters, 2011, 11, 505-511.	9.1	125
13	Lightâ€Emitting Electrospun Nanofibers for Nanophotonics and Optoelectronics. Macromolecular Materials and Engineering, 2013, 298, 487-503.	3.6	115
14	Organic single-layer white light-emitting diodes by exciplex emission from spin-coated blends of blue-emitting molecules. Applied Physics Letters, 2003, 82, 334-336.	3.3	112
15	Neuronal polarity selection by topography-induced focal adhesion control. Biomaterials, 2010, 31, 4682-4694.	11.4	107
16	Amplified spontaneous emission and efficient tunable laser emission from a substituted thiophene-based oligomer. Applied Physics Letters, 2002, 81, 3534-3536.	3.3	103
17	Photocontrolled Variations in the Wetting Capability of Photochromic Polymers Enhanced by Surface Nanostructuring. Langmuir, 2006, 22, 2329-2333.	3.5	103
18	Metal-Enhanced Near-Infrared Fluorescence by Micropatterned Gold Nanocages. ACS Nano, 2015, 9, 10047-10054.	14.6	96

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19	Local Mechanical Properties of Electrospun Fibers Correlate to Their Internal Nanostructure. Nano Letters, 2013, 13, 5056-5062.	9.1	94
20	Acoustic-counterflow microfluidics by surface acoustic waves. Applied Physics Letters, 2008, 92, .	3.3	90
21	Proliferation and skeletal myotube formation capability of C2C12 and H9c2 cells on isotropic and anisotropic electrospun nanofibrous PHB scaffolds. Biomedical Materials (Bristol), 2012, 7, 035010.	3.3	84
22	Electronic structure of indium-tin-oxide films fabricated by reactive electron-beam deposition. Physical Review B, 2005, 72, .	3.2	83
23	Room-Temperature Nanoimprint Lithography of Non-thermoplastic Organic Films. Advanced Materials, 2004, 16, 525-529.	21.0	82
24	Optical response and emission waveguiding in rubrene crystals. Physical Review B, 2007, 75, .	3.2	81
25	Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires. Advanced Materials, 2014, 26, 7574-7580.	21.0	81
26	Capillary filling in patterned channels. Physical Review E, 2008, 77, 067301.	2.1	80
27	Multilevel, Room-Temperature Nanoimprint Lithography for Conjugated Polymer-Based Photonics. Nano Letters, 2005, 5, 1915-1919.	9.1	77
28	Oligomer-based organic distributed feedback lasers by room-temperature nanoimprint lithography. Applied Physics Letters, 2003, 83, 2545-2547.	3.3	76
29	Photoswitchable Organic Nanofibers. Advanced Materials, 2008, 20, 314-318.	21.0	74
30	Strelitzia reginae Leaf as a Natural Template for Anisotropic Wetting and Superhydrophobicity. Langmuir, 2012, 28, 5312-5317.	3.5	74
31	Polymer nanogenerators: Opportunities and challenges for largeâ€scale applications. Journal of Applied Polymer Science, 2018, 135, 45674.	2.6	73
32	Rotational dynamics of optically trapped nanofibers. Optics Express, 2010, 18, 822.	3.4	69
33	A Bioartificial Renal Tubule Device Embedding Human Renal Stem/Progenitor Cells. PLoS ONE, 2014, 9, e87496.	2.5	69
34	Electrospun dye-doped polymer nanofibers emitting in the near infrared. Applied Physics Letters, 2007, 90, 143115.	3.3	67
35	Near-field electrospinning of light-emitting conjugated polymer nanofibers. Nanoscale, 2013, 5, 11637.	5.6	66
36	Combined Nanoâ€and Microâ€Scale Topographic Cues for Engineered Vascular Constructs by Electrospinning and Imprinted Microâ€Patterns. Small, 2014, 10, 2439-2450.	10.0	65

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37	Electrospun light-emitting nanofibers as excitation source in microfluidic devices. Lab on A Chip, 2009, 9, 2851.	6.0	64
38	Advances in Medical Applications of Additive Manufacturing. Engineering, 2020, 6, 1222-1231.	6.7	64
39	Bright Light Emission and Waveguiding in Conjugated Polymer Nanofibers Electrospun from Organic Salt Added Solutions. Macromolecules, 2013, 46, 5935-5942.	4.8	63
40	Solid-State Supramolecular Organization, Established Directly from Powder Diffraction Data, and Photoluminescence Efficiency of Rigid-Core Oligothiophene-S,S-dioxides. Journal of the American Chemical Society, 2003, 125, 12277-12283.	13.7	62
41	Polydimethylsiloxaneâ€“LiNbO3 surface acoustic wave micropump devices for fluid control into microchannels. Lab on A Chip, 2008, 8, 1557.	6.0	61
42	Silicateinsâ€”A Novel Paradigm in Bioinorganic Chemistry: Enzymatic Synthesis of Inorganic Polymeric Silica. Chemistry - A European Journal, 2013, 19, 5790-5804.	3.3	61
43	Transforming colloidal Cs₄PbBr₆ nanocrystals with poly(maleic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 intermediate heterostructures. Chemical Science, 2020, 11, 3986-3995.	7.4	59
44	Optical Anisotropy in Single Light-Emitting Polymer Nanofibers. Journal of Physical Chemistry C, 2011, 115, 20399-20405.	3.1	58
45	Twoâ€Photon Continuous Flow Lithography. Advanced Materials, 2012, 24, 1304-1308.	21.0	58
46	Patterning polyacrylamide hydrogels by soft lithography. Nanotechnology, 2005, 16, S165-S170.	2.6	55
47	Dielectric tensor of tetracene single crystals: The effect of anisotropy on polarized absorption and emission spectra. Journal of Chemical Physics, 2008, 128, 154709.	3.0	55
48	Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. Macromolecular Materials and Engineering, 2017, 302, 1600569.	3.6	55
49	New Branched Thiophene-Based Oligomers for Bright Organic Light-Emitting Devices. Advanced Materials, 2003, 15, 2060-2063.	21.0	54
50	Single light-emitting polymer nanofiber field-effect transistors. Nanoscale, 2010, 2, 2217.	5.6	53
51	Near-infrared imprinted distributed feedback lasers. Applied Physics Letters, 2006, 89, 201105.	3.3	51
52	A nanophotonic laser on a graph. Nature Communications, 2019, 10, 226.	12.8	51
53	Models of polymer solutions in electrified jets and solution blowing. Reviews of Modern Physics, 2020, 92, .	45.6	51
54	Surface-acoustic-wave counterflow micropumps for on-chip liquid motion control in two-dimensional microchannel arrays. Lab on A Chip, 2010, 10, 1997.	6.0	50

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55	Maneuvering the Migration and Differentiation of Stem Cells with Electrospun Nanofibers. Advanced Science, 2020, 7, 2000735.	11.2	49
56	Collagen-functionalised electrospun polymer fibers for bioengineering applications. Soft Matter, 2010, 6, 1668.	2.7	48
57	Selfâ€assembled CdSe/CdS nanorod microâ€lasers fabricated from solution by capillary jet deposition. Laser and Photonics Reviews, 2012, 6, 678-683.	8.7	47
58	Three-Dimensional Printable Conductive Semi-Interpenetrating Polymer Network Hydrogel for Neural Tissue Applications. Biomacromolecules, 2021, 22, 3084-3098.	5.4	46
59	A cryptochromeâ€based photosensory system in the siliceous sponge Suberitesâ€ƒdomuncula (Demospongiae). FEBS Journal, 2010, 277, 1182-1201.	4.7	45
60	Light-emitting nanocomposite CdSâ€“polymer electrospun fibres via in situ nanoparticle generation. Nanoscale, 2011, 3, 4234.	5.6	44
61	Electrically Tunable Organic Distributed Feedback Lasers Embedding Nonlinear Optical Molecules. Advanced Materials, 2012, 24, OP221-5.	21.0	44
62	Distributed Feedback Imprinted Electrospun Fiber Lasers. Advanced Materials, 2014, 26, 6542-6547.	21.0	44
63	Luciferase a light source for the silica-based optical waveguides (spicules) in the demosponge Suberites domuncula. Cellular and Molecular Life Sciences, 2009, 66, 537-552.	5.4	43
64	Monolithic polymer microcavity lasers with on-top evaporated dielectric mirrors. Applied Physics Letters, 2006, 88, 121110.	3.3	42
65	Physically Transient Photonics: Random versus Distributed Feedback Lasing Based on Nanoimprinted DNA. ACS Nano, 2014, 8, 10893-10898.	14.6	42
66	Organic Nanofibers Embedding Stimuli-Responsive Threaded Molecular Components. Journal of the American Chemical Society, 2014, 136, 14245-14254.	13.7	42
67	GBr6NL: A generalized Born method for accurately reproducing solvation energy of the nonlinear Poisson-Boltzmann equation. Journal of Chemical Physics, 2007, 126, 195102.	3.0	41
68	Self-assembled extracellular matrix protein networks by microcontact printing. Biomaterials, 2004, 25, 1349-1353.	11.4	40
69	Polymeric distributed feedback lasers by room-temperature nanoimprint lithography. Applied Physics Letters, 2006, 89, 131109.	3.3	40
70	Polarized superradiance from delocalized exciton transitions in tetracene single crystals. Physical Review B, 2010, 81, .	3.2	40
71	Bright oligothiophene-based light emitting diodes. Synthetic Metals, 2003, 139, 671-673.	3.9	39
72	Soft molding lithography of conjugated polymers. Applied Physics Letters, 2004, 84, 1365-1367.	3.3	39

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73	Evidence of thin-film precursors formation in hydrokinetic and atomistic simulations of nano-channel capillary filling. Europhysics Letters, 2008, 84, 44003.	2.0	39
74	Circularly Polarized Laser with Chiral Nematic Cellulose Nanocrystal Cavity. ACS Nano, 2021, 15, 8753-8760.	14.6	39
75	Interaction Scheme and Temperature Behavior of Energy Transfer in a Lightâ€Emitting Inorganicâ€Organic Composite System. Advanced Functional Materials, 2008, 18, 751-757.	14.9	37
76	CdSâ€“Polymer Nanocomposites and Lightâ€Emitting Fibers by In Situ Electronâ€Beam Synthesis and Lithography. Advanced Materials, 2012, 24, 5320-5326.	21.0	37
77	Full color control and white emission from conjugated polymer nanofibers. Applied Physics Letters, 2009, 94, .	3.3	36
78	Printing Flowers? Custom-Tailored Photonic Cellulose Films with Engineered Surface Topography. Matter, 2019, 1, 988-1000.	10.0	36
79	Interplay between Shape and Roughness in Early-Stage Microcapillary Imbibition. Langmuir, 2012, 28, 2596-2603.	3.5	35
80	Microvascular endothelial cell spreading and proliferation on nanofibrous scaffolds by polymer blends with enhanced wettability. Soft Matter, 2013, 9, 5529.	2.7	35
81	Controlling spontaneous surface structuring of azobenzene-containing polymers for large-scale nano-lithography of functional substrates. Applied Physics Letters, 2013, 102, .	3.3	35
82	White emission from organic light emitting diodes based on energy down-convertion mechanisms. Synthetic Metals, 2003, 139, 675-677.	3.9	34
83	Dry Transient Electronic Systems by Use of Materials that Sublime. Advanced Functional Materials, 2017, 27, 1606008.	14.9	34
84	Two-Photon Induced Self-Structuring of Polymeric Films Based on Y-Shape Azobenzene Chromophore. Journal of Physical Chemistry C, 2011, 115, 13566-13570.	3.1	33
85	Modal Coupling of Single Photon Emitters Within Nanofiber Waveguides. ACS Nano, 2016, 10, 6125-6130.	14.6	33
86	Polymer nanofibers by soft lithography. Applied Physics Letters, 2005, 87, 123109.	3.3	32
87	A methodology to orient carbon nanotubes in a thermosetting matrix. Composites Science and Technology, 2014, 96, 47-55.	7.8	32
88	Amplified spontaneous emission in quaterthiophene single crystals. Applied Physics Letters, 2008, 92, .	3.3	31
89	Enhancement of light polarization from electrospun polymer fibers by room temperature nanoimprint lithography. Nanotechnology, 2010, 21, 215304.	2.6	31
90	Conformational Evolution of Elongated Polymer Solutions Tailors the Polarization of Light-Emission from Organic Nanofibers. Macromolecules, 2014, 47, 4704-4710.	4.8	31

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91	Electrically controlled white laser emission through liquid crystal/polymer multiphases. Light: Science and Applications, 2020, 9, 19.	16.6	31
92	Design and fabrication of on-fiber diffractive elements for fiber-waveguide coupling by means of e-beam lithography. Microelectronic Engineering, 2003, 67-68, 169-174.	2.4	30
93	Role of doping concentration on the competition between amplified spontaneous emission and nonradiative energy transfer in blends of conjugated polymers. Physical Review B, 2006, 73, .	3.2	30
94	Controlled Atmosphere Electrospinning of Organic Nanofibers with Improved Light Emission and Waveguiding Properties. Macromolecules, 2015, 48, 7803-7809.	4.8	30
95	PC12 neuron-like cell response to electrospun poly(â€‰3-hydroxybutyrate) substrates. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 151-161.	2.7	30
96	Threading through Macrocycles Enhances the Performance of Carbon Nanotubes as Polymer Fillers. ACS Nano, 2016, 10, 8012-8018.	14.6	30
97	When nanocellulose meets diffraction grating: freestanding photonic paper with programmable optical coupling. Materials Horizons, 2020, 7, 511-519.	12.2	30
98	Very high-quality distributed Bragg reflectors for organic lasing applications by reactive electron-beam deposition. Optics Express, 2006, 14, 1951.	3.4	29
99	Axial optical trapping efficiency through a dielectric interface. Physical Review E, 2007, 76, 061917.	2.1	29
100	Morphology of Sponge Spicules: Silicatein a Structural Protein for Bioâ€Silica Formation. Advanced Engineering Materials, 2010, 12, B422.	3.5	29
101	Sub-ms dynamics of the instability onset of electrospinning. Soft Matter, 2015, 11, 3424-3431.	2.7	29
102	Reversibly Photo-Responsive Polymer Surfaces for Controlled Wettability. Journal of Adhesion Science and Technology, 2008, 22, 1853-1868.	2.6	28
103	Integrated bottom-up and top-down soft lithographies and microfabrication approaches to multifunctional polymers. Journal of Materials Chemistry C, 2013, 1, 7663.	5.5	28
104	Spatially Confined CdS NCs in Situ Synthesis through Laser Irradiation of Suitable Unimolecular Precursor-Doped Polymer. Journal of Physical Chemistry C, 2012, 116, 25119-25125.	3.1	27
105	Surface-enhanced Raman spectroscopy in 3D electrospun nanofiber mats coated with gold nanorods. Analytical and Bioanalytical Chemistry, 2016, 408, 1357-1364.	3.7	27
106	High-Temperature Microfluidic Lithography. Advanced Materials, 2002, 14, 1565-1567.	21.0	26
107	Optical Gain from the Open Form of a Photochromic Molecule in the Solid State. Journal of Physical Chemistry B, 2006, 110, 4506-4509.	2.6	26
108	Two-photon patterning of a polymer containing Y-shaped azochromophores. Applied Physics Letters, 2009, 94, 011115.	3.3	26

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109	Multi-photon in situ synthesis and patterning of polymer-embedded nanocrystals. Journal of Materials Chemistry, 2012, 22, 9787.	6.7	26
110	Optical Gain in the Near Infrared by Lightâ€Emitting Electrospun Fibers. Advanced Functional Materials, 2014, 24, 5225-5231.	14.9	26
111	All-optical switching in dye-doped DNA nanofibers. Journal of Materials Chemistry C, 2019, 7, 170-176.	5.5	26
112	Energy Dissipation and Asymmetric Excitation in Hybrid Waveguides for Routing and Coloring. Journal of Physical Chemistry Letters, 2021, 12, 7034-7040.	4.6	26
113	Coreâ€“Shell Electrospun Fibers Encapsulating Chromophores or Luminescent Proteins for Microscopically Controlled Molecular Release. Molecular Pharmaceutics, 2016, 13, 729-736.	4.6	25
114	Study of the relaxation behaviour of a tri-epoxy compound in the supercooled and glassy state by broadband dielectric spectroscopy. Journal of Physics Condensed Matter, 2001, 13, 4405-4419.	1.8	24
115	Amplified spontaneous emission in the near infrared from a dye-doped polymer thin film. Synthetic Metals, 2004, 143, 305-307.	3.9	24
116	Smart photochromic gratings with switchable wettability realized by green-light interferometry. Applied Physics Letters, 2006, 88, 203124.	3.3	24
117	Soft Nanopatterning on Lightâ€Emitting Inorganicâ€“Organic Composites. Advanced Functional Materials, 2008, 18, 2692-2698.	14.9	24
118	Effect of finite terms on the truncation error of Mie series. Optics Letters, 2012, 37, 2418.	3.3	24
119	Diverse Regimes of Mode Intensity Correlation in Nanofiber Random Lasers through Nanoparticle Doping. ACS Photonics, 2018, 5, 1026-1033.	6.6	24
120	Planar organic photonic crystals fabricated by soft lithography. Nanotechnology, 2004, 15, 766-770.	2.6	23
121	Reversible Diffraction Efficiency of Photochromic Polymer Gratings Related to Photoinduced Dimensional Changes. Advanced Functional Materials, 2008, 18, 1617-1623.	14.9	23
122	Realization of submicrometer structures by a confocal system on azopolymer films containing photoluminescent chromophores. Journal of Applied Physics, 2010, 107, .	2.5	23
123	Random lasing in an organic lightâ€emitting crystal and its interplay with vertical cavity feedback. Laser and Photonics Reviews, 2014, 8, 785-791.	8.7	23
124	The Secretome Derived From Mesenchymal Stromal Cells Cultured in a Xeno-Free Medium Promotes Human Cartilage Recovery in vitro. Frontiers in Bioengineering and Biotechnology, 2020, 8, 90.	4.1	23
125	Evagination of Cells Controls Bio-Silica Formation and Maturation during Spicule Formation in Sponges. PLoS ONE, 2011, 6, e20523.	2.5	23
126	Amplified Spontaneous Emission and Waveguiding Properties of the Colored Merocyanine Form of		

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127	Generalized ellipsometry and dielectric tensor of rubrene single crystals. Journal of Applied Physics, 2007, 102, .	2.5	22
128	Flashing light signaling circuit in sponges: Endogenous light generation after tissue ablation in Suberites domuncula. Journal of Cellular Biochemistry, 2010, 111, 1377-1389.	2.6	22
129	Reduction of water evaporation in polymerase chain reaction microfluidic devices based on oscillating-flow. Biomicrofluidics, 2010, 4, .	2.4	22
130	Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometerâ€Scale Spatial Resolution. Small, 2015, 11, 6417-6424.	10.0	22
131	Computational homogenization of fibrous piezoelectric materials. Computational Mechanics, 2015, 55, 983-998.	4.0	22
132	Shear Piezoelectricity in Poly(vinylidenefluorideâ€coâ€trifluoroethylene): Full Piezotensor Coefficients by Molecular Modeling, Biaxial Transverse Response, and Use in Suspended Energyâ€Harvesting Nanostructures. Advanced Materials, 2016, 28, 7633-7639.	21.0	22
133	Highly sticky surfaces made by electrospun polymer nanofibers. RSC Advances, 2017, 7, 5836-5842.	3.6	22
134	First-order imprinted organic distributed feedback lasers. Synthetic Metals, 2005, 153, 237-240.	3.9	21
135	Polarization splitting in organic-based microcavities working in the strong coupling regime. Organic Electronics, 2007, 8, 114-119.	2.6	21
136	Rapid nested-PCR for tyrosinase gene detection on chip. Biosensors and Bioelectronics, 2011, 26, 2711-2715.	10.1	21
137	Flexible organic field-effect transistors based on electrospun conjugated polymer nanofibers with high bending stability. Organic Electronics, 2014, 15, 1056-1061.	2.6	21
138	The sponge silicatein-interacting protein silintaphin-2 blocks calcite formation of calcareous sponge spicules at the vaterite stage. RSC Advances, 2014, 4, 2577-2585.	3.6	21
139	Tuning polymorphism in 2,3-thienoimide capped oligothiophene based field-effect transistors by implementing vacuum and solution deposition methods. Journal of Materials Chemistry C, 2018, 6, 5601-5608.	5.5	21
140	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. Nature Communications, 2020, 11, 5991.	12.8	21
141	Unusual Red Light Emission from Nonmetallic Cu₂Te Microdisk for Laser and SERS Applications. Advanced Optical Materials, 2022, 10, 2101976.	7.3	21
142	Conformation of Microcontact-Printed Proteins by Atomic Force Microscopy Molecular Sizing. Langmuir, 2005, 21, 5154-5158.	3.5	20
143	Polarized Absorption, Spontaneous and Stimulated Blue Light Emission of Jâ€type Tetraphenylbutadiene Monocrystals. ChemPhysChem, 2010, 11, 429-434.	2.1	20
144	Effects of orthogonal rotating electric fields on electrospinning process. Physics of Fluids, 2017, 29, .	4.0	20

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145	Combination of microstructuring and laser-light irradiation for the reversible wettability of photosensitised polymer surfaces. Applied Physics A: Materials Science and Processing, 2006, 83, 351-356.	2.3	19
146	Microfluidic Rheology of Non-Newtonian Liquids. Analytical Chemistry, 2007, 79, 5856-5861.	6.5	19
147	Microdroplet-based multiplex PCR on chip to detect foodborne bacteria producing biogenic amines. Food Microbiology, 2013, 35, 10-14.	4.2	19
148	JETSPIN: A specific-purpose open-source software for simulations of nanofiber electrospinning. Computer Physics Communications, 2015, 197, 227-238.	7.5	19
149	Entropic lattice Boltzmann model for charged leaky dielectric multiphase fluids in electrified jets. Physical Review E, 2018, 97, 033308.	2.1	19
150	An electrospun fiber phototransistor by the conjugated polymer poly[2-methoxy-5-(2â€™-ethylhexyloxy)-1,4-phenylene-vinylene]. Applied Physics Letters, 2011, 98, .	3.3	18
151	Optical properties of in-vitro biomineralised silica. Scientific Reports, 2012, 2, 607.	3.3	18
152	Effects of non-linear rheology on electrospinning process: A model study. Mechanics Research Communications, 2014, 61, 41-46.	1.8	18
153	Nanoparticle-doped electrospun fiber random lasers with spatially extended light modes. Optics Express, 2017, 25, 24604.	3.4	18
154	Photocontrolled wettability changes in polymer microchannels doped with photochromic molecules. Applied Physics Letters, 2007, 91, 113113.	3.3	17
155	Hierarchical assembly of light-emitting polymer nanofibers in helical morphologies. Applied Physics Letters, 2009, 95, .	3.3	17
156	Enhanced charge-carrier mobility in polymer nanofibers realized by solvent-resistant soft nanolithography. Journal of Materials Chemistry, 2012, 22, 18051.	6.7	17
157	Electrospun Amplified Fiber Optics. ACS Applied Materials & Interfaces, 2015, 7, 5213-5218.	8.0	17
158	Electrospun Filaments Embedding Bioactive Glass Particles with Ion Release and Enhanced Mineralization. Nanomaterials, 2019, 9, 182.	4.1	17
159	On the evaluation of output voltages for quantifying the performance of pyroelectric energy harvesters. Nano Energy, 2021, 86, 106045.	16.0	17
160	Emission properties of printed organic semiconductor lasers. Optics Letters, 2005, 30, 260.	3.3	16
161	Registration accuracy in multilevel soft lithography. Nanotechnology, 2007, 18, 175302.	2.6	16
162	Ultraviolet-based bonding for perfluoropolyether low aspect-ratio microchannels and hybrid devices. Lab on A Chip, 2008, 8, 1394.	6.0	16

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163	Rapid prototyping encapsulation for polymer light-emitting lasers. Applied Physics Letters, 2009, 94, .	3.3	16
164	Biosilica Electricallyâ€Insulating Layers by Soft Lithographyâ€Assisted Biomineralisation with Recombinant Silicatein. Advanced Materials, 2011, 23, 4674-4678.	21.0	16
165	Enhanced emission efficiency in electrospun polyfluorene copolymer fibers. Applied Physics Letters, 2013, 102, 211911.	3.3	16
166	Multifunctional Polymer Nanofibers: UV Emission, Optical Gain, Anisotropic Wetting, and High Hydrophobicity for Next Flexible Excitation Sources. ACS Applied Materials & Interfaces, 2015, 7, 21907-21912.	8.0	16
167	Anisotropic Conjugated Polymer Chain Conformation Tailors the Energy Migration in Nanofibers. Journal of the American Chemical Society, 2016, 138, 15497-15505.	13.7	16
168	Low-defectiveness exfoliation of MoS2 nanoparticles and their embedment in hybrid light-emitting polymer nanofibers. Nanoscale, 2018, 10, 21748-21754.	5.6	16
169	Heterogeneous Random Laser with Switching Activity Visualized by Replica Symmetry Breaking Maps. ACS Photonics, 2021, 8, 376-383.	6.6	16
170	Optically controlled liquid flow in initially prohibited elastomeric nanocomposite micro-paths. RSC Advances, 2012, 2, 9543.	3.6	15
171	Three-Dimensional Model for Electrospinning Processes in Controlled Gas Counterflow. Journal of Physical Chemistry A, 2016, 120, 4884-4892.	2.5	15
172	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. Journal of Physical Chemistry C, 2018, 122, 3058-3067.	3.1	15
173	Laser Systems and Networks with Organic Nanowires and Nanofibers. Advanced Optical Materials, 2019, 7, 1900192.	7.3	15
174	Amplified spontaneous emission from a conjugated polymer undergone a high-temperature lithography cycle. Applied Physics Letters, 2005, 86, 261104.	3.3	14
175	Directed Functionalization Tailors the Polarized Emission and Waveguiding Properties of Anthracene-Based Molecular Crystals. Chemistry of Materials, 2019, 31, 1775-1783.	6.7	14
176	Influence of the end groups on dynamics of propylene glycol oligomers studied by wideband dielectric spectroscopy. Journal of Non-Crystalline Solids, 2002, 307-310, 238-245.	3.1	13
177	Flexible organic distributed feedback structures by soft lithography. Synthetic Metals, 2003, 137, 1057-1058.	3.9	13
178	Controlling non-radiative energy transfer in organic binary blends: a route towards colour tunability and white emission from single-active-layer light-emitting devices. Journal Physics D: Applied Physics, 2003, 36, 2483-2486.	2.8	13
179	Rapid Soft Lithography by Bottom-Up Enhanced Capillarity. Langmuir, 2004, 20, 4802-4804.	3.5	13
180	Microfluidic Motion for a Direct Investigation of the Structural Dynamics of Glass-Forming Liquids. Analytical Chemistry, 2005, 77, 591-595.	6.5	13

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181	Low-threshold blue-emitting monolithic polymer vertical cavity surface-emitting lasers. Applied Physics Letters, 2006, 89, 121111.	3.3	13
182	Organic-based distributed feedback lasers by direct electron-beam lithography on conjugated polymers. Applied Physics Letters, 2007, 91, 101110.	3.3	13
183	Micropatterning control of tubular commitment in human adult renal stem cells. Biomaterials, 2016, 94, 57-69.	11.4	13
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