Dario Pisignano

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296 papers	9,349 citations	47 h-index	84 g-index
315 ext. papers	10,287 ext. citations	7.3 avg, IF	6.13 L-index

#	Paper	IF	Citations
296	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidenefluoride-co-trifluoroethylene). *Nature Communications*, **2013**, 4, 1633	17.4	821
295	Industrial Upscaling of Electrospinning and Applications of Polymer Nanofibers: A Review. *Macromolecular Materials and Engineering*, **2013**, 298, 504-520	3.9	619
294	Biocompatible surfactants for water-in-fluorocarbon emulsions. *Lab on A Chip*, **2008**, 8, 1632-9	7.2	508
293	Drop-based microfluidic devices for encapsulation of single cells. *Lab on A Chip*, **2008**, 8, 1110-5	7.2	409
292	Making silicon hydrophobic: wettability control by two-lengthscale simultaneous patterning with femtosecond laser irradiation.. *Nanotechnology*, **2006**, 17,	3.4	216
291	Patterning of light-emitting conjugated polymer nanofibres. *Nature Nanotechnology*, **2008**, 3, 614-9	28.7	161
290	Osteoinduction of human mesenchymal stem cells by bioactive composite scaffolds without supplemental osteogenic growth factors. *PLoS ONE*, **2011**, 6, e26211	3.7	154
289	Laser emission from electrospun polymer nanofibers. *Small*, **2009**, 5, 562-6	11	150
288	Active polymer nanofibers for photonics, electronics, energy generation and micromechanics. *Progress in Polymer Science*, **2015**, 43, 48-95	29.6	135
287	Nanotopographic control of neuronal polarity. *Nano Letters*, **2011**, 11, 505-11	11.5	109
286	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	3.4	104
285	Neuronal polarity selection by topography-induced focal adhesion control. *Biomaterials*, **2010**, 31, 4682-94	8.6	100
284	Amplified spontaneous emission and efficient tunable laser emission from a substituted thiophene-based oligomer. *Applied Physics Letters*, **2002**, 81, 3534-3536	3.4	98
283	Photocontrolled variations in the wetting capability of photochromic polymers enhanced by surface nanostructuring. *Langmuir*, **2006**, 22, 2329-33	4	97
282	Light-Emitting Electrospun Nanofibers for Nanophotonics and Optoelectronics. *Macromolecular Materials and Engineering*, **2013**, 298, 487-503	3.9	94
281	Metal-Enhanced Near-Infrared Fluorescence by Micropatterned Gold Nanocages. *ACS Nano*, **2015**, 9, 10047-54	16.7	88
280	Local mechanical properties of electrospun fibers correlate to their internal nanostructure. *Nano Letters*, **2013**, 13, 5056-62	11.5	79

279	Room-Temperature Nanoimprint Lithography of Non-thermoplastic Organic Films. *Advanced Materials*, **2004**, 16, 525-529	24	79
278	Acoustic-counterflow microfluidics by surface acoustic waves. *Applied Physics Letters*, **2008**, 92, 104103	3.4	76
277	Electronic structure of indium-tin-oxide films fabricated by reactive electron-beam deposition. *Physical Review B*, **2005**, 72,	3.3	76
276	Multilevel, room-temperature nanoimprint lithography for conjugated polymer-based photonics. *Nano Letters*, **2005**, 5, 1915-9	11.5	75
275	Additive Manufacturing: Applications and Directions in Photonics and Optoelectronics. *Advanced Optical Materials*, **2019**, 7, 1800419	8.1	75
274	Capillary filling in patterned channels. *Physical Review E*, **2008**, 77, 067301	2.4	74
273	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	3.5	73
272	Optical response and emission waveguiding in rubrene crystals. *Physical Review B*, **2007**, 75,	3.3	73
271	Enhanced Piezoelectricity of Electrospun Polyvinylidene Fluoride Fibers for Energy Harvesting. *ACS Applied Materials & Interfaces*, **2020**, 12, 13575-13583	9.5	72
270	Strelitzia reginae leaf as a natural template for anisotropic wetting and superhydrophobicity. *Langmuir*, **2012**, 28, 5312-7	4	70
269	Photoswitchable Organic Nanofibers. *Advanced Materials*, **2008**, 20, 314-318	24	69
268	Cooperativity in the enhanced piezoelectric response of polymer nanowires. *Advanced Materials*, **2014**, 26, 7574-80	24	68
267	Oligomer-based organic distributed feedback lasers by room-temperature nanoimprint lithography. *Applied Physics Letters*, **2003**, 83, 2545-2547	3.4	62
266	Electrospun dye-doped polymer nanofibers emitting in the near infrared. *Applied Physics Letters*, **2007**, 90, 143115	3.4	61
265	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, 12277-83	16.4	61
264	Electrospun light-emitting nanofibers as excitation source in microfluidic devices. *Lab on A Chip*, **2009**, 9, 2851-6	7.2	60
263	Bright Light Emission and Waveguiding in Conjugated Polymer Nanofibers Electrospun from Organic Salt Added Solutions. *Macromolecules*, **2013**, 46, 5935-5942	5.5	58
262	Near-field electrospinning of light-emitting conjugated polymer nanofibers. *Nanoscale*, **2013**, 5, 11637-42	7.7	58

261	A bioartificial renal tubule device embedding human renal stem/progenitor cells. *PLoS ONE*, **2014**, 9, e87496	3.7	57
260	Silicateins--a novel paradigm in bioinorganic chemistry: enzymatic synthesis of inorganic polymeric silica. *Chemistry - A European Journal*, **2013**, 19, 5790-804	4.8	55
259	Optical Anisotropy in Single Light-Emitting Polymer Nanofibers. *Journal of Physical Chemistry C*, **2011**, 115, 20399-20405	3.8	55
258	Polymer nanogenerators: Opportunities and challenges for large-scale applications. *Journal of Applied Polymer Science*, **2018**, 135, 45674	2.9	53
257	Rotational dynamics of optically trapped nanofibers. *Optics Express*, **2010**, 18, 822-30	3.3	53
256	New Branched Thiophene-Based Oligomers for Bright Organic Light-Emitting Devices. *Advanced Materials*, **2003**, 15, 2060-2063	24	50
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254	Combined nano- and micro-scale topographic cues for engineered vascular constructs by electrospinning and imprinted micro-patterns. *Small*, **2014**, 10, 2439-50	11	48
253	Collagen-functionalised electrospun polymer fibers for bioengineering applications. *Soft Matter*, **2010**, 6, 1668	3.6	48
252	Polydimethylsiloxane-LiNbO3 surface acoustic wave micropump devices for fluid control into microchannels. *Lab on A Chip*, **2008**, 8, 1557-63	7.2	48
251	Single light-emitting polymer nanofiber field-effect transistors. *Nanoscale*, **2010**, 2, 2217-22	7.7	47
250	Dielectric tensor of tetracene single crystals: the effect of anisotropy on polarized absorption and emission spectra. *Journal of Chemical Physics*, **2008**, 128, 154709	3.9	47
249	Patterning polyacrylamide hydrogels by soft lithography. *Nanotechnology*, **2005**, 16, S165-S170	3.4	47
248	Near-infrared imprinted distributed feedback lasers. *Applied Physics Letters*, **2006**, 89, 201105	3.4	46
247	A cryptochrome-based photosensory system in the siliceous sponge Suberites domuncula (Demospongiae). *FEBS Journal*, **2010**, 277, 1182-201	5.7	45
246	Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. *Macromolecular Materials and Engineering*, **2017**, 302, 1600569	3.9	43
245	Surface-acoustic-wave counterflow micropumps for on-chip liquid motion control in two-dimensional microchannel arrays. *Lab on A Chip*, **2010**, 10, 1997-2000	7.2	43
244	Light-emitting nanocomposite CdS-polymer electrospun fibres via in situ nanoparticle generation. *Nanoscale*, **2011**, 3, 4234-9	7.7	42

243	Electrically tunable organic distributed feedback lasers embedding nonlinear optical molecules. *Advanced Materials*, **2012**, 24, OP221-5	24	41
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240	Self-assembled CdSe/CdS nanorod micro-lasers fabricated from solution by capillary jet deposition. *Laser and Photonics Reviews*, **2012**, 6, 678-683	8.3	39
239	Polymeric distributed feedback lasers by room-temperature nanoimprint lithography. *Applied Physics Letters*, **2006**, 89, 131109	3.4	38
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236	Transforming colloidal CsPbBr nanocrystals with poly(maleic anhydride--1-octadecene) into stable CsPbBr perovskite emitters through intermediate heterostructures. *Chemical Science*, **2020**, 11, 3986-3995	8.4	37
235	Organic nanofibers embedding stimuli-responsive threaded molecular components. *Journal of the American Chemical Society*, **2014**, 136, 14245-54	16.4	37
234	Soft molding lithography of conjugated polymers. *Applied Physics Letters*, **2004**, 84, 1365-1367	3.4	37
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205	Integrated bottom-up and top-down soft lithographies and microfabrication approaches to multifunctional polymers. *Journal of Materials Chemistry C*, **2013**, 1, 7663	7.1	25
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198	Soft Nanopatterning on Light-Emitting Inorganic□Organic Composites. *Advanced Functional Materials*, **2008**, 18, 2692-2698	15.6	24
197	High-Temperature Microfluidic Lithography. *Advanced Materials*, **2002**, 14, 1565-1567	24	24
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192	Printing Flowers? Custom-Tailored Photonic Cellulose Films with Engineered Surface Topography. *Matter*, **2019**, 1, 988-1000	12.7	23
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180	Diverse Regimes of Mode Intensity Correlation in Nanofiber Random Lasers through Nanoparticle Doping. *ACS Photonics*, **2018**, 5, 1026-1033	6.3	19
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177	Random lasing in an organic light-emitting crystal and its interplay with vertical cavity feedback. *Laser and Photonics Reviews*, **2014**, 8, 785-791	8.3	19
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174	Conformation of microcontact-printed proteins by atomic force microscopy molecular sizing. *Langmuir*, **2005**, 21, 5154-8	4	19
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166	Effect of finite terms on the truncation error of Mie series. *Optics Letters*, **2012**, 37, 2418-20	3	18
165	Polarized absorption, spontaneous and stimulated blue light emission of J-type tetraphenylbutadiene monocrystals. *ChemPhysChem*, **2010**, 11, 429-34	3.2	18
164	Polarization splitting in organic-based microcavities working in the strong coupling regime. *Organic Electronics*, **2007**, 8, 114-119	3.5	18
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162	Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometer-Scale Spatial Resolution. *Small*, **2015**, 11, 6417-24	11	17
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160	Rapid nested-PCR for tyrosinase gene detection on chip. *Biosensors and Bioelectronics*, **2011**, 26, 2711-5	11.8	17
159	Hierarchical assembly of light-emitting polymer nanofibers in helical morphologies. *Applied Physics Letters*, **2009**, 95, 263301	3.4	17
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144	Emission properties of printed organic semiconductor lasers. *Optics Letters*, **2005**, 30, 260-2	3	15
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