Andrea Camposeo

List of Publications by Citations

141 papers	3,925 citations	34 h-index	56 g-index
151 ext. papers	4,332 ext. citations	7.5 avg, IF	5.43 L-index

#	Paper	IF	Citations
141	Industrial Upscaling of Electrospinning and Applications of Polymer Nanofibers: A Review. *Macromolecular Materials and Engineering*, **2013**, 298, 504-520	3.9	619
140	Patterning of light-emitting conjugated polymer nanofibres. *Nature Nanotechnology*, **2008**, 3, 614-9	28.7	161
139	Laser emission from electrospun polymer nanofibers. *Small*, **2009**, 5, 562-6	11	150
138	Active polymer nanofibers for photonics, electronics, energy generation and micromechanics. *Progress in Polymer Science*, **2015**, 43, 48-95	29.6	135
137	Light-Emitting Electrospun Nanofibers for Nanophotonics and Optoelectronics. *Macromolecular Materials and Engineering*, **2013**, 298, 487-503	3.9	94
136	Metal-Enhanced Near-Infrared Fluorescence by Micropatterned Gold Nanocages. *ACS Nano*, **2015**, 9, 10047-54	16.7	88
135	Local mechanical properties of electrospun fibers correlate to their internal nanostructure. *Nano Letters*, **2013**, 13, 5056-62	11.5	79
134	Additive Manufacturing: Applications and Directions in Photonics and Optoelectronics. *Advanced Optical Materials*, **2019**, 7, 1800419	8.1	75
133	Optical response and emission waveguiding in rubrene crystals. *Physical Review B*, **2007**, 75,	3.3	73
132	Photoswitchable Organic Nanofibers. *Advanced Materials*, **2008**, 20, 314-318	24	69
131	Electrospun dye-doped polymer nanofibers emitting in the near infrared. *Applied Physics Letters*, **2007**, 90, 143115	3.4	61
130	Electrospun light-emitting nanofibers as excitation source in microfluidic devices. *Lab on A Chip*, **2009**, 9, 2851-6	7.2	60
129	Bright Light Emission and Waveguiding in Conjugated Polymer Nanofibers Electrospun from Organic Salt Added Solutions. *Macromolecules*, **2013**, 46, 5935-5942	5.5	58
128	Near-field electrospinning of light-emitting conjugated polymer nanofibers. *Nanoscale*, **2013**, 5, 11637-42	7.7	58
127	A bioartificial renal tubule device embedding human renal stem/progenitor cells. *PLoS ONE*, **2014**, 9, e87496	3.7	57
126	Optical Anisotropy in Single Light-Emitting Polymer Nanofibers. *Journal of Physical Chemistry C*, **2011**, 115, 20399-20405	3.8	55
125	Rotational dynamics of optically trapped nanofibers. *Optics Express*, **2010**, 18, 822-30	3.3	53

124	Two-photon continuous flow lithography. *Advanced Materials*, **2012**, 24, 1304-8	24	49
123	Single light-emitting polymer nanofiber field-effect transistors. *Nanoscale*, **2010**, 2, 2217-22	7.7	47
122	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
121	Near-infrared imprinted distributed feedback lasers. *Applied Physics Letters*, **2006**, 89, 201105	3.4	46
120	Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. *Macromolecular Materials and Engineering*, **2017**, 302, 1600569	3.9	43
119	Light-emitting nanocomposite CdS-polymer electrospun fibres via in situ nanoparticle generation. *Nanoscale*, **2011**, 3, 4234-9	7.7	42
118	Electrically tunable organic distributed feedback lasers embedding nonlinear optical molecules. *Advanced Materials*, **2012**, 24, OP221-5	24	41
117	Distributed feedback imprinted electrospun fiber lasers. *Advanced Materials*, **2014**, 26, 6542-7	24	39
116	Polymeric distributed feedback lasers by room-temperature nanoimprint lithography. *Applied Physics Letters*, **2006**, 89, 131109	3.4	38
115	GBr6NL: a generalized Born method for accurately reproducing solvation energy of the nonlinear Poisson-Boltzmann equation. *Journal of Chemical Physics*, **2007**, 126, 195102	3.9	38
114	Transforming colloidal CsPbBr nanocrystals with poly(maleic anhydride--1-octadecene) into stable CsPbBr perovskite emitters through intermediate heterostructures. *Chemical Science*, **2020**, 11, 3986-3995	9.4	37
113	Organic nanofibers embedding stimuli-responsive threaded molecular components. *Journal of the American Chemical Society*, **2014**, 136, 14245-54	16.4	37
112	Physically transient photonics: random versus distributed feedback lasing based on nanoimprinted DNA. *ACS Nano*, **2014**, 8, 10893-8	16.7	36
111	Polarized superradiance from delocalized exciton transitions in tetracene single crystals. *Physical Review B*, **2010**, 81,	3.3	36
110	A cold cesium atomic beam produced out of a pyramidal funnel. *Optics Communications*, **2001**, 200, 231-239	2	36
109	CdS-polymer nanocomposites and light-emitting fibers by in situ electron-beam synthesis and lithography. *Advanced Materials*, **2012**, 24, 5320-6	24	35
108	Interaction Scheme and Temperature Behavior of Energy Transfer in a Light-Emitting Inorganic-Organic Composite System. *Advanced Functional Materials*, **2008**, 18, 751-757	15.6	35
107	Controlling spontaneous surface structuring of azobenzene-containing polymers for large-scale nano-lithography of functional substrates. *Applied Physics Letters*, **2013**, 102, 093102	3.4	32

106	Full color control and white emission from conjugated polymer nanofibers. *Applied Physics Letters*, **2009**, 94, 043109	3.4	32
105	Two-Photon Induced Self-Structuring of Polymeric Films Based on Y-Shape Azobenzene Chromophore. *Journal of Physical Chemistry C*, **2011**, 115, 13566-13570	3.8	29
104	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,	3.3	28
103	A nanophotonic laser on a graph. *Nature Communications*, **2019**, 10, 226	17.4	28
102	Enhancement of light polarization from electrospun polymer fibers by room temperature nanoimprint lithography. *Nanotechnology*, **2010**, 21, 215304	3.4	27
101	Amplified spontaneous emission in quaterthiophene single crystals. *Applied Physics Letters*, **2008**, 92, 083311	3.4	27
100	Very high-quality distributed Bragg reflectors for organic lasing applications by reactive electron-beam deposition. *Optics Express*, **2006**, 14, 1951-6	3.3	27
99	Mechanisms for O2 dissociation during pulsed-laser ablation and deposition. *Applied Physics Letters*, **2001**, 78, 2402-2404	3.4	27
98	Controlled Atmosphere Electrospinning of Organic Nanofibers with Improved Light Emission and Waveguiding Properties. *Macromolecules*, **2015**, 48, 7803-7809	5.5	26
97	Conformational Evolution of Elongated Polymer Solutions Tailors the Polarization of Light-Emission from Organic Nanofibers. *Macromolecules*, **2014**, 47, 4704-4710	5.5	26
96	Multi-photon in situ synthesis and patterning of polymer-embedded nanocrystals. *Journal of Materials Chemistry*, **2012**, 22, 9787		26
95	Optical Gain in the Near Infrared by Light-Emitting Electrospun Fibers. *Advanced Functional Materials*, **2014**, 24, 5225-5231	15.6	25
94	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
93	Axial optical trapping efficiency through a dielectric interface. *Physical Review E*, **2007**, 76, 061917	2.4	25
92	Surface-enhanced Raman spectroscopy in 3D electrospun nanofiber mats coated with gold nanorods. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 1357-64	4.4	24
91	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	3.8	24
90	Soft Nanopatterning on Light-Emitting Inorganic□Organic Composites. *Advanced Functional Materials*, **2008**, 18, 2692-2698	15.6	24
89	Modal Coupling of Single Photon Emitters Within Nanofiber Waveguides. *ACS Nano*, **2016**, 10, 6125-30	16.7	24

88	Sub-ms dynamics of the instability onset of electrospinning. *Soft Matter*, **2015**, 11, 3424-31	3.6	23
87	Realization of submicrometer structures by a confocal system on azopolymer films containing photoluminescent chromophores. *Journal of Applied Physics*, **2010**, 107, 083110	2.5	23
86	Two-photon patterning of a polymer containing Y-shaped azochromophores. *Applied Physics Letters* , **2009**, 94, 011115	3.4	23
85	Generalized ellipsometry and dielectric tensor of rubrene single crystals. *Journal of Applied Physics*, **2007**, 102, 023107	2.5	21
84	Diverse Regimes of Mode Intensity Correlation in Nanofiber Random Lasers through Nanoparticle Doping. *ACS Photonics*, **2018**, 5, 1026-1033	6.3	19
83	Core-Shell Electrospun Fibers Encapsulating Chromophores or Luminescent Proteins for Microscopically Controlled Molecular Release. *Molecular Pharmaceutics*, **2016**, 13, 729-36	5.6	19
82	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
81	All-optical switching in dye-doped DNA nanofibers. *Journal of Materials Chemistry C*, **2019**, 7, 170-176	7.1	18
80	Reduction of water evaporation in polymerase chain reaction microfluidic devices based on oscillating-flow. *Biomicrofluidics*, **2010**, 4,	3.2	18
79	Optical properties of in-vitro biomineralised silica. *Scientific Reports*, **2012**, 2, 607	4.9	18
78	Polarized absorption, spontaneous and stimulated blue light emission of J-type tetraphenylbutadiene monocrystals. *ChemPhysChem*, **2010**, 11, 429-34	3.2	18
77	Polarization splitting in organic-based microcavities working in the strong coupling regime. *Organic Electronics*, **2007**, 8, 114-119	3.5	18
76	Nanoparticle-doped electrospun fiber random lasers with spatially extended light modes. *Optics Express*, **2017**, 25, 24604-24614	3.3	17
75	Hierarchical assembly of light-emitting polymer nanofibers in helical morphologies. *Applied Physics Letters*, **2009**, 95, 263301	3.4	17
74	Photocontrolled wettability changes in polymer microchannels doped with photochromic molecules. *Applied Physics Letters*, **2007**, 91, 113113	3.4	17
73	Electrospun amplified fiber optics. *ACS Applied Materials & Interfaces*, **2015**, 7, 5213-8	9.5	16
72	Electrically controlled white laser emission through liquid crystal/polymer multiphases. *Light: Science and Applications*, **2020**, 9, 19	16.7	16
71	Biosilica electrically-insulating layers by soft lithography-assisted biomineralisation with recombinant silicatein. *Advanced Materials*, **2011**, 23, 4674-8	24	16

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69	Rapid prototyping encapsulation for polymer light-emitting lasers. *Applied Physics Letters*, **2009**, 94, 123305	3.4	16
68	Multifunctional Polymer Nanofibers: UV Emission, Optical Gain, Anisotropic Wetting, and High Hydrophobicity for Next Flexible Excitation Sources. *ACS Applied Materials & Interfaces*, **2015**, 7, 21907-12	9.5	14
67	Anisotropic Conjugated Polymer Chain Conformation Tailors the Energy Migration in Nanofibers. *Journal of the American Chemical Society*, **2016**, 138, 15497-15505	16.4	14
66	Registration accuracy in multilevel soft lithography. *Nanotechnology*, **2007**, 18, 175302	3.4	14
65	A laser-cooled atom beam for nanolithography applications. *Materials Science and Engineering C*, **2003**, 23, 217-220	8.3	14
64	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	3.8	13
63	Low-threshold blue-emitting monolithic polymer vertical cavity surface-emitting lasers. *Applied Physics Letters*, **2006**, 89, 121111	3.4	13
62	Atomic lithography with barium atoms. *Applied Surface Science*, **2005**, 248, 196-199	6.7	13
61	Organic-based distributed feedback lasers by direct electron-beam lithography on conjugated polymers. *Applied Physics Letters*, **2007**, 91, 101110	3.4	12
60	Er-LiYF4 coating of Si-based substrates by pulsed laser deposition. *Surface and Coatings Technology*, **2004**, 180-181, 607-610	4.4	12
59	Low-defectiveness exfoliation of MoS nanoparticles and their embedment in hybrid light-emitting polymer nanofibers. *Nanoscale*, **2018**, 10, 21748-21754	7.7	12
58	Laser Systems and Networks with Organic Nanowires and Nanofibers. *Advanced Optical Materials*, **2019**, 7, 1900192	8.1	11
57	Enhanced emission efficiency in electrospun polyfluorene copolymer fibers. *Applied Physics Letters*, **2013**, 102, 211911	3.4	11
56	Atomic nanolithography patterning of submicron features: writing an organic self-assembled monolayer with cold, bright Cs atom beams. *Nanotechnology*, **2005**, 16, 1536-1541	3.4	11
55	Electrostatic Mechanophores in Tuneable Light-Emitting Piezopolymer Nanowires. *Advanced Materials*, **2017**, 29, 1701031	24	10
54	Nanowire-Intensified Metal-Enhanced Fluorescence in Hybrid Polymer-Plasmonic Electrospun Filaments. *Small*, **2018**, 14, e1800187	11	10
53	Soft Nanolithography by Polymer Fibers. *Advanced Functional Materials*, **2011**, 21, 1140-1145	15.6	10

52	Monolithic vertical microcavities based on tetracene single crystals. *Applied Physics Letters*, **2008**, 92, 063301	3.4	10
51	Propagation properties and self-waveguided fluorescence emission in conjugated molecular solids. *Organic Electronics*, **2006**, 7, 561-567	3.5	10
50	Circularly Polarized Laser with Chiral Nematic Cellulose Nanocrystal Cavity. *ACS Nano*, **2021**, 15, 8753-8760	10.7	10
49	Low-loss and highly polarized emission from planar polymer waveguides. *Optics Letters*, **2006**, 31, 1429-31	3	9
48	Atomic nanofabrication by laser manipulation of a neutral cesium beam. *Materials Science and Engineering C*, **2003**, 23, 1087-1091	8.3	9
47	Energy Dissipation and Asymmetric Excitation in Hybrid Waveguides for Routing and Coloring. *Journal of Physical Chemistry Letters*, **2021**, 12, 7034-7040	6.4	9
46	Heterogeneous Random Laser with Switching Activity Visualized by Replica Symmetry Breaking Maps. *ACS Photonics*, **2021**, 8, 376-383	6.3	9
45	Study of optical properties of electrospun light-emitting polymer fibers. *Superlattices and Microstructures*, **2010**, 47, 145-149	2.8	8
44	Sub-50-nm conjugated polymer dots by nanoprinting. *Small*, **2008**, 4, 1894-9	11	8
43	Laser deposition of shape-memory alloy for MEMS applications. *Applied Surface Science*, **2003**, 208-209, 518-521	6.7	8
42	Directed Functionalization Tailors the Polarized Emission and Waveguiding Properties of Anthracene-Based Molecular Crystals. *Chemistry of Materials*, **2019**, 31, 1775-1783	9.6	8
41	Enhanced Electrospinning of Active Organic Fibers by Plasma Treatment on Conjugated Polymer Solutions. *ACS Applied Materials & Interfaces*, **2020**, 12, 26320-26329	9.5	7
40	Interplay of Stimulated Emission and Fluorescence Resonance Energy Transfer in Electrospun Light-Emitting Fibers. *Journal of Physical Chemistry C*, **2018**, 122, 762-769	3.8	6
39	Advancing the Science and Technology of Electrospinning and Functional Nanofibers. *Macromolecular Materials and Engineering*, **2017**, 302, 1700237	3.9	6
38	Analysis of plume-buffer gas interaction through molecular and atomic oxygen absorption spectroscopy. *Applied Physics A: Materials Science and Processing*, **1999**, 69, S509-S513	2.6	6
37	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. *Nature Communications*, **2020**, 11, 5991	17.4	6
36	Optimization of electrospinning techniques for the realization of nanofiber plastic lasers **2016**,		5
35	Electrospun Fluorescent Nanofibers and Their Application in Optical Sensing. *Nanoscience and Technology*, **2015**, 129-155	0.6	5

34	Patterning photo-curable light-emitting organic composites by vertical and horizontal capillarity: a general route to photonic nanostructures. *Nanotechnology*, **2008**, 19, 335301	3.4	5
33	Thermal tunability of monolithic polymer microcavities. *Applied Physics Letters*, **2008**, 92, 253310	3.4	5
32	Patterning nonanethiol protected gold films by barium atoms. *Applied Physics B: Lasers and Optics*, **2004**, 79, 539-542	1.9	5
31	Pulsed laser deposition and in situ diagnostics of the process applied to shape-memory alloys. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 927-934	2.6	5
30	Unusual Red Light Emission from Nonmetallic Cu2Te Microdisk for Laser and SERS Applications. *Advanced Optical Materials*,2101976	8.1	5
29	Conformable Nanowire-in-Nanofiber Hybrids for Low-Threshold Optical Gain in the Ultraviolet. *ACS Nano*, **2020**, 14, 8093-8102	16.7	4
28	Biomineral Amorphous Lasers through Light-Scattering Surfaces Assembled by Electrospun Fiber Templates. *Laser and Photonics Reviews*, **2018**, 12, 1700224	8.3	4
27	Electrical properties of in vitro biomineralized recombinant silicatein deposited by microfluidics. *Applied Physics Letters*, **2012**, 101, 193702	3.4	4
26	Nanopatterning by atomic nanofabrication: Interaction of laser cooled atoms with surfaces. *Materials Science and Engineering C*, **2007**, 27, 1418-1422	8.3	4
25	Organic Light-Emitting Nanofibers by Solvent-Resistant Nanofluidics. *Advanced Materials*, **2008**, 20, NA-NA	14	4
24	Pulsed laser deposition and characterization of NiTi-based MEMS prototypes. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 1141-1143	2.6	4
23	Laser ablation of ceramic oxides in the presence of a RF pulsed oxygen plasma. *Surface and Coatings Technology*, **2004**, 180-181, 591-595	4.4	4
22	Near-field microscopy investigation of laser-deposited coated conductors. *Applied Surface Science*, **2003**, 208-209, 599-603	6.7	4
21	Assembly of Pt Nanoparticles on Graphitized Carbon Nanofibers as Hierarchically Structured Electrodes. *ACS Applied Nano Materials*, **2020**, 3, 9880-9888	5.6	4
20	Dye Stabilization and Wavelength Tunability in Lasing Fibers Based on DNA. *Advanced Optical Materials*, **2020**, 8, 2001039	8.1	4
19	Perspectives: Nanofibers and nanowires for disordered photonics. *APL Materials*, **2017**, 5, 035301	5.7	3
18	Electron-beam nanopatterning and spectral modulation of organic molecular light-emitting single crystals. *Langmuir*, **2014**, 30, 1643-9	4	2
17	Polymer nanofibers as novel light-emitting sources and lasing material **2013**,		2

16	Imprinting strategies for 100 nm lithography on polyfluorene and poly(phenylenevinylene) derivatives and their blends. *Materials Science and Engineering C*, **2007**, 27, 1428-1433	8.3	2
15	Resist-assisted atom lithography with group III elements. *Applied Physics B: Lasers and Optics*, **2006**, 85, 487-491	1.9	2
14	One-dimensional bichromatic standing-wave cooling of cesium atoms. *Journal of Optics B: Quantum and Semiclassical Optics*, **2003**, 5, S29-S37		2
13	Absolute luminescence efficiency and photonic band-gap effect of conjugated polymers with top-deposited distributed Bragg reflectors. *Chemical Physics Letters*, **2005**, 411, 316-320	2.5	2
12	Naturally Degradable Photonic Devices with Transient Function by Heterostructured Waxy-Sublimating and Water-Soluble Materials. *Advanced Science*, **2020**, 7, 2001594	13.6	2
11	Alq3 coated silicon nanomembranes for cavity optomechanics **2016**,		1
10	Control of photon transport properties in nanocomposite nanowires **2016**,		1
9	Molecular Packing versus Strength and Effective Mass of the Emitting Exciton of 1,1,4,4-Tetraphenyl-1,3-butadiene. *Journal of Physical Chemistry C*, **2014**, 118, 8588-8594	3.8	1
8	Longitudinal coherence of organic-based microcavity lasers. *Optics Express*, **2008**, 16, 10384-9	3.3	1
7	LASER DEPOSITION OF YBCO FILMS ONTO NiBASED SUBSTRATES. *International Journal of Modern Physics B*, **2003**, 17, 745-750	1.1	1
6	Cryptographic Strain-Dependent Light Pattern Generators. *Advanced Materials Technologies*,2101129	6.8	1
5	WO Nanowires Enhance Molecular Alignment and Optical Anisotropy in Electrospun Nanocomposite Fibers: Implications for Hybrid Light-Emitting Systems.. *ACS Applied Nano Materials*, **2022**, 5, 3654-3666	5.6	1
4	In Situ Thermal, Photon, and Electron-Beam Synthesis of Polymer Nanocomposites **2014**, 145-178		
3	Hybrid planar microresonators with organic and InGaAs active media. *Optics Express*, **2010**, 18, 11650-6	3.3	
2	Tuneable optical gain and broadband lasing driven in electrospun polymer fibers by high dye concentration. *Journal of Materials Chemistry C*, **2022**, 10, 2042-2048	7.1	
1	Photoactivated Refractive Index Anisotropy in Fluorescent Thiophene Derivatives. *Journal of Physical Chemistry C*, **2020**, 124, 25465-25472	3.8	