Dario Pisignano

List of Publications by Year in Descending Order

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	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	
295	Cryptographic Strain-Dependent Light Pattern Generators (Adv. Mater. Technol. 1/2022). *Advanced Materials Technologies*, **2022**, 7, 2270002	6.8	
294	Capturing Free-Radical Polymerization by Synergetic Calculations and Topological Reactive Molecular Dynamics.. *Macromolecules*, **2022**, 55, 1474-1486	5.5	1
293	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
292	Evidence of negative thermal expansion in supercooled tantala. *Journal of Non-Crystalline Solids*, **2021**, 577, 121308	3.9	
291	Large-Area Oxidized Phosphorene Nanoflakes Obtained by Electrospray for Energy-Harvesting Applications. *ACS Applied Nano Materials*, **2021**, 4, 3476-3485	5.6	3
290	Lattice Boltzmann multicomponent model for direct-writing printing. *Physics of Fluids*, **2021**, 33, 042103	4.4	3
289	Circularly Polarized Laser with Chiral Nematic Cellulose Nanocrystal Cavity. *ACS Nano*, **2021**, 15, 8753-8760	16.7	10
288	Three-Dimensional Printable Conductive Semi-Interpenetrating Polymer Network Hydrogel for Neural Tissue Applications. *Biomacromolecules*, **2021**, 22, 3084-3098	6.9	15
287	Melt electrowriting of poly(vinylidene fluoride-co-trifluoroethylene). *Polymer International*, **2021**, 70, 1725	3.3	2
286	Energy Dissipation and Asymmetric Excitation in Hybrid Waveguides for Routing and Coloring. *Journal of Physical Chemistry Letters*, **2021**, 12, 7034-7040	6.4	9
285	On the evaluation of output voltages for quantifying the performance of pyroelectric energy harvesters. *Nano Energy*, **2021**, 86, 106045	17.1	7
284	Heterogeneous Random Laser with Switching Activity Visualized by Replica Symmetry Breaking Maps. *ACS Photonics*, **2021**, 8, 376-383	6.3	9
283	Conformable Nanowire-in-Nanofiber Hybrids for Low-Threshold Optical Gain in the Ultraviolet. *ACS Nano*, **2020**, 14, 8093-8102	16.7	4
282	Enhanced Electrospinning of Active Organic Fibers by Plasma Treatment on Conjugated Polymer Solutions. *ACS Applied Materials & Interfaces*, **2020**, 12, 26320-26329	9.5	7
281	Maneuvering the Migration and Differentiation of Stem Cells with Electrospun Nanofibers. *Advanced Science*, **2020**, 7, 2000735	13.6	32
280	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

279	From nanocomposites to nanostructured materials **2020**, 3-39		1
278	Enhanced Piezoelectricity of Electrospun Polyvinylidene Fluoride Fibers for Energy Harvesting. *ACS Applied Materials & Interfaces*, **2020**, 12, 13575-13583	9.5	72
277	Electrically controlled white laser emission through liquid crystal/polymer multiphases. *Light: Science and Applications*, **2020**, 9, 19	16.7	16
276	The Secretome Derived From Mesenchymal Stromal Cells Cultured in a Xeno-Free Medium Promotes Human Cartilage Recovery. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 90	5.8	11
275	Synthesis, crystal structure, polymorphism and microscopic luminescence properties of anthracene derivative compounds. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2020**, 76, 427-435	1.8	4
274	When nanocellulose meets diffraction grating: freestanding photonic paper with programmable optical coupling. *Materials Horizons*, **2020**, 7, 511-519	14.4	19
273	Non-local cooperative atomic motions that govern dissipation in amorphous tantala unveiled by dynamical mechanical spectroscopy. *Acta Materialia*, **2020**, 201, 1-6	8.4	0
272	Advances in Medical Applications of Additive Manufacturing. *Engineering*, **2020**, 6, 1222-1231	9.7	24
271	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
270	Photoactivated Refractive Index Anisotropy in Fluorescent Thiophene Derivatives. *Journal of Physical Chemistry C*, **2020**, 124, 25465-25472	3.8	
269	Assembly of Pt Nanoparticles on Graphitized Carbon Nanofibers as Hierarchically Structured Electrodes. *ACS Applied Nano Materials*, **2020**, 3, 9880-9888	5.6	4
268	Naturally Degradable Photonic Devices with Transient Function by Heterostructured Waxy-Sublimating and Water-Soluble Materials. *Advanced Science*, **2020**, 7, 2001594	13.6	2
267	Dye Stabilization and Wavelength Tunability in Lasing Fibers Based on DNA. *Advanced Optical Materials*, **2020**, 8, 2001039	8.1	4
266	Models of polymer solutions in electrified jets and solution blowing. *Reviews of Modern Physics*, **2020**, 92,	40.5	28
265	Printing Flowers? Custom-Tailored Photonic Cellulose Films with Engineered Surface Topography. *Matter*, **2019**, 1, 988-1000	12.7	23
264	Electrospun Filaments Embedding Bioactive Glass Particles with Ion Release and Enhanced Mineralization. *Nanomaterials*, **2019**, 9,	5.4	10
263	All-optical switching in dye-doped DNA nanofibers. *Journal of Materials Chemistry C*, **2019**, 7, 170-176	7.1	18
262	Laser Systems and Networks with Organic Nanowires and Nanofibers. *Advanced Optical Materials*, **2019**, 7, 1900192	8.1	11

261	Quasi-3D morphology and modulation of focal adhesions of human adult stem cells through combinatorial concave elastomeric surfaces with varied stiffness. *Soft Matter*, **2019**, 15, 5154-5162	3.6	3
260	Tailoring optical properties and stimulated emission in nanostructured polythiophene. *Scientific Reports*, **2019**, 9, 7370	4.9	8
259	Hybrid Nanocomposites for 3D Optics: Using Interpolymer Complexes with Cellulose Nanocrystals. *ACS Applied Materials & Interfaces*, **2019**, 11, 19324-19330	9.5	4
258	The Heterogeneity of Renal Stem Cells and Their Interaction with Bio- and Nano-materials. *Advances in Experimental Medicine and Biology*, **2019**, 1123, 195-216	3.6	4
257	In silico broadband mechanical spectroscopy of amorphous tantala. *Physical Review Research*, **2019**, 1,	3.9	6
256	Directed Functionalization Tailors the Polarized Emission and Waveguiding Properties of Anthracene-Based Molecular Crystals. *Chemistry of Materials*, **2019**, 31, 1775-1783	9.6	8
255	Lineage-Specific Commitment of Stem Cells with Organic and Graphene Oxide Functionalized Nanofibers. *Advanced Functional Materials*, **2019**, 29, 1806694	15.6	8
254	Additive Manufacturing: Applications and Directions in Photonics and Optoelectronics. *Advanced Optical Materials*, **2019**, 7, 1800419	8.1	75
253	A nanophotonic laser on a graph. *Nature Communications*, **2019**, 10, 226	17.4	28
252	Nanowire-Intensified Metal-Enhanced Fluorescence in Hybrid Polymer-Plasmonic Electrospun Filaments. *Small*, **2018**, 14, e1800187	11	10
251	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	7.1	16
250	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
249	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
248	Diverse Regimes of Mode Intensity Correlation in Nanofiber Random Lasers through Nanoparticle Doping. *ACS Photonics*, **2018**, 5, 1026-1033	6.3	19
247	Entropic lattice Boltzmann model for charged leaky dielectric multiphase fluids in electrified jets. *Physical Review E*, **2018**, 97, 033308	2.4	16
246	Biomineral Amorphous Lasers through Light-Scattering Surfaces Assembled by Electrospun Fiber Templates. *Laser and Photonics Reviews*, **2018**, 12, 1700224	8.3	4
245	Polymer nanogenerators: Opportunities and challenges for large-scale applications. *Journal of Applied Polymer Science*, **2018**, 135, 45674	2.9	53
244	Stacked electrospun polymer nanofiber heterostructures with tailored stimulated emission. *RSC Advances*, **2018**, 8, 24175-24181	3.7	3

243	Aligned Nanofiber Topographies Enhance the Differentiation of Adult Renal Stem Cells into Glomerular Podocytes. *Advanced Engineering Materials*, **2018**, 20, 1800003	3.5	5
242	Low-defectiveness exfoliation of MoS nanoparticles and their embedment in hybrid light-emitting polymer nanofibers. *Nanoscale*, **2018**, 10, 21748-21754	7.7	12
241	Highly sticky surfaces made by electrospun polymer nanofibers. *RSC Advances*, **2017**, 7, 5836-5842	3.7	20
240	Dry Transient Electronic Systems by Use of Materials that Sublime. *Advanced Functional Materials*, **2017**, 27, 1606008	15.6	27
239	Perspectives: Nanofibers and nanowires for disordered photonics. *APL Materials*, **2017**, 5, 035301	5.7	3
238	Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. *Macromolecular Materials and Engineering*, **2017**, 302, 1600569	3.9	43
237	Electrostatic Mechanophores in Tuneable Light-Emitting Piezopolymer Nanowires. *Advanced Materials*, **2017**, 29, 1701031	24	10
236	Neuregulin 1 functionalization of organic fibers for Schwann cell guidance. *Nanotechnology*, **2017**, 28, 155303	3.4	10
235	Secondary Metabolite Production from Industrially Relevant Bacteria is Enhanced by Organic Nanofibers. *Biotechnology Journal*, **2017**, 12, 1700313	5.6	3
234	Advancing the Science and Technology of Electrospinning and Functional Nanofibers. *Macromolecular Materials and Engineering*, **2017**, 302, 1700237	3.9	6
233	Effects of orthogonal rotating electric fields on electrospinning process. *Physics of Fluids*, **2017**, 29, 082003	4.1	13
232	Effects of nanoparticles on the dynamic morphology of electrified jets. *Europhysics Letters*, **2017**, 119, 44001	1.6	1
231	Nanoparticle-doped electrospun fiber random lasers with spatially extended light modes. *Optics Express*, **2017**, 25, 24604-24614	3.3	17
230	Shear Piezoelectricity in Poly(vinylidenefluoride-co-trifluoroethylene): Full Piezotensor Coefficients by Molecular Modeling, Biaxial Transverse Response, and Use in Suspended Energy-Harvesting Nanostructures. *Advanced Materials*, **2016**, 28, 7633-9	24	19
229	Alq3 coated silicon nanomembranes for cavity optomechanics **2016**,		1
228	Threading through Macrocycles Enhances the Performance of Carbon Nanotubes as Polymer Fillers. *ACS Nano*, **2016**, 10, 8012-8	16.7	23
227	Anisotropic Conjugated Polymer Chain Conformation Tailors the Energy Migration in Nanofibers. *Journal of the American Chemical Society*, **2016**, 138, 15497-15505	16.4	14
226	Core-Shell Electrospun Fibers Encapsulating Chromophores or Luminescent Proteins for Microscopically Controlled Molecular Release. *Molecular Pharmaceutics*, **2016**, 13, 729-36	5.6	19

225	Three-Dimensional Model for Electrospinning Processes in Controlled Gas Counterflow. *Journal of Physical Chemistry A*, **2016**, 120, 4884-92	2.8	10
224	Surface-enhanced Raman spectroscopy in 3D electrospun nanofiber mats coated with gold nanorods. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 1357-64	4.4	24
223	Control of photon transport properties in nanocomposite nanowires **2016**,		1
222	Optimization of electrospinning techniques for the realization of nanofiber plastic lasers **2016**,		5
221	Bioactive Nanofiber Matrices Functionalized with Fibronectin-Mimetic Peptides Driving the Alignment and Tubular Commitment of Adult Renal Stem Cells. *Macromolecular Chemistry and Physics*, **2016**, 217, 199-212	2.6	6
220	Modal Coupling of Single Photon Emitters Within Nanofiber Waveguides. *ACS Nano*, **2016**, 10, 6125-30	16.7	24
219	Micropatterning control of tubular commitment in human adult renal stem cells. *Biomaterials*, **2016** , 94, 57-69	15.6	9
218	Enhancement of radiative processes in nanofibers with embedded plasmonic nanoparticles. *Optics Letters*, **2016**, 41, 1632-5	3	2
217	Dynamic mesh refinement for discrete models of jet electro-hydrodynamics. *Journal of Computational Science*, **2016**, 17, 325-333	3.4	10
216	Nonlinear Langevin model for the early-stage dynamics of electrospinning jets. *Molecular Physics*, **2015**, 113, 2435-2441	1.7	9
215	Sub-ms dynamics of the instability onset of electrospinning. *Soft Matter*, **2015**, 11, 3424-31	3.6	23
214	Electrospun amplified fiber optics. *ACS Applied Materials & Interfaces*, **2015**, 7, 5213-8	9.5	16
213	Computational homogenization of fibrous piezoelectric materials. *Computational Mechanics*, **2015**, 55, 983-998	4	18
212	Metal-Enhanced Near-Infrared Fluorescence by Micropatterned Gold Nanocages. *ACS Nano*, **2015**, 9, 10047-54	16.7	88
211	Suppression of Low-Frequency Electronic Noise in Polymer Nanowire Field-Effect Transistors. *Nano Letters*, **2015**, 15, 7245-52	11.5	11
210	Controlled Atmosphere Electrospinning of Organic Nanofibers with Improved Light Emission and Waveguiding Properties. *Macromolecules*, **2015**, 48, 7803-7809	5.5	26
209	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
208	JETSPIN: A specific-purpose open-source software for simulations of nanofiber electrospinning. *Computer Physics Communications*, **2015**, 197, 227-238	4.2	16

207	Different regimes of the uniaxial elongation of electrically charged viscoelastic jets due to dissipative air drag. *Mechanics Research Communications*, **2015**, 69, 97-102	2.2	10
206	PC12 neuron-like cell response to electrospun poly(3-hydroxybutyrate) substrates. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 151-61	4.4	28
205	Active polymer nanofibers for photonics, electronics, energy generation and micromechanics. *Progress in Polymer Science*, **2015**, 43, 48-95	29.6	135
204	Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometer-Scale Spatial Resolution. *Small*, **2015**, 11, 6417-24	11	17
203	High sensitivity noise measurements: Circuits, techniques and applications **2015**,		1
202	Nanofibers: Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometer-Scale Spatial Resolution (Small 48/2015). *Small*, **2015**, 11, 6416	11	
201	A methodology to orient carbon nanotubes in a thermosetting matrix. *Composites Science and Technology*, **2014**, 96, 47-55	8.6	29
200	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
199	The sponge silicatein-interacting protein silintaphin-2 blocks calcite formation of calcareous sponge spicules at the vaterite stage. *RSC Advances*, **2014**, 4, 2577-2585	3.7	19
198	Physically transient photonics: random versus distributed feedback lasing based on nanoimprinted DNA. *ACS Nano*, **2014**, 8, 10893-8	16.7	36
197	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
196	Conformational Evolution of Elongated Polymer Solutions Tailors the Polarization of Light-Emission from Organic Nanofibers. *Macromolecules*, **2014**, 47, 4704-4710	5.5	26
195	Optical Gain in the Near Infrared by Light-Emitting Electrospun Fibers. *Advanced Functional Materials*, **2014**, 24, 5225-5231	15.6	25
194	Effects of non-linear rheology on electrospinning process: A model study. *Mechanics Research Communications*, **2014**, 61, 41-46	2.2	16
193	Electron-beam nanopatterning and spectral modulation of organic molecular light-emitting single crystals. *Langmuir*, **2014**, 30, 1643-9	4	2
192	Distributed feedback imprinted electrospun fiber lasers. *Advanced Materials*, **2014**, 26, 6542-7	24	39
191	Organic nanofibers embedding stimuli-responsive threaded molecular components. *Journal of the American Chemical Society*, **2014**, 136, 14245-54	16.4	37
190	Combined nano- and micro-scale topographic cues for engineered vascular constructs by electrospinning and imprinted micro-patterns. *Small*, **2014**, 10, 2439-50	11	48

189	In Situ Thermal, Photon, and Electron-Beam Synthesis of Polymer Nanocomposites **2014**, 145-178		
188	Carbon nanotube alignment in a thermosetting resin **2014**,		1
187	Polymer Nanowires: Cooperativity in the Enhanced Piezoelectric Response of Polymer Nanowires (Adv. Mater. 45/2014). *Advanced Materials*, **2014**, 26, 7573-7573	24	
186	Lasers: Distributed Feedback Imprinted Electrospun Fiber Lasers (Adv. Mater. 38/2014). *Advanced Materials*, **2014**, 26, 6660-6660	24	1
185	Ultrathin Fibers from Electrospinning Experiments under Driven Fast-Oscillating Perturbations. *Physical Review Applied*, **2014**, 2,	4.3	9
184	Cooperativity in the enhanced piezoelectric response of polymer nanowires. *Advanced Materials*, **2014**, 26, 7574-80	24	68
183	Flexible organic field-effect transistors based on electrospun conjugated polymer nanofibers with high bending stability. *Organic Electronics*, **2014**, 15, 1056-1061	3.5	16
182	A bioartificial renal tubule device embedding human renal stem/progenitor cells. *PLoS ONE*, **2014**, 9, e87496	3.7	57
181	Bright Light Emission and Waveguiding in Conjugated Polymer Nanofibers Electrospun from Organic Salt Added Solutions. *Macromolecules*, **2013**, 46, 5935-5942	5.5	58
180	Light-Emitting Electrospun Nanofibers for Nanophotonics and Optoelectronics. *Macromolecular Materials and Engineering*, **2013**, 298, 487-503	3.9	94
179	Microvascular endothelial cell spreading and proliferation on nanofibrous scaffolds by polymer blends with enhanced wettability. *Soft Matter*, **2013**, 9, 5529	3.6	32
178	Local mechanical properties of electrospun fibers correlate to their internal nanostructure. *Nano Letters*, **2013**, 13, 5056-62	11.5	79
177	Metazoan circadian rhythm: toward an understanding of a light-based zeitgeber in sponges. *Integrative and Comparative Biology*, **2013**, 53, 103-17	2.8	6
176	Near-field electrospinning of light-emitting conjugated polymer nanofibers. *Nanoscale*, **2013**, 5, 11637-42	7.7	58
175	Rolling particle lithography by soft polymer microparticles. *Soft Matter*, **2013**, 9, 2206	3.6	9
174	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
173	Industrial Upscaling of Electrospinning and Applications of Polymer Nanofibers: A Review. *Macromolecular Materials and Engineering*, **2013**, 298, 504-520	3.9	619
172	Microdroplet-based multiplex PCR on chip to detect foodborne bacteria producing biogenic amines. *Food Microbiology*, **2013**, 35, 10-4	6	17

171	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidenefluoride-co-trifluoroethylene). *Nature Communications*, **2013**, 4, 1633	17.4	821
170	Silicateins--a novel paradigm in bioinorganic chemistry: enzymatic synthesis of inorganic polymeric silica. *Chemistry - A European Journal*, **2013**, 19, 5790-804	4.8	55
169	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
168	Enhanced emission efficiency in electrospun polyfluorene copolymer fibers. *Applied Physics Letters*, **2013**, 102, 211911	3.4	11
167	Easy monitoring of velocity fields in microfluidic devices using spatiotemporal image correlation spectroscopy. *Analytical Chemistry*, **2013**, 85, 8080-4	7.8	8
166	Composite electrospun nanofibers for influencing stem cell fate. *Methods in Molecular Biology*, **2013**, 1058, 25-40	1.4	5
165	Polymer nanofibers as novel light-emitting sources and lasing material **2013**,		2
164	Two-photon continuous flow lithography. *Advanced Materials*, **2012**, 24, 1304-8	24	49
163	Microfluidics: Two-Photon Continuous Flow Lithography (Adv. Mater. 10/2012). *Advanced Materials*, **2012**, 24, 1303-1303	24	1
162	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
161	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
160	Optically controlled liquid flow in initially prohibited elastomeric nanocomposite micro-paths. *RSC Advances*, **2012**, 2, 9543	3.7	14
159	Interplay between shape and roughness in early-stage microcapillary imbibition. *Langmuir*, **2012**, 28, 2596-603	4	32
158	Strelitzia reginae leaf as a natural template for anisotropic wetting and superhydrophobicity. *Langmuir*, **2012**, 28, 5312-7	4	70
157	Nanocomposite Nanostructures: CdSe/Polymer Nanocomposites and Light-Emitting Fibers by In Situ Electron-Beam Synthesis and Lithography (Adv. Mater. 39/2012). *Advanced Materials*, **2012**, 24, 5319-5319	24	
156	Multi-photon in situ synthesis and patterning of polymer-embedded nanocrystals. *Journal of Materials Chemistry*, **2012**, 22, 9787		26
155	Enhanced charge-carrier mobility in polymer nanofibers realized by solvent-resistant soft nanolithography. *Journal of Materials Chemistry*, **2012**, 22, 18051		15
154	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

153	Electrically tunable organic distributed feedback lasers embedding nonlinear optical molecules. *Advanced Materials*, **2012**, 24, OP221-5	24	41
152	CdS-polymer nanocomposites and light-emitting fibers by in situ electron-beam synthesis and lithography. *Advanced Materials*, **2012**, 24, 5320-6	24	35
151	Optical properties of in-vitro biomineralised silica. *Scientific Reports*, **2012**, 2, 607	4.9	18
150	Effect of finite terms on the truncation error of Mie series. *Optics Letters*, **2012**, 37, 2418-20	3	18
149	Reversible wettability of electron-beam deposited indium-tin-oxide driven by ns-UV irradiation. *Applied Physics Letters*, **2012**, 100, 151607	3.4	5
148	Electrical properties of in vitro biomineralized recombinant silicatein deposited by microfluidics. *Applied Physics Letters*, **2012**, 101, 193702	3.4	4
147	Nanotopographic control of neuronal polarity. *Nano Letters*, **2011**, 11, 505-11	11.5	109
146	Rapid nested-PCR for tyrosinase gene detection on chip. *Biosensors and Bioelectronics*, **2011**, 26, 2711-5	11.8	17
145	Soft Nanolithography by Polymer Fibers. *Advanced Functional Materials*, **2011**, 21, 1140-1145	15.6	10
144	Biosilica electrically-insulating layers by soft lithography-assisted biomineralisation with recombinant silicatein. *Advanced Materials*, **2011**, 23, 4674-8	24	16
143	Light-emitting nanocomposite CdS-polymer electrospun fibres via in situ nanoparticle generation. *Nanoscale*, **2011**, 3, 4234-9	7.7	42
142	Optical Anisotropy in Single Light-Emitting Polymer Nanofibers. *Journal of Physical Chemistry C*, **2011**, 115, 20399-20405	3.8	55
141	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
140	Nanostructured, highly aligned poly(hydroxy butyrate) electrospun fibers for differentiation of skeletal and cardiac muscle cells. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 3597-600	0.9	2
139	An electrospun fiber phototransistor by the conjugated polymer poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylene-vinylene]. *Applied Physics Letters*, **2011**, 98, 023307	3.4	14
138	Evagination of cells controls bio-silica formation and maturation during spicule formation in sponges. *PLoS ONE*, **2011**, 6, e20523	3.7	20
137	Osteoinduction of human mesenchymal stem cells by bioactive composite scaffolds without supplemental osteogenic growth factors. *PLoS ONE*, **2011**, 6, e26211	3.7	154
136	A cryptochrome-based photosensory system in the siliceous sponge Suberites domuncula (Demospongiae). *FEBS Journal*, **2010**, 277, 1182-201	5.7	45

135	Polarized superradiance from delocalized exciton transitions in tetracene single crystals. *Physical Review B*, **2010**, 81,	3.3	36
134	Realization of submicrometer structures by a confocal system on azopolymer films containing photoluminescent chromophores. *Journal of Applied Physics*, **2010**, 107, 083110	2.5	23
133	Reduction of water evaporation in polymerase chain reaction microfluidic devices based on oscillating-flow. *Biomicrofluidics*, **2010**, 4,	3.2	18
132	Enhancement of light polarization from electrospun polymer fibers by room temperature nanoimprint lithography. *Nanotechnology*, **2010**, 21, 215304	3.4	27
131	Hybrid planar microresonators with organic and InGaAs active media. *Optics Express*, **2010**, 18, 11650-6	3.3	
130	Rotational dynamics of optically trapped nanofibers. *Optics Express*, **2010**, 18, 822-30	3.3	53
129	Collagen-functionalised electrospun polymer fibers for bioengineering applications. *Soft Matter*, **2010**, 6, 1668	3.6	48
128	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
127	Single light-emitting polymer nanofiber field-effect transistors. *Nanoscale*, **2010**, 2, 2217-22	7.7	47
126	Polarized absorption, spontaneous and stimulated blue light emission of J-type tetraphenylbutadiene monocrystals. *ChemPhysChem*, **2010**, 11, 429-34	3.2	18
125	Flashing light signaling circuit in sponges: endogenous light generation after tissue ablation in Suberites domuncula. *Journal of Cellular Biochemistry*, **2010**, 111, 1377-89	4.7	20
124	Morphology of Sponge Spicules: Silicatein a Structural Protein for Bio-Silica Formation. *Advanced Engineering Materials*, **2010**, 12, B422-B437	3.5	25
123	Study of optical properties of electrospun light-emitting polymer fibers. *Superlattices and Microstructures*, **2010**, 47, 145-149	2.8	8
122	Neuronal polarity selection by topography-induced focal adhesion control. *Biomaterials*, **2010**, 31, 4682-94	7.6	100
121	Nanoparticle image velocimetry at topologically structured surfaces. *Biomicrofluidics*, **2009**, 3, 44111	3.2	8
120	Corner liquid imbibition during capillary penetration in lithographically made microchannels. *Applied Physics Letters*, **2009**, 94, 171901	3.4	10
119	Hierarchical assembly of light-emitting polymer nanofibers in helical morphologies. *Applied Physics Letters*, **2009**, 95, 263301	3.4	17
118	Two-photon patterning of a polymer containing Y-shaped azochromophores. *Applied Physics Letters* , **2009**, 94, 011115	3.4	23

117	Luciferase a light source for the silica-based optical waveguides (spicules) in the demosponge Suberites domuncula. *Cellular and Molecular Life Sciences*, **2009**, 66, 537-52	10.3	40
116	Laser emission from electrospun polymer nanofibers. *Small*, **2009**, 5, 562-6	11	150
115	Electrospun light-emitting nanofibers as excitation source in microfluidic devices. *Lab on A Chip*, **2009**, 9, 2851-6	7.2	60
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