Laura I Clarke

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46 papers	2,684 citations	24 h-index	47 g-index
47 ext. papers	2,822 ext. citations	6 avg, IF	4.75 L-index

#	Paper	IF	Citations
46	Tracking the complete degradation lifecycle of poly(ethyl cyanoacrylate): from induced photoluminescence to nitrogen-doped nano-graphene precursor residue. *Polymer Degradation and Stability*, **2021**, 109772	4.7	1
45	Increasing ionic conductivity within thermoplastics commercial additives results in a dramatic decrease in fiber diameter from melt electrospinning. *Soft Matter*, **2021**, 17, 9264-9279	3.6	1
44	Nanoparticle-based photothermal heating to drive chemical reactions within a solid: using inhomogeneous polymer degradation to manipulate mechanical properties and segregate carbonaceous by-products. *Nanoscale*, **2020**, 12, 904-923	7.7	1
43	Photothermally-driven thermo-oxidative degradation of low density polyethylene: heterogeneous heating plus a complex reaction leads to homogeneous chemistry. *Nanotechnology*, **2019**, 30, 475706	3.4	5
42	Facile measurement of surface heat loss from polymer thin films via fluorescence thermometry. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 643-652	2.6	4
41	In situ curing of liquid epoxy via gold-nanoparticle mediated photothermal heating. *Nanotechnology*, **2017**, 28, 065601	3.4	15
40	Nanoscale steady-state temperature gradients within polymer nanocomposites undergoing continuous-wave photothermal heating from gold nanorods. *Nanoscale*, **2017**, 9, 11605-11618	7.7	24
39	Effect of constrained annealing on the mechanical properties of electrospun poly(ethylene oxide) webs containing multiwalled carbon nanotubes. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 787-796	2.6	14
38	Enhanced Crystallinity of Polymer Nanofibers without Loss of Nanofibrous Morphology via Heterogeneous Photothermal Annealing. *Macromolecules*, **2016**, 49, 9484-9492	5.5	20
37	Control of the electric field–polymer solution interaction by utilizing ultra-conductive fluids. *Polymer*, **2014**, 55, 6390-6398	3.9	12
36	Spatial temperature mapping within polymer nanocomposites undergoing ultrafast photothermal heating via gold nanorods. *Nanoscale*, **2014**, 6, 15236-47	7.7	32
35	Blending with Non-responsive Polymers to Incorporate Nanoparticles into Shape-Memory Materials and Enable Photothermal Heating: The Effects of Heterogeneous Temperature Distribution. *Macromolecular Chemistry and Physics*, **2014**, 215, 2345-2356	2.6	12
34	Unconfined, melt edge electrospinning from multiple, spontaneous, self-organized polymer jets. *Materials Research Express*, **2014**, 1, 045304	1.7	12
33	Anisotropic Thermal Processing of Polymer Nanocomposites via the Photothermal Effect of Gold Nanorods. *Particle and Particle Systems Characterization*, **2013**, 30, 193-202	3.1	32
32	Maximizing Spontaneous Jet Density and Nanofiber Quality in Unconfined Electrospinning: The Role of Interjet Interactions. *Macromolecules*, **2013**, 46, 7352-7362	5.5	19
31	Thermal Annealing of Polymer Nanocomposites via Photothermal Heating: Effects on Crystallinity and Spherulite Morphology. *Macromolecules*, **2013**, 46, 8596-8607	5.5	36
30	Metal Nanoparticles Acting as Light-Activated Heating Elements within Composite Materials. *Advanced Functional Materials*, **2012**, 22, 5259-5270	15.6	58

29	Effect of Solution Parameters on Spontaneous Jet Formation and Throughput in Edge Electrospinning from a Fluid-Filled Bowl. *Macromolecules*, **2012**, 45, 6527-6537	5.5	32
28	Edge electrospinning for high throughput production of quality nanofibers. *Nanotechnology*, **2011**, 22, 345301	3.4	107
27	Embedded metal nanoparticles as localized heat sources: An alternative processing approach for complex polymeric materials. *Polymer*, **2011**, 52, 1674-1685	3.9	70
26	Morphological, mechanical, and electrical properties as a function of thermal bonding in electrospun nanocomposites. *Polymer*, **2011**, 52, 3183-3189	3.9	24
25	Finite-size effects in nanocomposite thin films and fibers. *Physical Review E*, **2011**, 84, 021126	2.4	8
24	Investigating the Molecular Origins of Responsiveness in Functional Silicone Elastomer Networks. *Macromolecules*, **2010**, 43, 5043-5051	5.5	11
23	Application of low-frequency alternating current electric fields via interdigitated electrodes: effects on cellular viability, cytoplasmic calcium, and osteogenic differentiation of human adipose-derived stem cells. *Tissue Engineering - Part C: Methods*, **2010**, 16, 1377-86	2.9	85
22	Unconfined fluid electrospun into high quality nanofibers from a plate edge. *Polymer*, **2010**, 51, 4928-4936	3.9	106
21	Nanofibrous composites for tissue engineering applications. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2009**, 1, 369-90	9.2	67
20	Growth Dynamics and Morphology of Oleic Acid Vapor-Deposited on a Silica Surface *Journal of Physical Chemistry C*, **2009**, 113, 2141-2148	3.8	3
19	Fabrication and characterization of electrospun chitosan nanofibers formed via templating with polyethylene oxide. *Biomacromolecules*, **2008**, 9, 2523-9	6.9	106
18	Structure of submonolayer oleic acid coverages on inorganic aerosol particles: evidence of island formation. *Physical Chemistry Chemical Physics*, **2008**, 10, 3156-61	3.6	38
17	Characterization of Electrical and Mechanical Properties for Coaxial Nanofibers with Poly(ethylene oxide) (PEO) Core and Multiwalled Carbon Nanotube/PEO Sheath. *Macromolecules*, **2008**, 41, 2509-2513	5.5	39
16	Dynamics within alkylsiloxane self-assembled monolayers studied by sensitive dielectric spectroscopy. *ACS Nano*, **2008**, 2, 2392-400	16.7	17
15	Percolation in nanocomposites with complex geometries: Experimental and Monte Carlo simulation studies. *Physical Review B*, **2008**, 78,	3.3	6
14	Development, optimization, and characterization of electrospun poly(lactic acid) nanofibers containing multi-walled carbon nanotubes. *Journal of Applied Polymer Science*, **2007**, 105, 1668-1678	2.9	86
13	Morphological, Electrical, and Mechanical Characterization of Electrospun Nanofiber Mats Containing Multiwalled Carbon Nanotubes. *Macromolecules*, **2007**, 40, 997-1003	5.5	136
12	Characterization of electrospun nanocomposite scaffolds and biocompatibility with adipose-derived human mesenchymal stem cells. *International Journal of Nanomedicine*, **2007**, 2, 253-63	7.3	77

11	Dipolar rotor-rotor interactions in a difluorobenzene molecular rotor crystal. *Physical Review B*, **2006**, 74,	3.3	67
10	Dielectric response of a dipolar molecular rotor crystal. *Physical Review B*, **2005**, 72,	3.3	85
9	Artificial molecular rotors. *Chemical Reviews*, **2005**, 105, 1281-376	68.1	1023
8	Background charge fluctuations and the transport properties of biopolymer-gold nanoparticle complexes. *Journal of Applied Physics*, **2002**, 92, 4513-4517	2.5	19
7	The dielectric response of chloromethylsilyl and dichloromethylsilyl dipolar rotors on fused silica surfaces. *Nanotechnology*, **2002**, 13, 533-540	3.4	62
6	The use of biopolymer templates to fabricate low-dimensional gold particle structures. *Superlattices and Microstructures*, **2000**, 27, 489-493	2.8	9
5	Fabrication and electrical transport characteristics of low-dimensional nanoparticle arrays organized by biomolecular scaffolds. *Microelectronic Engineering*, **1999**, 47, 55-57	2.5	16
4	Nanoscale Patterns of Metal Nanoparticles Chemically-Assembled on Biomolecular Scaffolds: Assembly, Stability and Electron Transport Properties. *Materials Research Society Symposia Proceedings*, **1999**, 582, 26		
3	Room-temperature Coulomb-blockade-dominated transport in gold nanocluster structures. *Semiconductor Science and Technology*, **1998**, 13, A111-A114	1.8	30
2	Transport in gold cluster structures defined by electron-beam lithography. *Applied Physics Letters*, **1997**, 71, 617-619	3.4	38
1	Coulomb-Blockade Dominated Transport in Patterned Gold-Cluster Structures. *Japanese Journal of Applied Physics*, **1997**, 36, 7796-7800	1.4	19