

Laura I Clarke

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8073408/laura-i-clarke-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	Artificial molecular rotors. <i>Chemical Reviews</i> , 2005 , 105, 1281-376	68.1	1023
45	Morphological, Electrical, and Mechanical Characterization of Electrospun Nanofiber Mats Containing Multiwalled Carbon Nanotubes. <i>Macromolecules</i> , 2007 , 40, 997-1003	5.5	136
44	Edge electrospinning for high throughput production of quality nanofibers. <i>Nanotechnology</i> , 2011 , 22, 345301	3.4	107
43	Unconfined fluid electrospun into high quality nanofibers from a plate edge. <i>Polymer</i> , 2010 , 51, 4928-4936	3.6	106
42	Fabrication and characterization of electrospun chitosan nanofibers formed via templating with polyethylene oxide. <i>Biomacromolecules</i> , 2008 , 9, 2523-9	6.9	106
41	Development, optimization, and characterization of electrospun poly(lactic acid) nanofibers containing multi-walled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1668-1678	2.9	86
40	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. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 1377-86	2.9	85
39	Dielectric response of a dipolar molecular rotor crystal. <i>Physical Review B</i> , 2005 , 72,	3.3	85
38	Characterization of electrospun nanocomposite scaffolds and biocompatibility with adipose-derived human mesenchymal stem cells. <i>International Journal of Nanomedicine</i> , 2007 , 2, 253-63	7.3	77
37	Embedded metal nanoparticles as localized heat sources: An alternative processing approach for complex polymeric materials. <i>Polymer</i> , 2011 , 52, 1674-1685	3.9	70
36	Nanofibrous composites for tissue engineering applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009 , 1, 369-90	9.2	67
35	Dipolar rotor-rotor interactions in a difluorobenzene molecular rotor crystal. <i>Physical Review B</i> , 2006 , 74,	3.3	67
34	The dielectric response of chloromethylsilyl and dichloromethylsilyl dipolar rotors on fused silica surfaces. <i>Nanotechnology</i> , 2002 , 13, 533-540	3.4	62
33	Metal Nanoparticles Acting as Light-Activated Heating Elements within Composite Materials. <i>Advanced Functional Materials</i> , 2012 , 22, 5259-5270	15.6	58
32	Characterization of Electrical and Mechanical Properties for Coaxial Nanofibers with Poly(ethylene oxide) (PEO) Core and Multiwalled Carbon Nanotube/PEO Sheath. <i>Macromolecules</i> , 2008 , 41, 2509-2513	5.5	39
31	Transport in gold cluster structures defined by electron-beam lithography. <i>Applied Physics Letters</i> , 1997 , 71, 617-619	3.4	38
30	Structure of submonolayer oleic acid coverages on inorganic aerosol particles: evidence of island formation. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3156-61	3.6	38

29	Thermal Annealing of Polymer Nanocomposites via Photothermal Heating: Effects on Crystallinity and Spherulite Morphology. <i>Macromolecules</i> , 2013 , 46, 8596-8607	5.5	36
28	Spatial temperature mapping within polymer nanocomposites undergoing ultrafast photothermal heating via gold nanorods. <i>Nanoscale</i> , 2014 , 6, 15236-47	7.7	32
27	Anisotropic Thermal Processing of Polymer Nanocomposites via the Photothermal Effect of Gold Nanorods. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 193-202	3.1	32
26	Effect of Solution Parameters on Spontaneous Jet Formation and Throughput in Edge Electrospinning from a Fluid-Filled Bowl. <i>Macromolecules</i> , 2012 , 45, 6527-6537	5.5	32
25	Room-temperature Coulomb-blockade-dominated transport in gold nanocluster structures. <i>Semiconductor Science and Technology</i> , 1998 , 13, A111-A114	1.8	30
24	Nanoscale steady-state temperature gradients within polymer nanocomposites undergoing continuous-wave photothermal heating from gold nanorods. <i>Nanoscale</i> , 2017 , 9, 11605-11618	7.7	24
23	Morphological, mechanical, and electrical properties as a function of thermal bonding in electrospun nanocomposites. <i>Polymer</i> , 2011 , 52, 3183-3189	3.9	24
22	Enhanced Crystallinity of Polymer Nanofibers without Loss of Nanofibrous Morphology via Heterogeneous Photothermal Annealing. <i>Macromolecules</i> , 2016 , 49, 9484-9492	5.5	20
21	Maximizing Spontaneous Jet Density and Nanofiber Quality in Unconfined Electrospinning: The Role of Interjet Interactions. <i>Macromolecules</i> , 2013 , 46, 7352-7362	5.5	19
20	Coulomb-Blockade Dominated Transport in Patterned Gold-Cluster Structures. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 7796-7800	1.4	19
19	Background charge fluctuations and the transport properties of biopolymer-gold nanoparticle complexes. <i>Journal of Applied Physics</i> , 2002 , 92, 4513-4517	2.5	19
18	Dynamics within alkylsiloxane self-assembled monolayers studied by sensitive dielectric spectroscopy. <i>ACS Nano</i> , 2008 , 2, 2392-400	16.7	17
17	Fabrication and electrical transport characteristics of low-dimensional nanoparticle arrays organized by biomolecular scaffolds. <i>Microelectronic Engineering</i> , 1999 , 47, 55-57	2.5	16
16	In situ curing of liquid epoxy via gold-nanoparticle mediated photothermal heating. <i>Nanotechnology</i> , 2017 , 28, 065601	3.4	15
15	Effect of constrained annealing on the mechanical properties of electrospun poly(ethylene oxide) webs containing multiwalled carbon nanotubes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 787-796	2.6	14
14	Control of the electric field-polymer solution interaction by utilizing ultra-conductive fluids. <i>Polymer</i> , 2014 , 55, 6390-6398	3.9	12
13	Blending with Non-responsive Polymers to Incorporate Nanoparticles into Shape-Memory Materials and Enable Photothermal Heating: The Effects of Heterogeneous Temperature Distribution. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 2345-2356	2.6	12
12	Unconfined, melt edge electrospinning from multiple, spontaneous, self-organized polymer jets. <i>Materials Research Express</i> , 2014 , 1, 045304	1.7	12

11	Investigating the Molecular Origins of Responsiveness in Functional Silicone Elastomer Networks. <i>Macromolecules</i> , 2010 , 43, 5043-5051	5.5	11
10	The use of biopolymer templates to fabricate low-dimensional gold particle structures. <i>Superlattices and Microstructures</i> , 2000 , 27, 489-493	2.8	9
9	Finite-size effects in nanocomposite thin films and fibers. <i>Physical Review E</i> , 2011 , 84, 021126	2.4	8
8	Percolation in nanocomposites with complex geometries: Experimental and Monte Carlo simulation studies. <i>Physical Review B</i> , 2008 , 78,	3.3	6
7	Photothermally-driven thermo-oxidative degradation of low density polyethylene: heterogeneous heating plus a complex reaction leads to homogeneous chemistry. <i>Nanotechnology</i> , 2019 , 30, 475706	3.4	5
6	Facile measurement of surface heat loss from polymer thin films via fluorescence thermometry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 643-652	2.6	4
5	Growth Dynamics and Morphology of Oleic Acid Vapor-Deposited on a Silica Surface <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2141-2148	3.8	3
4	Tracking the complete degradation lifecycle of poly(ethyl cyanoacrylate): from induced photoluminescence to nitrogen-doped nano-graphene precursor residue. <i>Polymer Degradation and Stability</i> , 2021 , 109772	4.7	1
3	Nanoparticle-based photothermal heating to drive chemical reactions within a solid: using inhomogeneous polymer degradation to manipulate mechanical properties and segregate carbonaceous by-products. <i>Nanoscale</i> , 2020 , 12, 904-923	7.7	1
2	Increasing ionic conductivity within thermoplastics commercial additives results in a dramatic decrease in fiber diameter from melt electrospinning. <i>Soft Matter</i> , 2021 , 17, 9264-9279	3.6	1
1	Nanoscale Patterns of Metal Nanoparticles Chemically-Assembled on Biomolecular Scaffolds: Assembly, Stability and Electron Transport Properties. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 582, 26		