

John J Lannutti

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98
papers

3,018
citations

30
h-index

52
g-index

99
ext. papers

3,260
ext. citations

5.2
avg, IF

5.05
L-index

#	Paper	IF	Citations
98	Improved cellular infiltration in electrospun fiber via engineered porosity. <i>Tissue Engineering</i> , 2007 , 13, 2249-57		340
97	Compressive forces induce osteogenic gene expression in calvarial osteoblasts. <i>Journal of Biomechanics</i> , 2008 , 41, 1095-103	2.9	144
96	Modulation of embryonic mesenchymal progenitor cell differentiation via control over pure mechanical modulus in electrospun nanofibers. <i>Acta Biomaterialia</i> , 2011 , 7, 1516-24	10.8	122
95	Adipogenesis of murine embryonic stem cells in a three-dimensional culture system using electrospun polymer scaffolds. <i>Biomaterials</i> , 2007 , 28, 450-8	15.6	118
94	Materials selection and residual solvent retention in biodegradable electrospun fibers. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 1547-1554	2.9	106
93	Glioma cell migration on three-dimensional nanofiber scaffolds is regulated by substrate topography and abolished by inhibition of STAT3 signaling. <i>Neoplasia</i> , 2011 , 13, 831-40	6.4	96
92	Micropatterning and characterization of electrospun poly(ϵ -caprolactone)/gelatin nanofiber tissue scaffolds by femtosecond laser ablation for tissue engineering applications. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 116-26	4.9	96
91	Ca/P ratio effects on the degradation of hydroxyapatite in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 67, 599-608		93
90	Quantitative analysis of complex glioma cell migration on electrospun polycaprolactone using time-lapse microscopy. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 531-40	2.9	90
89	Mimicking white matter tract topography using core-shell electrospun nanofibers to examine migration of malignant brain tumors. <i>Biomaterials</i> , 2013 , 34, 5181-90	15.6	85
88	Structuring electrospun polycaprolactone nanofiber tissue scaffolds by femtosecond laser ablation. <i>Journal of Laser Applications</i> , 2007 , 19, 225-231	2.1	69
87	Fabrication of burst pressure competent vascular grafts via electrospinning: effects of microstructure. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 923-34	5.4	65
86	Polydimethylsiloxane Core-Polycaprolactone Shell Nanofibers as Biocompatible, Real-Time Oxygen Sensors. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 697-707	8.5	64
85	Hydrogel-electrospun fiber composite materials for hydrophilic protein release. <i>Journal of Controlled Release</i> , 2012 , 158, 165-70	11.7	64
84	Mechanical characterization of electrospun polycaprolactone (PCL): a potential scaffold for tissue engineering. <i>Journal of Biomechanical Engineering</i> , 2008 , 130, 011006	2.1	61
83	Electrospun PCL in vitro: a microstructural basis for mechanical property changes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 467-81	3.5	58
82	Structure-function relationships and source-to-ground distance in electrospun polycaprolactone. <i>Acta Biomaterialia</i> , 2009 , 5, 1552-61	10.8	52

81	High throughput assembly of spatially controlled 3D cell clusters on a micro/nanoplatfrom. <i>Lab on A Chip</i> , 2010 , 10, 775-82	7.2	50
80	Bioactive polymer surfaces via supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2004 , 28, 241-248	4.2	49
79	Curvature in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2004 , 138, 145-155	8.9	46
78	Localized Densification during the Compaction of Alumina Granules: The Stage III Transition. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 685-690	3.8	45
77	Microstructure-property relationships in a tissue-engineering scaffold. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 2919-2927	2.9	42
76	Preferential, enhanced breast cancer cell migration on biomimetic electrospun nanofiber T cell highways <i>BMC Cancer</i> , 2014 , 14, 825	4.8	41
75	Nanofibrillar Surfaces via Reactive Ion Etching. <i>Langmuir</i> , 2003 , 19, 9071-9078	4	40
74	Microscale Sensing of Oxygen via Encapsulated Porphyrin Nanofibers: Effect of Indicator and Polymer "Core" Permeability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8606-14	9.5	39
73	Toward 3D biomimetic models to understand the behavior of glioblastoma multiforme cells. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 314-27	7.9	39
72	X-ray Computed Tomography for Evaluation of Density Gradient Formation during the Compaction of Spray-Dried Granules. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1237-1247	3.8	36
71	Understanding drug release from PCL/gelatin electrospun blends. <i>Journal of Biomaterials Applications</i> , 2017 , 31, 933-949	2.9	33
70	Carbon dioxide impregnation of electrospun polycaprolactone fibers. <i>Journal of Supercritical Fluids</i> , 2007 , 41, 173-178	4.2	31
69	Effect of filler porosity on the abrasion resistance of nanoporous silica gel/polymer composites. <i>Dental Materials</i> , 1998 , 14, 29-36	5.7	30
68	Rapid response oxygen-sensing nanofibers. <i>Materials Science and Engineering C</i> , 2013 , 33, 3450-7	8.3	29
67	Electrospun scaffold topography affects endothelial cell proliferation, metabolic activity, and morphology. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1195-204	5.4	29
66	Cell attachment to hydrogel-electrospun fiber mat composite materials. <i>Journal of Functional Biomaterials</i> , 2012 , 3, 497-513	4.8	27
65	Nanotopographic control of cytoskeletal organization. <i>Langmuir</i> , 2006 , 22, 5087-94	4	27
64	Hydrogel-electrospun fiber mat composite coatings for neural prostheses. <i>Frontiers in Neuroengineering</i> , 2011 , 4, 2		26

63	X-ray Computed Tomography and Mercury Porosimetry for Evaluation of Density Evolution and Porosity Distribution. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 518-522	3.8	25
62	Surface topography during neural stem cell differentiation regulates cell migration and cell morphology. <i>Journal of Comparative Neurology</i> , 2016 , 524, 3485-3502	3.4	24
61	Novel electrospun scaffolds for the molecular analysis of chondrocytes under dynamic compression. <i>Tissue Engineering - Part A</i> , 2009 , 15, 513-23	3.9	23
60	HB-EGF embedded in PGA/PLLA scaffolds via subcritical CO ₂ augments the production of tissue engineered intestine. <i>Biomaterials</i> , 2016 , 103, 150-159	15.6	23
59	Glioma-astrocyte interactions on white matter tract-mimetic aligned electrospun nanofibers. <i>Biotechnology Progress</i> , 2015 , 31, 1406-15	2.8	22
58	Vascular wall engineering via femtosecond laser ablation: scaffolds with self-containing smooth muscle cell populations. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 3031-41	4.7	22
57	Effect of silane coupling agents on the wear resistance of polymer-nanoporous silica gel dental composites. <i>Materials Science and Engineering C</i> , 1997 , 5, 15-22	8.3	22
56	Room temperature perovskite production from bimetallic alkoxides by ketone assisted oxo supplementation (KAOS). <i>Journal of Materials Research</i> , 1996 , 11, 1953-1959	2.5	22
55	Biomimetic microstructural reorganization during suture retention strength evaluation of electrospun vascular scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1525-1534	3.5	22
54	Nanoscale upconversion for oxygen sensing. <i>Materials Science and Engineering C</i> , 2017 , 70, 76-84	8.3	21
53	Nanoscale modifications of PET polymer surfaces via oxygen-plasma discharge yield minimal changes in attachment and growth of mammalian epithelial and mesenchymal cells in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 234-45		20
52	Organ-derived coatings on electrospun nanofibers as ex vivo microenvironments. <i>Biomaterials</i> , 2011 , 32, 538-46	15.6	19
51	Density gradients and springback: environmental influences. <i>Powder Technology</i> , 2003 , 133, 23-32	5.2	19
50	Injectable biodegradable bi-layered capsule for sustained delivery of bevacizumab in treating wet age-related macular degeneration. <i>Journal of Controlled Release</i> , 2020 , 320, 442-456	11.7	18
49	Scaffolding for challenging environments: materials selection for tissue engineered intestine. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3795-802	5.4	17
48	Cancer cell aggregate hypoxia visualized in vitro via biocompatible fiber sensors. <i>Biomaterials</i> , 2016 , 76, 208-17	15.6	16
47	Effects of hydrophobicity and mat thickness on release from hydrogel-electrospun fiber mat composites. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 2018-30	3.5	14
46	Carbon dioxide infusion of composite electrospun fibers for tissue engineering. <i>Journal of Supercritical Fluids</i> , 2012 , 70, 90-99	4.2	14

45	Effect of Density Gradients on Dimensional Tolerance During Binder Removal. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2536-2542	3.8	14
44	Sintered electrospun polycaprolactone for controlled model drug delivery. <i>Materials Science and Engineering C</i> , 2019 , 99, 112-120	8.3	13
43	Effect of Agglomerate Size Distribution on Loose Packing Fraction. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2183-2188	3.8	13
42	Media-based effects on the hydrolytic degradation and crystallization of electrospun synthetic-biologic blends. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 297-309	4.5	12
41	Increased fracture toughness in nanoporous silica/polyimide matrix composites. <i>Journal of Materials Research</i> , 2001 , 16, 1975-1981	2.5	12
40	Comparison of polyglycolic acid, polycaprolactone, and collagen as scaffolds for the production of tissue engineered intestine. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 750-760	3.5	12
39	Effect of Electrospun Fiber Mat Thickness and Support Method on Cell Morphology. <i>Nanomaterials</i> , 2019 , 9,	5.4	11
38	Dual drug release from CO ₂ -infused nanofibers via hydrophobic and hydrophilic interactions. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
37	Density Gradients and Sintered Dimensional Tolerance in Compacts Formed from Spray-Dried Alumina. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1393-1398	3.8	11
36	Recrystallization improves the mechanical properties of sintered electrospun polycaprolactone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 30, 150-8	4.1	10
35	Microstructural disassembly of calcium phosphates. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 61-70		9
34	Sintered electrospun poly(ϵ -caprolactone)/poly(ethylene terephthalate) for drug delivery. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47731	2.9	8
33	Electrospun vascular graft properties following femtosecond laser ablation. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2513-2523	2.9	8
32	An additive micromolding approach for the development of micromachined ceramic substrates for RF applications. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 514-525	2.5	8
31	Modeling polyethylene wear acceleration due to femoral head dislocation damage. <i>Journal of Arthroplasty</i> , 2014 , 29, 1653-1657.e1	4.4	7
30	Phase instability in ZrO ₂ /NiAl functionally graded materials. <i>Journal of Materials Research</i> , 1997 , 12, 2589-2593	2.5	7
29	Three-dimensional laser micrometry characterization of surface wear in total hip arthroplasty. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 82, 428-39	3.5	7
28	Density gradients formed during compaction of bronze powders: the origins of part-to-part variation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 165-170	2.3	7

27	Solid-state NMR evaluation of the silane structure on nanoporous silica fillers. <i>Journal of Adhesion Science and Technology</i> , 2001 , 15, 267-277	2	7
26	Fabrication of functional nanofibers through post-nanoparticle functionalization. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 678-683	4.8	6
25	Effects of humidity on titania-based polyvinylpyrrolidone (PVP) electrospun fibers. <i>Ceramics International</i> , 2012 , 38, 4057-4064	5.1	6
24	Localized Densification during the Stage III Transition - Compaction Efficiency at High Pressures. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 557-564	3.8	6
23	Cold isostatic compaction of nano-size powders: Surface densification and dimensional asymmetry. <i>Journal of Materials Research</i> , 2002 , 17, 2794-2801	2.5	6
22	Microstructure and Reactions of SiCw-Reinforced Alumina with Ag-Cu-In-Ti. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 15-20	3.8	6
21	Ablation characteristics of electrospun core-shell nanofiber by femtosecond laser. <i>Materials Science and Engineering C</i> , 2016 , 65, 232-9	8.3	5
20	Encoding scratch and scrape features for wear modeling of total joint replacements. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 624267	2.8	5
19	Upconverter-powered oxygen sensing in electrospun polymeric bilayers. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 197-205	8.5	5
18	Photostability of oxygen-sensitive core-shell nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 269-277	8.5	5
17	Hemoglobin regulates the migration of glioma cells along poly(ϵ -caprolactone)-aligned nanofibers. <i>Biotechnology Progress</i> , 2014 , 30, 1214-20	2.8	4
16	Wettability modification of electrospun poly(ϵ -caprolactone) fiber by femtosecond laser irradiation. <i>Journal of Laser Applications</i> , 2013 , 25, 012002	2.1	4
15	Curvature evolution in LTCC tapes and laminates. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2005 , 28, 149-156		4
14	Nanofiber-based paramagnetic probes for rapid, real-time biomedical oximetry. <i>Biomedical Microdevices</i> , 2016 , 18, 38	3.7	4
13	Oxygen sensing performance of biodegradable electrospun nanofibers: Influence of fiber composition and core-shell geometry. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129191	8.5	4
12	Modulation of biomimetic mineralization of collagen by soluble ectodomain of discoidin domain receptor 2. <i>Materials Science and Engineering C</i> , 2019 , 104, 109905	8.3	3
11	Analysis of long-term optical performance of phosphorescent oxygen sensing polymeric nanofibers. <i>Polymer Testing</i> , 2019 , 80, 106127	4.5	2
10	Optical scattering in electrospun poly(ϵ -caprolactone) tissue scaffolds. <i>Journal of Laser Applications</i> , 2014 , 26, 032004	2.1	2

9	Physical characterization of electrospun polycaprolactone via laser micrometry: Porosity and condition-dependent jet instabilities. <i>Polymer</i> , 2020 , 211, 123044	3.9	2
8	Self-reinforcing nanoscalar polycaprolactone-polyethylene terephthalate electrospun fiber blends. <i>Polymer</i> , 2020 , 202, 122573	3.9	1
7	Surface topography during neural stem cell differentiation regulates cell migration and cell morphology. <i>Journal of Comparative Neurology</i> , 2016 , 524, Spc1-Spc1	3.4	1
6	Bearing-Foreign Material Deposition on Retrieved Co-Cr Femoral Heads: Composition and Morphology. <i>BioMed Research International</i> , 2015 , 2015, 967278	3	1
5	THA Retrievals: The Need to Mark the Anatomic Orientation of the Femoral Head. <i>Journal of Arthroplasty</i> , 2015 , 30, 1089-94	4.4	1
4	Phase transformation effects on the wear properties of alumina gel polymer matrix nanocomposites. <i>Journal of Materials Research</i> , 2001 , 16, 1680-1685	2.5	1
3	Biodegradable oxygen biosensors via electrospinning. <i>Medical Devices & Sensors</i> , 2021 , 4, e10149	1.6	1
2	3D reconstruction of bias effects on porosity, alignment and mesoscale structure in electrospun tubular polycaprolactone. <i>Polymer</i> , 2021 , 232, 124120	3.9	1
1	Injectable, dispersible polysulfone-polysulfone core-shell particles for optical oxygen sensing. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50603	2.9	