Elizabeth Cosgriff-Hernandez

List of Publications by Year
in descending order

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83
papers

5,174
citations

94269

37
h-index

88477

70
g-index

85
all docs

85
docs citations

85
times ranked

7432
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactive Nanoengineered Hydrogels for Bone Tissue Engineering: A Growth-Factor-Free Approach. ACS Nano, 2015, 9, 3109-3118.	7.3	547
2	Effects of Humidity and Solution Viscosity on Electrospun Fiber Morphology. Tissue Engineering - Part C: Methods, 2013, 19, 810-819.	1.1	317
3	Nanobiomaterial applications in orthopedics. Journal of Orthopaedic Research, 2007, 25, 11-22.	1.2	316
4	A Review of Three-Dimensional Printing in Tissue Engineering. Tissue Engineering - Part B: Reviews, 2016, 22, 298-310.	2.5	280
5	Biomaterial adherent macrophage apoptosis is increased by hydrophilic and anionic substrates in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10287-10292.	3.3	216
6	Recent advancements in electrospinning design for tissue engineering applications: A review. Journal of Biomedical Materials Research - Part A, 2017, 105, 2892-2905.	2.1	180
7	Low density biodegradable shape memory polyurethane foams for embolic biomedical applications. Acta Biomaterialia, 2014, 10, 67-76.	4.1	155
8	Relationship between nanoscale deformation processes and elastic behavior of polyurethane elastomers. Polymer, 2005, 46, 11744-11754.	1.8	145
9	Biodegradable Fumarate-Based PolyHIPEs as Tissue Engineering Scaffolds. Biomacromolecules, 2007, 8, 3806-3814.	2.6	142
10	Multilayer vascular grafts based on collagen-mimetic proteins. Acta Biomaterialia, 2012, 8, 1010-1021.	4.1	134
11	Determination of the<i>in vivo</i>degradation mechanism of PEGDA hydrogels. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	2.1	134
12	A shape memory foam composite with enhanced fluid uptake and bactericidal properties as a hemostatic agent. Acta Biomaterialia, 2017, 47, 91-99.	4.1	133
13	Injectable PolyHIPEs as High-Porosity Bone Grafts. Biomacromolecules, 2011, 12, 3621-3628.	2.6	128
14	Enzymatic degradation of poly(ether urethane) and poly(carbonate urethane) by cholesterol esterase. Biomaterials, 2006, 27, 3920-3926.	5.7	112
15	Fund Black scientists. Cell, 2021, 184, 561-565.	13.5	107
16	Bioactive hydrogels based on Designer Collagens. Acta Biomaterialia, 2010, 6, 3969-3977.	4.1	89
17	Development of a Biostable Replacement for PEGDA Hydrogels. Biomacromolecules, 2012, 13, 779-786.	2.6	88
18	Emulsion Inks for 3D Printing of High Porosity Materials. Macromolecular Rapid Communications, 2016, 37, 1369-1374.	2.0	77

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19	In vivo biocompatibility and biodegradation of poly(ethylene carbonate). Journal of Controlled Release, 2003, 93, 259-270.	4.8	74
20	Achieving Interconnected Pore Architecture in Injectable PolyHIPEs for Bone Tissue Engineering. Tissue Engineering - Part A, 2014, 20, 1103-1112.	1.6	72
21	The Role of Mechanical Loading in Ligament Tissue Engineering. Tissue Engineering - Part B: Reviews, 2009, 15, 467-475.	2.5	70
22	Compositional control of poly(ethylene glycol) hydrogel modulus independent of mesh size. Journal of Biomedical Materials Research - Part A, 2011, 98A, 268-273.	2.1	69
23	Electrospun vascular grafts with improved compliance matching to native vessels. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 313-323.	1.6	68
24	Electrospun Polyurethane and Hydrogel Composite Scaffolds as Biomechanical Mimics for Aortic Valve Tissue Engineering. ACS Biomaterials Science and Engineering, 2016, 2, 1546-1558.	2.6	67
25	Comparative analysis of fiber alignment methods in electrospinning. Matter, 2021, 4, 821-844.	5.0	67
26	In situ crosslinking of electrospun gelatin for improved fiber morphology retention and tunable degradation. Journal of Materials Chemistry B, 2015, 3, 7930-7938.	2.9	66
27	Fabrication of biomimetic bone grafts with multi-material 3D printing. Biofabrication, 2017, 9, 025020.	3.7	64
28	Improved in situ seeding of 3D printed scaffolds using cell-releasing hydrogels. Biomaterials, 2018, 185, 194-204.	5.7	60
29	Review of Integrinâ€•Targeting Biomaterials in Tissue Engineering. Advanced Healthcare Materials, 2020, 9, e2000795.	3.9	54
30	Precise control of synthetic hydrogel network structure via linear, independent synthesis-swelling relationships. Science Advances, 2021, 7, .	4.7	54
31	Injectable Polymerized High Internal Phase Emulsions with Rapid in Situ Curing. Biomacromolecules, 2014, 15, 2870-2878.	2.6	53
32	Elucidating the role of graft compliance mismatch on intimal hyperplasia using an ex vivo organ culture model. Acta Biomaterialia, 2019, 89, 84-94.	4.1	53
33	Comparative analysis of <i>in vitro</i> oxidative degradation of poly(carbonate urethanes) for biostability screening. Journal of Biomedical Materials Research - Part A, 2014, 102, 3649-3665.	2.1	51
34	Gelatin Matrices for Growth Factor Sequestration. Trends in Biotechnology, 2020, 38, 546-557.	4.9	51
35	Fabrication and Characterization of Electrospun Decellularized Muscle-Derived Scaffolds. Tissue Engineering - Part C: Methods, 2019, 25, 276-287.	1.1	46
36	Hemostatic and Absorbent PolyHIPEâ€“Kaolin Composites for 3D Printable Wound Dressing Materials. Macromolecular Bioscience, 2018, 18, e1700414.	2.1	45

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37	Fabrication of macromolecular gradients in aligned fiber scaffolds using a combination of in-line blending and air-gap electrospinning. Acta Biomaterialia, 2017, 56, 118-128.	4.1	44
38	Limitations of predicting<i>in vivo</i>biostability of multiphase polyurethane elastomers using temperature-accelerated degradation testing. , 2015, 103, 159-168.		38
39	Chronic Wound Dressings Based on Collagen-Mimetic Proteins. Advances in Wound Care, 2015, 4, 444-456.	2.6	36
40	Solventâ€Free Fabrication of polyHIPE Microspheres for Controlled Release of Growth Factors. Macromolecular Rapid Communications, 2014, 35, 1301-1305.	2.0	34
41	Osteoinductive PolyHIPE Foams as Injectable Bone Grafts. Tissue Engineering - Part A, 2016, 22, 403-414.	1.6	34
42	Porous PolyHIPE microspheres for protein delivery from an injectable bone graft. Acta Biomaterialia, 2019, 93, 169-179.	4.1	33
43	A Review of Integrin-Mediated Endothelial Cell Phenotype in the Design of Cardiovascular Devices. Annals of Biomedical Engineering, 2019, 47, 366-380.	1.3	32
44	Injectable polyMIPE scaffolds for soft tissue regeneration. Polymer, 2014, 55, 426-434.	1.8	31
45	Synthesis and Characterization of Plug-and-Play Polyurethane Urea Elastomers as Biodegradable Matrixes for Tissue Engineering Applications. ACS Biomaterials Science and Engineering, 2017, 3, 3493-3502.	2.6	31
46	Bioactive Hydrogels with Enhanced Initial and Sustained Cell Interactions. Biomacromolecules, 2013, 14, 2225-2233.	2.6	30
47	Prevention of Oxygen Inhibition of PolyHIPE Radical Polymerization Using a Thiol-Based Cross-Linker. ACS Biomaterials Science and Engineering, 2017, 3, 409-419.	2.6	30
48	Drying and storage effects on poly(ethylene glycol) hydrogel mechanical properties and bioactivity. Journal of Biomedical Materials Research - Part A, 2014, 102, 3066-3076.	2.1	27
49	Bactericidal activity of 3D-printed hydrogel dressing loaded with gallium maltolate. APL Bioengineering, 2019, 3, 026102.	3.3	26
50	Fiber engraving for bioink bioprinting within 3D printed tissue engineering scaffolds. Bioprinting, 2020, 18, e00076.	2.9	26
51	Micropatterning of Electrospun Polyurethane Fibers Through Control of Surface Topography. Macromolecular Materials and Engineering, 2010, 295, 990-994.	1.7	23
52	Endothelial Cell Response to Chemical, Biological, and Physical Cues in Bioactive Hydrogels. Tissue Engineering - Part A, 2014, 20, 3130-3141.	1.6	23
53	Comparison of clinical explants and accelerated hydrolytic aging to improve biostability assessment of siliconeâ€based polyurethanes. Journal of Biomedical Materials Research - Part A, 2016, 104, 1805-1816.	2.1	21
54	New Biomaterials as Scaffolds for Tissue Engineering. Pharmaceutical Research, 2008, 25, 2345-2347.	1.7	20

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55	Hydrocolloid Inks for 3D Printing of Porous Hydrogels. Advanced Materials Technologies, 2019, 4, 1800343.	3.0	19
56	Evaluation of a polyurethane-reinforced hydrogel patch in a rat right ventricle wall replacement model. Acta Biomaterialia, 2020, 101, 206-218.	4.1	18
57	Animal Models and Alternatives in Vaginal Research: a Comparative Review. Reproductive Sciences, 2021, 28, 1759-1773.	1.1	17
58	Characterization of a resorbable poly(ester urethane) with biodegradable hard segments. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 535-554.	1.9	16
59	Introduction of sacrificial bonds to hydrogels to increase defect tolerance during suturing of multilayer vascular grafts. Acta Biomaterialia, 2018, 69, 313-322.	4.1	15
60	Reactive Surfactants for Achieving Openâ€Cell PolyHIPE Foams from Pickering Emulsions. Macromolecular Materials and Engineering, 2021, 306, 2000825.	1.7	15
61	Synthesis of Collagenaseâ€Sensitive Polyureas for Ligament Tissue Engineering. Macromolecular Bioscience, 2011, 11, 1020-1030.	2.1	14
62	Hybrid polyurea elastomers with enzymatic degradation and tunable mechanical properties. Journal of Tissue Engineering, 2016, 7, 204173141667936.	2.3	14
63	Anisotropic elastic behavior of a hydrogel-coated electrospun polyurethane: Suitability for heart valve leaflets. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104877.	1.5	14
64	Methacrylate-based polymer foams with controllable connectivity, pore shape, pore size and polydispersity. Physical Chemistry Chemical Physics, 2020, 22, 155-168.	1.3	13
65	Bioactive hydrogel coatings of complex substrates using diffusion-mediated redox initiation. Journal of Materials Chemistry B, 2020, 8, 4289-4298.	2.9	12
66	Assaying How Phagocytic Success Depends on the Elasticity of a Large Target Structure. Biophysical Journal, 2019, 117, 1496-1507.	0.2	9
67	In Vivo Characterization of Poly(ethylene glycol) Hydrogels with Thio-Î² Esters. Annals of Biomedical Engineering, 2020, 48, 953-967.	1.3	9
68	In vivo performance of a bilayer wrap to prevent abdominal adhesions. Acta Biomaterialia, 2020, 115, 116-126.	4.1	7
69	Engineering Toolbox for Systematic Design of PolyHIPE Architecture. Polymers, 2021, 13, 1479.	2.0	7
70	Winner of the society for biomaterials student award in the Ph.D. category for the annual meeting of the society for biomaterials, april 11â€“14, 2018, Atlanta, GA: Development of a bimodal, <i>in situ</i> crosslinking method to achieve multifactor release from electrospun gelatin. Journal of Biomedical Materials Research - Part A, 2018, 106, 1155-1164.	2.1	6
71	Poly(ethylene glycol)-Based Coatings for Bioprosthetic Valve Tissues: Toward Restoration of Physiological Behavior. ACS Applied Bio Materials, 2020, 3, 8352-8360.	2.3	6
72	PoreScript: Semi-automated pore size algorithm for scaffold characterization. Bioactive Materials, 2022, 13, 1-8.	8.6	6

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73	Prokaryotic Collagen-Like Proteins as Novel Biomaterials. Frontiers in Bioengineering and Biotechnology, 2022, 10, 840939.	2.0	6
74	Comparative efficacy of resorbable fiber wraps loaded with gentamicin sulfate or gallium maltolate in the treatment of osteomyelitis. Journal of Biomedical Materials Research - Part A, 2021, 109, 2255-2268.	2.1	5
75	High Compliance Vascular Grafts Based on Semi-Interpenetrating Networks. Macromolecular Materials and Engineering, 2014, 299, 1455-1464.	1.7	4
76	Elucidation of Endothelial Cell Hemostatic Regulation with Integrin-Targeting Hydrogels. Annals of Biomedical Engineering, 2019, 47, 866-877.	1.3	4
77	A Prevascularized Polyurethaneâ€Reinforced Fibrin Patch Improves Regenerative Remodeling in a Rat Right Ventricle Replacement Model. Advanced Healthcare Materials, 2021, 10, e2101018.	3.9	4
78	Quantitative confocal microscopy and calibration for measuring differences in cyclic-di-GMP signalling by bacteria on biomedical hydrogels. Royal Society Open Science, 2021, 8, 201453.	1.1	3
79	Emerging technologies in pediatric gynecology: new paradigms in women's health care. Current Opinion in Obstetrics and Gynecology, 2019, 31, 309-316.	0.9	2
80	Model-Directed Design of Tissue Engineering Scaffolds. ACS Biomaterials Science and Engineering, 2022, 8, 4622-4624.	2.6	1
81	Reconstituting electrical conduction in soft tissue: the path to replace the ablationist. Europace, 2021, 23, 1892-1902.	0.7	0
82	Emulsion Templating. , 2012, , 665-678.		0
83	PO-709-08 CONDUCTIVE HYDROGELS FOR RF ENERGY DELIVERY: A NOVEL APPLICATION. Heart Rhythm, 2022, 19, S472.	0.3	0