

# Kara L Spiller

## List of Publications by Year in descending order

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79  
papers

4,748  
citations

136950

32  
h-index

138484

58  
g-index

83  
all docs

83  
docs citations

83  
times ranked

6526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pro-inflammatory polarization primes Macrophages to transition into a distinct M2-like phenotype in response to IL-4. <i>Journal of Leukocyte Biology</i> , 2022, 111, 989-1000.	3.3	17
2	Human Hair Follicle-Derived Mesenchymal Stromal Cells from the Lower Dermal Sheath as a Competitive Alternative for Immunomodulation. <i>Biomedicines</i> , 2022, 10, 253.	3.2	7
3	Immunomodulation of Acellular Dermal Matrix Through Interleukin 4 Enhances Vascular Infiltration. <i>Annals of Plastic Surgery</i> , 2022, 88, S466-S472.	0.9	3
4	Temporal Control over Macrophage Phenotype and the Host Response via Magnetically Actuated Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 3526-3541.	5.2	0
5	Regulation of extracellular matrix assembly and structure by hybrid M1/M2 macrophages. <i>Biomaterials</i> , 2021, 269, 120667.	11.4	106
6	Distinct Gene Expression Profile in Patients With Poor Postoperative Outcomes After Rotator Cuff Repair: A Case-Control Study. <i>American Journal of Sports Medicine</i> , 2021, 49, 2760-2770.	4.2	2
7	Immunomodulatory Biomaterials for Tissue Repair. <i>Chemical Reviews</i> , 2021, 121, 11305-11335.	47.7	121
8	Imparting Immunomodulatory Activity to Scaffolds via Biotin-Avidin Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5611-5621.	5.2	5
9	Tunable Blood Shunt for Neonates With Complex Congenital Heart Defects. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 734310.	4.1	1
10	Biomaterial-mediated reprogramming of monocytes via microparticle phagocytosis for sustained modulation of macrophage phenotype. <i>Acta Biomaterialia</i> , 2020, 101, 237-248.	8.3	27
11	Effects of Biotin-Avidin Interactions on Hydrogel Swelling. <i>Frontiers in Chemistry</i> , 2020, 8, 593422.	3.6	7
12	Macrophages of diverse phenotypes drive vascularization of engineered tissues. <i>Science Advances</i> , 2020, 6, eaay6391.	10.3	152
13	Characterizing the Macrophage Response to Immunomodulatory Biomaterials Through Gene Set Analyses. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 156-169.	2.1	8
14	Controlled M1-to-M2 transition of aged macrophages by calcium phosphate coatings. <i>Biomaterials</i> , 2019, 196, 90-99.	11.4	73
15	Human macrophage response to microbial supernatants from diabetic foot ulcers. <i>Wound Repair and Regeneration</i> , 2019, 27, 598-608.	3.0	9
16	Macrophage and Fibroblast Interactions in Biomaterial-Mediated Fibrosis. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801451.	7.6	211
17	Immunomodulatory nanodiamond aggregate-based platform for the treatment of rheumatoid arthritis. <i>International Journal of Energy Production and Management</i> , 2019, 6, 163-174.	3.7	23
18	Healing of Chronic Wounds: An Update of Recent Developments and Future Possibilities. <i>Tissue Engineering - Part B: Reviews</i> , 2019, 25, 429-444.	4.8	63

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19	Sequential drug delivery to modulate macrophage behavior and enhance implant integration. <i>Advanced Drug Delivery Reviews</i> , 2019, 149-150, 85-94.	13.7	82
20	Modulation of inflammation in wounds of diabetic patients treated with porcine urinary bladder matrix. <i>Regenerative Medicine</i> , 2019, 14, 269-277.	1.7	22
21	Modulation of macrophage phenotype via phagocytosis of drug-loaded microparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1213-1224.	4.0	22
22	Cardiovascular protection in females linked to estrogen-dependent inhibition of arterial stiffening and macrophage MMP12. <i>JCI Insight</i> , 2019, 4, .	5.0	35
23	In Vitro Model of Macrophage-Biomaterial Interactions. <i>Methods in Molecular Biology</i> , 2018, 1758, 161-176.	0.9	11
24	Regenerative Biomaterials. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1113-1114.	5.2	1
25	Host-Biomaterial Interactions in Zebrafish. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1233-1240.	5.2	16
26	Biomaterials and Bioactive Factor Delivery Systems for the Control of Macrophage Activation in Regenerative Medicine. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1137-1148.	5.2	21
27	Accumulation and localization of macrophage phenotypes with human intervertebral disc degeneration. <i>Spine Journal</i> , 2018, 18, 343-356.	1.3	116
28	Effects of Non-thermal, Non-cavitation Ultrasound Exposure on Human Diabetic Ulcer Healing and Inflammatory Gene Expression in a Pilot Study. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2043-2049.	1.5	25
29	Small molecule disruption of G protein $\beta\gamma$ subunit signaling reprograms human macrophage phenotype and prevents autoimmune myocarditis in rats. <i>PLoS ONE</i> , 2018, 13, e0200697.	2.5	11
30	Rapid neuroinflammatory response localized to injured neurons after diffuse traumatic brain injury in swine. <i>Experimental Neurology</i> , 2017, 290, 85-94.	4.1	58
31	Macrophage Transcriptional Profile Identifies Lipid Catabolic Pathways That Can Be Therapeutically Targeted after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2017, 37, 2362-2376.	3.6	82
32	Transcriptome analysis of IL-10-stimulated (M2c) macrophages by next-generation sequencing. <i>Immunobiology</i> , 2017, 222, 847-856.	1.9	142
33	Macrophage-based therapeutic strategies in regenerative medicine. <i>Advanced Drug Delivery Reviews</i> , 2017, 122, 74-83.	13.7	234
34	Deconvolution of heterogeneous wound tissue samples into relative macrophage phenotype composition via <i>vi</i> models based on gene expression. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 328-338.	1.3	20
35	Biomimetic Approaches for Bone Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 480-493.	4.8	69
36	Cardiac Progenitor Cell Recruitment Drives Fetal Cardiac Regeneration by Enhanced Angiogenesis. <i>Annals of Thoracic Surgery</i> , 2017, 104, 1968-1975.	1.3	7

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37	Anti-inflammatory effects of octadecylamine-functionalized nanodiamond on primary human macrophages. <i>Biomaterials Science</i> , 2017, 5, 2131-2143.	5.4	30
38	Immunomodulatory Effects of Human Cryopreserved Viable Amniotic Membrane in a Pro-Inflammatory Environment In Vitro. <i>Cellular and Molecular Bioengineering</i> , 2017, 10, 451-462.	2.1	27
39	Engineering Vascular Niche for Bone Tissue Regeneration. , 2017, , 517-529.		0
40	Response of human macrophages to wound matrices in vitro. <i>Wound Repair and Regeneration</i> , 2016, 24, 514-524.	3.0	55
41	Drug delivery strategies to control macrophages for tissue repair and regeneration. <i>Experimental Biology and Medicine</i> , 2016, 241, 1054-1063.	2.4	43
42	Kinetics and mechanics of clot contraction are governed by the molecular and cellular composition of the blood. <i>Blood</i> , 2016, 127, 149-159.	1.4	133
43	<i>In vitro</i> response of macrophages to ceramic scaffolds used for bone regeneration. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160346.	3.4	41
44	Effect of M1â€M2 Polarization on the Motility and Traction Stresses of Primary Human Macrophages. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 455-465.	2.1	48
45	Temporal and spatial distribution of macrophage phenotype markers in the foreign body response to glutaraldehyde-crosslinked gelatin hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 721-742.	3.5	63
46	Nanoparticulate Systems for Controlling Monocyte/Macrophage Behavior. , 2016, , 291-304.		5
47	Differential gene expression in human, murine, and cell line-derived macrophages upon polarization. <i>Experimental Cell Research</i> , 2016, 347, 1-13.	2.6	131
48	Pigs in a blanket. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
49	Macrophages Modulate Engineered Human Tissues for Enhanced Vascularization and Healing. <i>Annals of Biomedical Engineering</i> , 2015, 43, 616-627.	2.5	64
50	Effects of radical oxygen species and antioxidants on macrophage polarization. , 2015, , .		2
51	Relative Expression of Proinflammatory and Antiinflammatory Genes Reveals Differences between Healing and Nonhealing Human Chronic Diabetic Foot Ulcers. <i>Journal of Investigative Dermatology</i> , 2015, 135, 1700-1703.	0.7	85
52	Controlled release of cytokines using silk-biomaterials for macrophage polarization. <i>Biomaterials</i> , 2015, 73, 272-283.	11.4	110
53	Clinical translation of controlled protein delivery systems for tissue engineering. <i>Drug Delivery and Translational Research</i> , 2015, 5, 101-115.	5.8	36
54	Sequential delivery of immunomodulatory cytokines to facilitate the M1-to-M2 transition of macrophages and enhance vascularization of bone scaffolds. <i>Biomaterials</i> , 2015, 37, 194-207.	11.4	568

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55	Manipulation of Macrophages to Enhance Bone Repair and Regeneration. Mechanical Engineering Series, 2015, , 65-84.	0.2	3
56	The Role of Macrophages in the Foreign Body Response to Implanted Biomaterials. , 2015, , 17-34.		20
57	Control under pressure. Science Translational Medicine, 2015, 7, .	12.4	0
58	Tissue engineering the origins of life. Science Translational Medicine, 2015, 7, .	12.4	0
59	Shaping up nicely. Science Translational Medicine, 2015, 7, .	12.4	0
60	Heart attack on a plate. Science Translational Medicine, 2015, 7, .	12.4	0
61	Battle scars: SAP and CRP. Science Translational Medicine, 2015, 7, .	12.4	0
62	Contagious biomaterials. Science Translational Medicine, 2015, 7, .	12.4	0
63	Super model. Science Translational Medicine, 2015, 7, .	12.4	0
64	Wound healing goes green. Science Translational Medicine, 2015, 7, .	12.4	0
65	Efficacy by design. Science Translational Medicine, 2015, 7, .	12.4	0
66	The role of macrophage phenotype in vascularization of tissue engineering scaffolds. Biomaterials, 2014, 35, 4477-4488.	11.4	728
67	Spotlight on Cancer. Science Translational Medicine, 2014, 6, .	12.4	0
68	How to Build a Better Bone Tumor. Science Translational Medicine, 2014, 6, .	12.4	0
69	A Stroke of Genius. Science Translational Medicine, 2014, 6, .	12.4	0
70	Culture Shock! Brain-Like Tissue Grown in Vitro Has Potential. Science Translational Medicine, 2014, 6, .	12.4	0
71	Elbow Grease. Science Translational Medicine, 2014, 6, .	12.4	0
72	The Clot Thickens. Science Translational Medicine, 2014, 6, .	12.4	0

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73	Supplementation of Exogenous Adenosine 5â€™-Triphosphate Enhances Mechanical Properties of 3D Cellâ€™ Agarose Constructs for Cartilage Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2013, 19, 2188-2200.	3.1	20
74	A novel method for the direct fabrication of growth factor-loaded microspheres within porous nondegradable hydrogels: Controlled release for cartilage tissue engineering. <i>Journal of Controlled Release</i> , 2012, 157, 39-45.	9.9	100
75	Hydrogels for the Repair of Articular Cartilage Defects. <i>Tissue Engineering - Part B: Reviews</i> , 2011, 17, 281-299.	4.8	385
76	Design of semi-degradable hydrogels based on poly(vinyl alcohol) and poly(lactic-co-glycolic acid) for cartilage tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 636-647.	2.7	34
77	Analysis of the in vitro swelling behavior of poly(vinyl alcohol) hydrogels in osmotic pressure solution for soft tissue replacement. <i>Acta Biomaterialia</i> , 2011, 7, 2477-2482.	8.3	67
78	Superporous hydrogels for cartilage repair: Evaluation of the morphological and mechanical properties. <i>Acta Biomaterialia</i> , 2008, 4, 17-25.	8.3	104
79	Semi-Degradable Scaffold for Articular Cartilage Replacement. <i>Tissue Engineering - Part A</i> , 2008, 14, 207-213.	3.1	33