Michelle F Griffin

List of Publications by Year
in descending order

88 papers	3,029 citations	159525 30 h-index	182361 51 g-index
90 all docs	90 docs citations	90 times ranked	4351 citing authors

#	Article	IF	Citations
1	Preventing Engrailed-1 activation in fibroblasts yields wound regeneration without scarring. Science, 2021, 372, .	6.0	269
2	Impact of the Coronavirus (COVID-19) pandemic on surgical practice - Part 1. International Journal of Surgery, 2020, 79, 168-179.	1.1	205
3	Animal models for bone tissue engineering and modelling disease. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	188
4	Impact of the Coronavirus (COVID-19) pandemic on surgical practice - Part 2 (surgical prioritisation). International Journal of Surgery, 2020, 79, 233-248.	1.1	177
5	The regenerative role of adiposeâ€derived stem cells (<scp>ADSC</scp>) in plastic and reconstructive surgery. International Wound Journal, 2017, 14, 112-124.	1.3	121
6	Systematic review of patient factors affecting adipose stem cell viability and function: implications for regenerative therapy. Stem Cell Research and Therapy, 2017, 8, 45.	2.4	115
7	Health policy and leadership models during the COVID-19 pandemic: A review. International Journal of Surgery, 2020, 81, 122-129.	1.1	112
8	Systematic Review of the Use of 3-Dimensional Printing in Surgical Teaching and Assessment. Journal of Surgical Education, 2018, 75, 209-221.	1.2	103
9	Understanding the impact of fibroblast heterogeneity on skin fibrosis. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	101
10	Impact of the coronavirus (COVID-19) pandemic on scientific research and implications for clinical academic training â€“ A review. International Journal of Surgery, 2021, 86, 57-63.	1.1	92
11	Control of stem cell fate by engineering their micro and nanoenvironment. World Journal of Stem Cells, 2015, 7, 37.	1.3	90
12	Multi-omic analysis reveals divergent molecular events in scarring and regenerative wound healing. Cell Stem Cell, 2022, 29, 315-327.e6.	5.2	69
13	Comparison of the mechanical properties of different skin sites for auricular and nasal reconstruction. Journal of Otolaryngology - Head and Neck Surgery, 2017, 46, 33.	0.9	66
14	The Current Versatility of Polyurethane Three-Dimensional Printing for Biomedical Applications. Tissue Engineering - Part B: Reviews, 2020, 26, 272-283.	2.5	58
15	Chemical group-dependent plasma polymerisation preferentially directs adipose stem cell differentiation towards osteogenic or chondrogenic lineages. Acta Biomaterialia, 2017, 50, 450-461.	4.1	56
16	Biomechanical Characterization of Human Soft Tissues Using Indentation and Tensile Testing. Journal of Visualized Experiments, 2016, , .	0.2	53
17	Biomechanical characterisation of the human nasal cartilages; implications for tissue engineering. Journal of Materials Science: Materials in Medicine, 2016, 27, 11.	1.7	50
18	Optimising the decellularization of human elastic cartilage with trypsin for future use in ear reconstruction. Scientific Reports, 2018, 8, 3097.	1.6	50

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19	Three-Dimensional Printing Surgical Applications. Eplasty, 2015, 15, e37.	0.4	48
20	Biomechanical Characterisation of the Human Auricular Cartilages; Implications for Tissue Engineering. Annals of Biomedical Engineering, 2016, 44, 3460-3467.	1.3	47
21	Prrx1 Fibroblasts Represent a Pro-fibrotic Lineage in the Mouse Ventral Dermis. Cell Reports, 2020, 33, 108356.	2.9	44
22	Evaluating the Use of Cleft Lip and Palate 3D-Printed Models as a Teaching Aid. Journal of Surgical Education, 2018, 75, 200-208.	1.2	43
23	Disrupting biological sensors of force promotes tissue regeneration in large organisms. Nature Communications, 2021, 12, 5256.	5.8	43
24	Characteristics of human adipose derived stem cells in scleroderma in comparison to sex and age matched normal controls: implications for regenerative medicine. Stem Cell Research and Therapy, 2017, 8, 23.	2.4	42
25	Stem cell enriched lipotransfer reverses the effects of fibrosis in systemic sclerosis. PLoS ONE, 2019, 14, e0218068.	1.1	39
26	Enhancing tissue integration and angiogenesis of a novel nanocomposite polymer using plasma surface polymerisation, an in vitro and in vivo study. Biomaterials Science, 2016, 4, 145-158.	2.6	37
27	Argon plasma improves the tissue integration and angiogenesis of subcutaneous implants by modifying surface chemistry and topography. International Journal of Nanomedicine, 2018, Volume 13, 6123-6141.	3.3	35
28	Regenerative medicine for skeletal muscle loss: a review of current tissue engineering approaches. Journal of Materials Science: Materials in Medicine, 2021, 32, 15.	1.7	34
29	Use of Lipotransfer in Scleroderma. Aesthetic Surgery Journal, 2017, 37, S33-S37.	0.9	33
30	JUN promotes hypertrophic skin scarring via CD36 in preclinical in vitro and in vivo models. Science Translational Medicine, 2021, 13, eabb3312.	5.8	32
31	Adipose derived stem cells and platelet rich plasma improve the tissue integration and angiogenesis of biodegradable scaffolds for soft tissue regeneration. Molecular Biology Reports, 2020, 47, 2005-2013.	1.0	31
32	Disrupting mechanotransduction decreases fibrosis and contracture in split-thickness skin grafting. Science Translational Medicine, 2022, 14, eabj9152.	5.8	31
33	The Use of Adipose Stem Cells in Cranial Facial Surgery. Stem Cell Reviews and Reports, 2014, 10, 671-685.	5.6	30
34	Adipose regeneration and implications for breast reconstruction: update and the future. Gland Surgery, 2016, 5, 227-41.	0.5	30
35	Development of mechano-responsive polymeric scaffolds using functionalized silica nano-fillers for the control of cellular functions. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1725-1733.	1.7	25
36	The role of Wnt signaling in skin fibrosis. Medicinal Research Reviews, 2022, 42, 615-628.	5.0	23

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37	Evaluation of Sterilisation Techniques for Regenerative Medicine Scaffolds Fabricated with Polyurethane Nonbiodegradable and Bioabsorbable Nanocomposite Materials. International Journal of Biomaterials, 2018, 2018, 1-14.	1.1	22
38	An update on the Application of Nanotechnology in Bone Tissue Engineering. The Open Orthopaedics Journal, 2016, 10, 836-848.	0.1	22
39	Argon plasma modification promotes adipose derived stem cells osteogenic and chondrogenic differentiation on nanocomposite polyurethane scaffolds; implications for skeletal tissue engineering. Materials Science and Engineering C, 2019, 105, 110085.	3.8	20
40	Evaluation of the efficacy of lipotransfer to manage radiationâ€induced fibrosis and volume defects in head and neck oncology. Head and Neck, 2019, 41, 3647-3655.	0.9	19
41	Robotic Surgery: A Novel Approach for Breast Surgery and Reconstruction. Plastic and Reconstructive Surgery - Global Open, 2020, 8, e2578.	0.3	18
42	Mechanical Strain Drives Myeloid Cell Differentiation Toward Proinflammatory Subpopulations. Advances in Wound Care, 2022, 11, 466-478.	2.6	17
43	Argon plasma surface modification promotes the therapeutic angiogenesis and tissue formation of tissue-engineered scaffolds in vivo by adipose-derived stem cells. Stem Cell Research and Therapy, 2019, 10, 110.	2.4	16
44	Optimisation of botulinum toxin type a treatment for the management of Raynaudâ€™s phenomenon using a dorsal approach: a prospective case series. Clinical Rheumatology, 2019, 38, 3669-3676.	1.0	15
45	Comparison of the compressive mechanical properties of auricular and costal cartilage from patients with microtia. Journal of Biomechanics, 2020, 103, 109688.	0.9	15
46	Striae Distensae: Scars without Wounds. Plastic and Reconstructive Surgery, 2021, 148, 77-87.	0.7	15
47	Nanoscale Surface Modifications of Orthopaedic Implants: State of the Art and Perspectives. The Open Orthopaedics Journal, 2016, 10, 920-938.	0.1	14
48	Optimizing the decellularization process of an upper limb skeletal muscle; implications for muscle tissue engineering. Artificial Organs, 2020, 44, 178-183.	1.0	13
49	Exosomes: A Tool for Bone Tissue Engineering. Tissue Engineering - Part B: Reviews, 2022, 28, 101-113.	2.5	13
50	Decellularized Adipose Matrices Can Alleviate Radiation-Induced Skin Fibrosis. Advances in Wound Care, 2022, 11, 524-536.	2.6	13
51	Three-dimensional Printing of Models of Cleft Lip and Palate. Plastic and Reconstructive Surgery - Global Open, 2016, 4, e689.	0.3	12
52	Argon plasma modified nanocomposite polyurethane scaffolds provide an alternative strategy for cartilage tissue engineering. Journal of Nanobiotechnology, 2019, 17, 51.	4.2	12
53	Angiogenic CD34+CD146+ adiposeâ€derived stromal cells augment recovery of soft tissue after radiotherapy. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 1105-1117.	1.3	11
54	Morphometric characterisation of human tracheas: focus on cartilaginous ring variation. BMC Research Notes, 2018, 11, 32.	0.6	10

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55	Sidestream Dark Field (SDF) imaging of oral microcirculation in the assessment of systemic sclerosis. Microvascular Research, 2019, 126, 103890.	1.1	10
56	Understanding Scarring in the Oral Mucosa. Advances in Wound Care, 2022, 11, 537-547.	2.6	10
57	A comparative analysis of deferoxamine treatment modalities for dermal radiationâ€induced fibrosis. Journal of Cellular and Molecular Medicine, 2021, 25, 10028-10038.	1.6	10
58	Beyond the Scar: A Basic Science Review of Wound Remodeling. Advances in Wound Care, 2023, 12, 57-67.	2.6	10
59	Readability of Online Patient Information Relating to Cleft Palate Surgery. Cleft Palate-Craniofacial Journal, 2022, 59, 330-335.	0.5	8
60	Standardizing Dimensionless Cutometer Parameters to Determine In Vivo Elasticity of Human Skin. Advances in Wound Care, 2022, 11, 297-310.	2.6	8
61	Fat Grafts Augmented With Vitamin E Improve Volume Retention and Radiation-Induced Fibrosis. Aesthetic Surgery Journal, 2022, 42, 946-955.	0.9	8
62	Optimizing the decellularization process of human maxillofacial muscles for facial reconstruction using a detergentâ€only approach. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1571-1580.	1.3	7
63	The novel use of botulinum toxin A for the treatment of Raynaudâ€™s phenomenon in the toes. BMJ Case Reports, 2018, 2018, bcr-2017-219348.	0.2	6
64	Long-Term Outcomes following Pediatric Peripheral Nerve Injury Repair. Journal of Hand and Microsurgery, 2020, 12, 27-31.	0.1	5
65	Fat Hypertrophy as a Complication of Fat Transfer for Hemifacial Atrophy. Aesthetic Surgery Journal, 2019, 40, NP123-NP130.	0.9	4
66	Feasibility study of stem-cell enriched autologous lipotransfer to treat oro-facial fibrosis in systemic sclerosis (Sys-Stem): Protocol for open-label randomised controlled trial. International Journal of Surgery Protocols, 2020, 23, 6-10.	0.5	4
67	The Adrenergic System in Plastic and Reconstructive Surgery. Annals of Plastic Surgery, 2021, 87, e62-e70.	0.5	4
68	Exploring the Overlooked Roles and Mechanisms of Fibroblasts in the Foreign Body Response. Advances in Wound Care, 2023, 12, 85-96.	2.6	4
69	Slow chlorine releasing compounds: A viable sterilisation method for bioabsorbable nanocomposite biomaterials. Journal of Biomaterials Applications, 2016, 30, 1114-1124.	1.2	3
70	A Novel Xenograft Model Demonstrates Human Fibroblast Behavior During Skin Wound Repair and Fibrosis. Advances in Wound Care, 2022, 11, 455-465.	2.6	3
71	Bennettâ€™s Fracture Repairâ€"Which Method Results in the Best Functional Outcome? A Retrospective Cohort Analysis and Systematic Literature Review of Patient-Reported Functional Outcomes. Journal of Hand and Microsurgery, 2021, 13, 081-088.	0.1	3
72	Impact of Incision Placement on Ischemic Complications in Microsurgical Breast Reconstruction. Plastic and Reconstructive Surgery, 2022, 149, 316-322.	0.7	3

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73	Autologous lipotransfer can improve the outcomes of localised scleroderma. Clinical and Experimental Rheumatology, 2021, 39, 159-159.	0.4	3
74	The implications of cosmetic tourism on tertiary plastic surgery services; The need for a national reporting database. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2019, 72, 1219-1243.	0.5	2
75	Lipotransfer provides effective soft tissue replacement for acquired partial lipodystrophy. BMJ Case Reports, 2020, 13, e232601.	0.2	2
76	An Invited Commentary on: Emergency and essential surgical healthcare services during COVID-19 in low- and middle-income countries: A perspective. International Journal of Surgery, 2020, 79, 265-266.	1.1	2
77	The use of MolecuLight i:X device in acute hand trauma. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2020, 73, 1357-1404.	0.5	2
78	Tension offloading improves cutaneous scar formation in Achilles tendon repair. Journal of Surgical Case Reports, 2022, 2022, rjac066.	0.2	2
79	An Invited Commentary: International surgical guidance for COVID-19: Validation using an international Delphi process. International Journal of Surgery, 2020, 80, 41-42.	1.1	1
80	Autologous Fat Grafting Provides Good Outcomes as a Soft-Tissue Replacement in Hemifacial Atrophy. Aesthetic Surgery Journal, 2020, 40, NP103-NP105.	0.9	1
81	Laser speckle contrast imaging to assess peri-oral microcirculation in systemic sclerosis. Clinical and Experimental Rheumatology, 2020, 38 Suppl 125, 183.	0.4	1
82	Autologous lipotransfer can improve the outcomes of localised scleroderma. Clinical and Experimental Rheumatology, 2021, 39 Suppl 131, 159.	0.4	1
83	Oro-facial fibrosis in systemic sclerosis: a reconstructive journey. BMJ Case Reports, 2020, 13, e236663.	0.2	0
84	Harnessing a Feasible and Versatile ex vivo Calvarial Suture 2-D Culture System to Study Suture Biology. Frontiers in Physiology, 2022, 13, 823661.	1.3	0
85	Developing a quantitative tool to evaluate dermal fibrosis in systemic sclerosis patients: a case-control study. Clinical and Experimental Rheumatology, 2020, 38 Suppl 125, 172-173.	0.4	0
86	Autologous fat grafting for plantar fat-pad atrophy in systemic sclerosis. Clinical and Experimental Rheumatology, 2020, 38 Suppl 125, 180.	0.4	0
87	Comparison of non-invasive methodologies to assess mouth opening following lipotransfer techniques to reverse oral fibrosis. Clinical and Experimental Rheumatology, 2020, 38 Suppl 125, 184.	0.4	0
88	Can online social medium forums offer an easier strategy to implement patient and public involvement?. Clinical and Experimental Rheumatology, 2021, 39 Suppl 128, 17-18.	0.4	0