

# Guillermo A Ameer

## List of Publications by Year in descending order

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118  
papers

10,655  
citations

66343

42  
h-index

33894

99  
g-index

122  
all docs

122  
docs citations

122  
times ranked

14722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Relevance of Pre-Existing and Treatment-Induced Anti-Poly(Ethylene Glycol) Antibodies. <i>Regenerative Engineering and Translational Medicine</i> , 2022, 8, 32-42.	2.9	35
2	Reversibly immortalized keratinocytes (iKera) facilitate re-epithelization and skin wound healing: Potential applications in cell-based skin tissue engineering. <i>Bioactive Materials</i> , 2022, 9, 523-540.	15.6	24
3	Subcutaneous nanotherapy repurposes the immunosuppressive mechanism of rapamycin to enhance allogeneic islet graft viability. <i>Nature Nanotechnology</i> , 2022, 17, 319-330.	31.5	37
4	3D-Printed Electroactive Hydrogel Architectures with Sub-100-µm Resolution Promote Myoblast Viability. <i>Macromolecular Bioscience</i> , 2022, 22, .	4.1	9
5	Azo polymerization of citrate-based biomaterial-ceramic composites at physiological temperatures. <i>Nano Select</i> , 2022, 3, 1421-1435.	3.7	1
6	209.8: Subcutaneous Nanotherapy Repurposes the Immunosuppressive Mechanism of Rapamycin to Enhance Allogeneic Islet Graft Viability. <i>Transplantation</i> , 2021, 105, S17-S17.	1.0	0
7	Understanding and Harnessing Variability in Regenerative Engineering. <i>Regenerative Engineering and Translational Medicine</i> , 2020, 6, 429-432.	2.9	9
8	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. <i>Nature Communications</i> , 2020, 11, 5990.	12.8	144
9	Cyclodextrin-modified poly(octamethylene citrate) polymers towards enhanced sorption properties. <i>Soft Matter</i> , 2020, 16, 3311-3318.	2.7	9
10	Flexible, wearable microfluidic contact lens with capillary networks for tear diagnostics. <i>Journal of Materials Science</i> , 2020, 55, 9551-9561.	3.7	34
11	Conducting Polymers for Tissue Regeneration <i>in Vivo</i> . <i>Chemistry of Materials</i> , 2020, 32, 4095-4115.	6.7	49
12	Stem cell therapy for chronic skin wounds in the era of personalized medicine: From bench to bedside. <i>Genes and Diseases</i> , 2019, 6, 342-358.	3.4	42
13	The wonders of BMP9: From mesenchymal stem cell differentiation, angiogenesis, neurogenesis, tumorigenesis, and metabolism to regenerative medicine. <i>Genes and Diseases</i> , 2019, 6, 201-223.	3.4	71
14	Polymer-integrated amnion scaffold significantly improves cleft palate repair. <i>Acta Biomaterialia</i> , 2019, 92, 104-114.	8.3	23
15	Advanced Functional Biomaterials for Stem Cell Delivery in Regenerative Engineering and Medicine. <i>Advanced Functional Materials</i> , 2019, 29, 1809009.	14.9	58
16	Multimodal interference-based imaging of nanoscale structure and macromolecular motion uncovers UV induced cellular paroxysm. <i>Nature Communications</i> , 2019, 10, 1652.	12.8	16
17	Imiquimod Acts Synergistically with BMP9 through the Notch Pathway as an Osteoinductive Agent In Vitro. <i>Plastic and Reconstructive Surgery</i> , 2019, 144, 1094-1103.	1.4	2
18	Bone Morphogenetic Protein-9 Stimulated Adipocyte-Derived Mesenchymal Progenitors Entrapped in a Thermoresponsive Nanocomposite Scaffold Facilitate Cranial Defect Repair. <i>Journal of Craniofacial Surgery</i> , 2019, 30, 1915-1919.	0.7	11

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19	Three-dimensional piezoelectric polymer microsystems for vibrational energy harvesting, robotic interfaces and biomedical implants. <i>Nature Electronics</i> , 2019, 2, 26-35.	26.0	322
20	Inhibiting intimal hyperplasia in prosthetic vascular grafts via immobilized all-trans retinoic acid. <i>Journal of Controlled Release</i> , 2018, 274, 69-80.	9.9	16
21	A thermoresponsive, citrate-based macromolecule for bone regenerative engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1743-1752.	4.0	14
22	Copper Metal-Organic Framework Nanoparticles Stabilized with Folic Acid Improve Wound Healing in Diabetes. <i>ACS Nano</i> , 2018, 12, 1023-1032.	14.6	282
23	High-speed on-demand 3D printed bioresorbable vascular scaffolds. <i>Materials Today Chemistry</i> , 2018, 7, 25-34.	3.5	50
24	Single capillary oximetry and tissue ultrastructural sensing by dual-band dual-scan inverse spectroscopic optical coherence tomography. <i>Light: Science and Applications</i> , 2018, 7, 57.	16.6	20
25	Potent laminin-inspired antioxidant regenerative dressing accelerates wound healing in diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6816-6821.	7.1	117
26	Thermoresponsive Citrate-Based Graphene Oxide Scaffold Enhances Bone Regeneration from BMP9-Stimulated Adipose-Derived Mesenchymal Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2943-2955.	5.2	52
27	A biodegradable tri-component graft for anterior cruciate ligament reconstruction. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 704-712.	2.7	29
28	A Tailorable In Situ Light-Activated Biodegradable Vascular Scaffold. <i>Advanced Materials Technologies</i> , 2017, 2, 1600243.	5.8	4
29	Process development for high-resolution 3D-printing of bioresorbable vascular stents. <i>Proceedings of SPIE</i> , 2017, , .	0.8	7
30	Assessment of an engineered endothelium via single-photon emission computed tomography. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2371-2378.	3.3	5
31	Notch Signaling Augments BMP9-Induced Bone Formation by Promoting the Osteogenesis-Angiogenesis Coupling Process in Mesenchymal Stem Cells (MSCs). <i>Cellular Physiology and Biochemistry</i> , 2017, 41, 1905-1923.	1.6	1,939
32	Neural EGF-like protein 1 (NELL-1): Signaling crosstalk in mesenchymal stem cells and applications in regenerative medicine. <i>Genes and Diseases</i> , 2017, 4, 127-137.	3.4	22
33	Vascular scaffolds with enhanced antioxidant activity inhibit graft calcification. <i>Biomaterials</i> , 2017, 144, 166-175.	11.4	41
34	Structural behavior of competitive temperature and pH-responsive tethered polymer layers. <i>Soft Matter</i> , 2017, 13, 6322-6331.	2.7	6
35	3D-printed bioresorbable vascular scaffolds: an important step towards personalizing vascular medical devices?. <i>Expert Review of Precision Medicine and Drug Development</i> , 2017, 2, 145-146.	0.7	0
36	Fabrication Speed Optimization for High-resolution 3D-printing of Bioresorbable Vascular Scaffolds. <i>Procedia CIRP</i> , 2017, 65, 131-138.	1.9	14

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37	3-D bioprinting technologies in tissue engineering and regenerative medicine: Current and future trends. <i>Genes and Diseases</i> , 2017, 4, 185-195.	3.4	452
38	A Cooperative Copper Metal-Organic Framework-Hydrogel System Improves Wound Healing in Diabetes. <i>Advanced Functional Materials</i> , 2017, 27, 1604872.	14.9	280
39	Repair of critical sized cranial defects with BMP9-transduced calvarial cells delivered in a thermoresponsive scaffold. <i>PLoS ONE</i> , 2017, 12, e0172327.	2.5	32
40	A thermoresponsive polydiolcitrate-gelatin scaffold and delivery system mediates effective bone formation from BMP9-transduced mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 025021.	3.3	59
41	3D-Printing Strong High-Resolution Antioxidant Bioresorbable Vascular Stents. <i>Advanced Materials Technologies</i> , 2016, 1, 1600138.	5.8	138
42	Sustained release of stromal cell derived factor-1 from an antioxidant thermoresponsive hydrogel enhances dermal wound healing in diabetes. <i>Journal of Controlled Release</i> , 2016, 238, 114-122.	9.9	105
43	Antioxidant Polymers as Biomaterial. , 2016, , 251-296.		21
44	Tissue Engineering: Mechanocompatible Polymer-Extracellular-Matrix Composites for Vascular Tissue Engineering ( <i>Adv. Healthcare Mater.</i> 13/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 1593-1593.	7.6	1
45	Targeting Heparin to Collagen within Extracellular Matrix Significantly Reduces Thrombogenicity and Improves Endothelialization of Decellularized Tissues. <i>Biomacromolecules</i> , 2016, 17, 3940-3948.	5.4	44
46	Mechanocompatible Polymer-Extracellular-Matrix Composites for Vascular Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016, 5, 1594-1605.	7.6	17
47	Biodegradable Elastomers with Antioxidant and Retinoid-like Properties. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 268-277.	5.2	17
48	Stem cells, growth factors and scaffolds in craniofacial regenerative medicine. <i>Genes and Diseases</i> , 2016, 3, 56-71.	3.4	93
49	Bone morphogenetic protein 9 (BMP9) induces effective bone formation from reversibly immortalized multipotent adipose-derived (iMAD) mesenchymal stem cells. <i>American Journal of Translational Research (discontinued)</i> , 2016, 8, 3710-3730.	0.0	39
50	Diazoniumdiolation of protamine sulfate reverses mitogenic effects on smooth muscle cells and fibroblasts. <i>Free Radical Biology and Medicine</i> , 2015, 82, 13-21.	2.9	3
51	Citrate-Based Biomaterials and Their Applications in Regenerative Engineering. <i>Annual Review of Materials Research</i> , 2015, 45, 277-310.	9.3	103
52	A polymer-extracellular matrix composite with improved thromboresistance and recellularization properties. <i>Acta Biomaterialia</i> , 2015, 18, 50-58.	8.3	30
53	Biodegradable Elastomers and Silicon Nanomembranes/Nanoribbons for Stretchable, Transient Electronics, and Biosensors. <i>Nano Letters</i> , 2015, 15, 2801-2808.	9.1	281
54	SIRT1 Overexpression Maintains Cell Phenotype and Function of Endothelial Cells Derived from Induced Pluripotent Stem Cells. <i>Stem Cells and Development</i> , 2015, 24, 2740-2745.	2.1	16

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55	Enabling non-invasive assessment of an engineered endothelium on ePTFE vascular grafts without increasing oxidative stress. <i>Biomaterials</i> , 2015, 69, 110-120.	11.4	20
56	Bone morphogenetic protein-9 effectively induces osteogenic differentiation of reversibly immortalized calvarial mesenchymal progenitor cells. <i>Genes and Diseases</i> , 2015, 2, 268-275.	3.4	5
57	Biomimetic approaches to complex craniofacial defects. <i>Annals of Maxillofacial Surgery</i> , 2015, 5, 4.	0.7	28
58	Periadventitial atRA citrate-based polyester membranes reduce neointimal hyperplasia and restenosis after carotid injury in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1419-H1429.	3.2	19
59	A Receptor-Based Bioadsorbent to Target Advanced Glycation End Products in Chronic Kidney Disease. <i>Artificial Organs</i> , 2014, 38, 474-483.	1.9	12
60	Impact of serum source and inflammatory cytokines on the isolation of endothelial colony-forming cells from peripheral blood. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 747-756.	2.7	15
61	A Thermoresponsive Biodegradable Polymer with Intrinsic Antioxidant Properties. <i>Biomacromolecules</i> , 2014, 15, 3942-3952.	5.4	95
62	Albumin Hydrogels Formed by Electrostatically Triggered Self-Assembly and Their Drug Delivery Capability. <i>Biomacromolecules</i> , 2014, 15, 3625-3633.	5.4	65
63	Advanced nanocomposites for bone regeneration. <i>Biomaterials Science</i> , 2014, 2, 1355.	5.4	17
64	Engineering biodegradable polyester elastomers with antioxidant properties to attenuate oxidative stress in tissues. <i>Biomaterials</i> , 2014, 35, 8113-8122.	11.4	94
65	Photo-crosslinked biodegradable elastomers for controlled nitric oxide delivery. <i>Biomaterials Science</i> , 2013, 1, 625.	5.4	27
66	The blood and vascular cell compatibility of heparin-modified ePTFE vascular grafts. <i>Biomaterials</i> , 2013, 34, 30-41.	11.4	240
67	Cotransplantation with specific populations of spina bifida bone marrow stem/progenitor cells enhances urinary bladder regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4003-4008.	7.1	68
68	Sustained, localized transgene expression mediated from lentivirus-loaded biodegradable polyester elastomers. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1328-1335.	4.0	11
69	Low-Pressure Foaming: A Novel Method for the Fabrication of Porous Scaffolds for Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 113-121.	2.1	28
70	Recent Insights Into the Biomedical Applications of Shape-Memory Polymers. <i>Macromolecular Bioscience</i> , 2012, 12, 1156-1171.	4.1	136
71	Growth factor release from a chemically modified elastomeric poly(1,8-octanediol-co-citrate) thin film promotes angiogenesis <i>in vivo</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 561-570.	4.0	26
72	Polymer-Based Nitric Oxide Therapies: Recent Insights for Biomedical Applications. <i>Advanced Functional Materials</i> , 2012, 22, 239-260.	14.9	155

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73	Antioxidants modulate the antiproliferative effects of nitric oxide on vascular smooth muscle cells and adventitial fibroblasts by regulating oxidative stress. <i>American Journal of Surgery</i> , 2011, 202, 536-540.	1.8	11
74	Effect of bilateral oophorectomy on wound healing of the rabbit vagina. <i>Fertility and Sterility</i> , 2011, 95, 1467-1470.	1.0	12
75	Biohybrid Strategies for Vascular Grafts. , 2011, , 279-316.		3
76	The role of hydroxyapatite in citric acid-based nanocomposites: Surface characteristics, degradation, and osteogenicity in vitro. <i>Acta Biomaterialia</i> , 2011, 7, 4057-4063.	8.3	39
77	Long-term in vivo response to citric acid-based nanocomposites for orthopaedic tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2131-2138.	3.6	23
78	Poly(diols-co-citrate)s as Novel Elastomeric Perivascular Wraps for the Reduction of Neointimal Hyperplasia. <i>Macromolecular Bioscience</i> , 2011, 11, 700-709.	4.1	29
79	Novel Biodegradable Shape-Memory Elastomers with Drug-Releasing Capabilities. <i>Advanced Materials</i> , 2011, 23, 2211-2215.	21.0	134
80	Shape-Memory Polymers: Novel Biodegradable Shape-Memory Elastomers with Drug-Releasing Capabilities ( <i>Adv. Mater.</i> 19/2011). <i>Advanced Materials</i> , 2011, 23, 2210-2210.	21.0	2
81	Early tissue response to citric acid-based micro- and nanocomposites. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 29-37.	4.0	33
82	Biodegradable nitric oxide-releasing poly(diols citrate) elastomers. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 356-363.	4.0	21
83	Citric acid-based elastomers provide a biocompatible interface for vascular grafts. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 314-324.	4.0	31
84	Toward Engineering a Human Neendothelium with Circulating Progenitor Cells. <i>Stem Cells</i> , 2010, 28, 318-328.	3.2	52
85	Urinary bladder smooth muscle regeneration utilizing bone marrow derived mesenchymal stem cell seeded elastomeric poly(1,8-octanediol-co-citrate) based thin films. <i>Biomaterials</i> , 2010, 31, 6207-6217.	11.4	129
86	Advances and Applications of Biodegradable Elastomers in Regenerative Medicine. <i>Advanced Functional Materials</i> , 2010, 20, 192-208.	14.9	168
87	Nanocomposites for Regenerative Medicine. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010, , 175-206.	0.5	0
88	Nanoporous Biodegradable Elastomers. <i>Advanced Materials</i> , 2009, 21, 188-192.	21.0	36
89	Biomedical Materials: Nanoporous Biodegradable Elastomers ( <i>Adv. Mater.</i> 2/2009). <i>Advanced Materials</i> , 2009, 21, NA-NA.	21.0	0
90	Modulating the mechanical properties of poly(diols citrates) via the incorporation of a second type of crosslink network. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1464-1470.	2.6	26

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91	Sustained transgene expression via citric acid-based polyester elastomers. <i>Biomaterials</i> , 2009, 30, 2632-2641.	11.4	60
92	A new strategy to characterize the extent of reaction of thermoset elastomers. <i>Journal of Polymer Science Part A</i> , 2008, 46, 1318-1328.	2.3	15
93	The role of nanocomposites in bone regeneration. <i>Journal of Materials Chemistry</i> , 2008, 18, 4233.	6.7	82
94	Characterization of Porcine Circulating Progenitor Cells: Toward a Functional Endothelium. <i>Tissue Engineering - Part A</i> , 2008, 14, 183-194.	3.1	32
95	Characterization of Porcine Circulating Progenitor Cells: Toward a Functional Endothelium. <i>Tissue Engineering</i> , 2008, 14, 183-194.	4.6	11
96	Biodegradable poly(diols citrate) nanocomposite elastomers for soft tissue engineering. <i>Journal of Materials Chemistry</i> , 2007, 17, 900-906.	6.7	41
97	Hemocompatibility evaluation of poly(diols citrate) in vitro for vascular tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 907-916.	4.0	117
98	A biodegradable vascularizing membrane: A feasibility study. <i>Acta Biomaterialia</i> , 2007, 3, 631-642.	8.3	17
99	In Vitro Characterization of a Compliant Biodegradable Scaffold with a Novel Bioreactor System. <i>Annals of Biomedical Engineering</i> , 2007, 35, 1357-1367.	2.5	32
100	Spectroscopic translation of cell-material interactions. <i>Biomaterials</i> , 2007, 28, 162-174.	11.4	7
101	Synthesis and evaluation of poly(diols citrate) biodegradable elastomers. <i>Biomaterials</i> , 2006, 27, 1889-1898.	11.4	346
102	A citric acid-based hydroxyapatite composite for orthopedic implants. <i>Biomaterials</i> , 2006, 27, 5845-5854.	11.4	184
103	Hemocompatibility evaluation of poly(glycerol-sebacate) in vitro for vascular tissue engineering. <i>Biomaterials</i> , 2006, 27, 4315-4324.	11.4	335
104	Biomechanical characterization of vaginal versus abdominal surgical wound healing in the rabbit. <i>American Journal of Obstetrics and Gynecology</i> , 2006, 194, 1472-1477.	1.3	15
105	Mechanical Interlocking of Engineered Cartilage to an Underlying Polymeric Substrate: Towards a Biohybrid Tissue Equivalent. <i>Annals of Biomedical Engineering</i> , 2006, 34, 737-747.	2.5	5
106	A new biodegradable polyester elastomer for cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 331-339.	4.0	121
107	Modulating Expanded Polytetrafluoroethylene Vascular Graft Host Response via Citric Acid-Based Biodegradable Elastomers. <i>Advanced Materials</i> , 2006, 18, 1493-1498.	21.0	88
108	Engineering sub-100 nm multi-layer nanoshells. <i>Nanotechnology</i> , 2006, 17, 5435-5440.	2.6	75

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109	Novel Biphasic Elastomeric Scaffold for Small-Diameter Blood Vessel Tissue Engineering. <i>Tissue Engineering</i> , 2005, 11, 1876-1886.	4.6	122
110	Assessment of the Stability of an Immunoabsorbent for the Extracorporeal Removal of Beta-2-Microglobulin from Blood. <i>Blood Purification</i> , 2005, 23, 287-297.	1.8	4
111	Biodegradable polyester elastomers in tissue engineering. <i>Expert Opinion on Biological Therapy</i> , 2004, 4, 801-812.	3.1	189
112	Single-chain antibody fragment-based adsorbent for the extracorporeal removal of $\beta_2$ -microglobulin. <i>Kidney International</i> , 2004, 65, 310-322.	5.2	15
113	Novel Citric Acid-Based Biodegradable Elastomers for Tissue Engineering. <i>Advanced Materials</i> , 2004, 16, 511-516.	21.0	499
114	A tough biodegradable elastomer. <i>Nature Biotechnology</i> , 2002, 20, 602-606.	17.5	1,136
115	A novel immunoabsorption device for removing $\beta_2$ -microglobulin from whole blood. <i>Kidney International</i> , 2001, 59, 1544-1550.	5.2	25
116	Modalities for the Removal of $\beta_2$ -Microglobulin from Blood. <i>Seminars in Dialysis</i> , 2001, 14, 103-106.	1.3	10
117	Cell-killing potential of a water-soluble radical initiator. <i>International Journal of Cancer</i> , 2001, 93, 875-879.	5.1	3
118	Modeling the mixing behavior of a novel fluidized extracorporeal immunoabsorber. <i>Chemical Engineering Science</i> , 2001, 56, 5437-5441.	3.8	9