

Mark A Carlson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	2,895 citations	24 h-index	53 g-index
83 ext. papers	3,406 ext. citations	5.7 avg, IF	5.24 L-index

#	Paper	IF	Citations
76	A prospective, randomized trial of laparoscopic polytetrafluoroethylene (PTFE) patch repair vs simple cruroplasty for large hiatal hernia. <i>Archives of Surgery</i> , 2002 , 137, 649-52		342
75	Release of mechanical tension triggers apoptosis of human fibroblasts in a model of regressing granulation tissue. <i>Experimental Cell Research</i> , 1999 , 248, 608-19	4.2	251
74	Recent advances in electrospun nanofibers for wound healing. <i>Nanomedicine</i> , 2017 , 12, 1335-1352	5.6	197
73	Complications and results of primary minimally invasive antireflux procedures: a review of 10,735 reported cases. <i>Journal of the American College of Surgeons</i> , 2001 , 193, 428-39	4.4	195
72	Association of a Frailty Screening Initiative With Postoperative Survival at 30, 180, and 365 Days. <i>JAMA Surgery</i> , 2017 , 152, 233-240	5.4	152
71	Acute wound failure. <i>Surgical Clinics of North America</i> , 1997 , 77, 607-36	4	147
70	Management of intrathoracic stomach with polypropylene mesh prosthesis reinforced transabdominal hiatus hernia repair. <i>Journal of the American College of Surgeons</i> , 1998 , 187, 227-30	4.4	146
69	Prosthetic closure of the esophageal hiatus in large hiatal hernia repair and laparoscopic antireflux surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2006 , 20, 367-79	5.2	133
68	Development and Initial Validation of the Risk Analysis Index for Measuring Frailty in Surgical Populations. <i>JAMA Surgery</i> , 2017 , 152, 175-182	5.4	127
67	The fibroblast-populated collagen matrix as a model of wound healing: a review of the evidence. <i>Wound Repair and Regeneration</i> , 2004 , 12, 134-47	3.6	123
66	Hiatal hernia repair with mesh: a survey of SAGES members. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2010 , 24, 1017-24	5.2	110
65	Expanded 3D Nanofiber Scaffolds: Cell Penetration, Neovascularization, and Host Response. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2993-3003	10.1	85
64	Ventral hernia and other complications of 1,000 midline incisions. <i>Southern Medical Journal</i> , 1995 , 88, 450-3	0.6	75
63	Fabrication of injectable and superelastic nanofiber rectangle matrices ("peanuts") and their potential applications in hemostasis. <i>Biomaterials</i> , 2018 , 179, 46-59	15.6	55
62	Wound splinting regulates granulation tissue survival. <i>Journal of Surgical Research</i> , 2003 , 110, 304-9	2.5	53
61	CO-expanded nanofiber scaffolds maintain activity of encapsulated bioactive materials and promote cellular infiltration and positive host response. <i>Acta Biomaterialia</i> , 2018 , 68, 237-248	10.8	47
60	Short-term hypoxic preconditioning promotes prevascularization in 3D bioprinted bone constructs with stromal vascular fraction derived cells. <i>RSC Advances</i> , 2017 , 7, 29312-29320	3.7	42

59	Prophylactic antibiotics in surgery. <i>Annual Review of Medicine</i> , 1993 , 44, 385-93	17.4	41
58	Minimally invasive ventral herniorrhaphy: an analysis of 6,266 published cases. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2008 , 12, 9-22	3.2	40
57	Twisting electrospun nanofiber fine strips into functional sutures for sustained co-delivery of gentamicin and silver. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 1435-1445	6	39
56	Three-Dimensional Objects Consisting of Hierarchically Assembled Nanofibers with Controlled Alignments for Regenerative Medicine. <i>Nano Letters</i> , 2019 , 19, 2059-2065	11.5	36
55	Minimally invasive incisional herniorrhaphy: a review of 208 cases. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2004 , 18, 1488-91	5.2	28
54	Enterocutaneous fistula associated with ePTFE mesh: case report and review of the literature. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2009 , 13, 323-6	3.2	27
53	Incidence, etiology, management, and outcomes of flank hernia: review of published data. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2018 , 22, 353-361	3.2	26
52	A totally recombinant human fibrin sealant. <i>Journal of Surgical Research</i> , 2014 , 187, 334-42	2.5	24
51	Modeling dermal granulation tissue with the linear fibroblast-populated collagen matrix: a comparison with the round matrix model. <i>Journal of Dermatological Science</i> , 2006 , 41, 97-108	4.3	21
50	Porcine Models of Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2019 , 9, 144	5.3	20
49	Recombinant human fibrinogen that produces thick fibrin fibers with increased wound adhesion and clot density. <i>Biomacromolecules</i> , 2013 , 14, 169-78	6.9	19
48	Modulation of FAK, Akt, and p53 by stress release of the fibroblast-populated collagen matrix. <i>Journal of Surgical Research</i> , 2004 , 120, 171-7	2.5	19
47	Three-dimensional nanofiber scaffolds with arrayed holes for engineering skin tissue constructs. <i>MRS Communications</i> , 2017 , 7, 361-366	2.7	17
46	Fast transformation of 2D nanofiber membranes into pre-molded 3D scaffolds with biomimetic and oriented porous structure for biomedical applications. <i>Applied Physics Reviews</i> , 2020 , 7, 021406	17.3	16
45	Expression of green fluorescent protein in human foreskin fibroblasts for use in 2D and 3D culture models. <i>Wound Repair and Regeneration</i> , 2014 , 22, 134-40	3.6	14
44	MCPIP1 Regulates Fibroblast Migration in 3-D Collagen Matrices Downstream of MAP Kinases and NF- κ B. <i>Journal of Investigative Dermatology</i> , 2015 , 135, 2944-2954	4.3	13
43	Novel fibrin-fibronectin matrix accelerates mice skin wound healing. <i>Bioactive Materials</i> , 2020 , 5, 949-962	6.7	13
42	Wound splinting modulates granulation tissue proliferation. <i>Matrix Biology</i> , 2004 , 23, 243-50	11.4	13

41	125-dihydroxyvitamin D-eluting nanofibrous dressings induce endogenous antimicrobial peptide expression. <i>Nanomedicine</i> , 2018 , 13, 1417-1432	5.6	13
40	Nanofiber-based sutures induce endogenous antimicrobial peptide. <i>Nanomedicine</i> , 2017 , 12, 2597-2609	5.6	12
39	Granulation tissue regression induced by musculocutaneous advancement flap coverage. <i>Surgery</i> , 2002 , 131, 332-7	3.6	12
38	RNA interference in human foreskin fibroblasts within the three-dimensional collagen matrix. <i>Molecular and Cellular Biochemistry</i> , 2007 , 306, 123-32	4.2	11
37	Technical note: assay of cell quantity in the fibroblast-populated collagen matrix with a tetrazolium reagent. <i>European Cells and Materials</i> , 2006 , 12, 44-8	4.3	11
36	Ultra-absorptive Nanofiber Swabs for Improved Collection and Test Sensitivity of SARS-CoV-2 and other Biological Specimens. <i>Nano Letters</i> , 2021 , 21, 1508-1516	11.5	9
35	Attachment-regulated signaling networks in the fibroblast-populated 3D collagen matrix. <i>Scientific Reports</i> , 2013 , 3, 1880	4.9	8
34	Integrated generation of induced pluripotent stem cells in a low-cost device. <i>Biomaterials</i> , 2019 , 189, 23-36	15.6	8
33	Tensile properties of the murine ventral vertical midline incision. <i>PLoS ONE</i> , 2011 , 6, e24212	3.7	7
32	Minimally Invasive Delivery of 3D Shape Recoverable Constructs with Ordered Structures for Tissue Repair. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2204-2211	5.5	7
31	Collateral Development and Arteriogenesis in Hindlimbs of Swine After Ligation of Arterial Inflow. <i>Journal of Surgical Research</i> , 2020 , 249, 168-179	2.5	6
30	A totally recombinant fibrin matrix for mesenchymal stem cell culture and delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 3135-3142	5.4	6
29	Bioengineering strategies for the treatment of peripheral arterial disease. <i>Bioactive Materials</i> , 2021 , 6, 684-696	16.7	6
28	Biologic variability of human foreskin fibroblasts in 2D and 3D culture: implications for a wound healing model. <i>BMC Research Notes</i> , 2009 , 2, 229	2.3	5
27	Technique for the insertion of large mesh during minimally invasive incisional herniorrhaphy. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2007 , 21, 1243-4	5.2	5
26	Electrostatic Flocking of Insulative and Biodegradable Polymer Microfibers for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100766	10.1	5
25	Development of a fatal noncompressible truncal hemorrhage model with combined hepatic and portal venous injury in normothermic normovolemic swine. <i>PLoS ONE</i> , 2014 , 9, e108293	3.7	4
24	Wound matrix attachment regulates actin content and organization in cells of the granulation tissue. <i>Wound Repair and Regeneration</i> , 2005 , 13, 84-92	3.6	4

23	Large Animal Models of Breast Cancer.. <i>Frontiers in Oncology</i> , 2022 , 12, 788038	5.3	4
22	Induction of pancreatic neoplasia in theKRAS/TP53Oncopig: preliminary report		4
21	Generation of tumorigenic porcine pancreatic ductal epithelial cells: toward a large animal model of pancreatic cancer		4
20	Large-scale synthesis of compressible and re-expandable three-dimensional nanofiber matrices. <i>Nano Select</i> , 2021 , 2, 1566-1579	3.1	4
19	Effect of proximal versus distal 50% enterectomy on nutritional parameters in rats preconditioned with a high-fat diet or regular chow. <i>Scientific Reports</i> , 2015 , 5, 17331	4.9	3
18	Research priorities in bariatric surgery: misplaced emphasis on innovation?. <i>Annals of Surgery</i> , 2015 , 261, e58-9	7.8	3
17	The isolation of a plasma-derived Fibrinogen: Fibronectin mixture that forms a novel polymeric matrix. <i>Process Biochemistry</i> , 2018 , 75, 257-265	4.8	3
16	Comment on "prospective randomized clinical trial comparing laparoscopic cholecystectomy and hybrid natural orifice transluminal endoscopic surgery (NOTES) (NCT00835250)" (doi:10.1007/s00464-012-2359-4). <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2013 , 27, 3929-30	5.2	2
15	Modulation of FAK, Akt, and p53 by stress release of the fibroblast-populated collagen matrix. <i>Journal of Surgical Research</i> , 2004 , 121, 151	2.5	2
14	Military Medicine Interest Groups in U.S. Medical Schools. <i>Military Medicine</i> , 2016 , 181, e1449-e1454	1.3	2
13	Fluid administration rate for uncontrolled intraabdominal hemorrhage in swine. <i>PLoS ONE</i> , 2018 , 13, e0207708	3.7	2
12	A primary burn wound does not slow the contraction rate of an adjacent excisional wound. <i>Annals of Plastic Surgery</i> , 2001 , 46, 36-42	1.7	1
11	Porcine pancreatic ductal epithelial cells transformed with KRAS and SV40T are tumorigenic. <i>Scientific Reports</i> , 2021 , 11, 13436	4.9	1
10	Ectopic expression of KRASG12D and p53R167H in porcine mammary epithelial cells results in transformation and tumorigenesis		1
9	Porcine pancreatic ductal epithelial cells transformed with KRASG12D and SV40T are tumorigenic		1
8	Preclinical Evaluation of a Humanized, Near-Infrared Fluorescent Antibody for Fluorescence-Guided Surgery of MUC16-Expressing Pancreatic Cancer. <i>Molecular Pharmaceutics</i> ,	5.6	1
7	Isolating and cryopreserving pig skin cells for single-cell RNA sequencing study.. <i>PLoS ONE</i> , 2022 , 17, e0263869	3.7	0
6	Reply to Letter: "From Bariatric to Metabolic Surgery: New Concepts on the Rise". <i>Annals of Surgery</i> , 2015 , 262, e80	7.8	

5 Technical Pitfalls Favouring Incisional Hernia **2007**, 135-149

4 Reparaci3 laparosc3pica de la hernia ventral **2009**, 223-228

3 The effect of pre-resection obesity on post-resection body composition after 75% small bowel resection in rats. *Scientific Reports*, **2021**, 11, 13009 4.9

2 Cell Scaffolds: Expanded 3D Nanofiber Scaffolds: Cell Penetration, Neovascularization, and Host Response (Adv. Healthcare Mater. 23/2016). *Advanced Healthcare Materials*, **2016**, 5, 2962-2962 10.1

1 Preperitoneal insufflation pressure of the abdominal wall in a porcine model. *Surgical Endoscopy and Other Interventional Techniques*, **2021**, 1 5.2