James C Y Dunn

List of Publications by Year
in descending order

89 papers	2,049 citations	279798 23 h-index	289244 40 g-index
92 all docs	92 docs citations	92 times ranked	2444 citing authors

#	Article	IF	Citations
1	A tissue-like neurotransmitter sensor for the brain and gut. Nature, 2022, 606, 94-101.	27.8	162
2	Gastrointestinal Myoelectric Measurements viaÂSimultaneous External and Internal ElectrodesÂin Pigs. Journal of Surgical Research, 2022, 279, 119-126.	1.6	3
3	Surgical Treatment of Short Bowel Syndromeâ€"The Past, the Present and the Future, a Descriptive Review of the Literature. Children, 2022, 9, 1024.	1.5	5
4	Intestinal adaptation following spring insertion into a roux limb in mice. Journal of Pediatric Surgery, 2021, 56, 346-351.	1.6	8
5	Mesenteric neovascularization during spring-mediated intestinal lengthening. Journal of Pediatric Surgery, 2021, 56, 5-10.	1.6	4
6	Mechanical lengthening of porcine small intestine with decreased forces. Journal of Pediatric Surgery, 2021, 56, 1192-1198.	1.6	9
7	Initial Laparotomy Versus Peritoneal Drainage in Extremely Low Birthweight Infants With Surgical Necrotizing Enterocolitis or Isolated Intestinal Perforation. Annals of Surgery, 2021, 274, e370-e380.	4.2	62
8	Distraction enterogenesis in the murine colon. Journal of Pediatric Surgery, 2021, , .	1.6	4
9	Biomechanical signaling and collagen fiber reorientation during distraction enterogenesis. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103425.	3.1	11
10	Biomechanics of small intestine during distraction enterogenesis with an intraluminal spring. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103413.	3.1	10
11	Optimization of In-Continuity Spring-Mediated Intestinal Lengthening. Journal of Pediatric Surgery, 2020, 55, 158-163.	1.6	6
12	Autologous Transplantation of Skin-Derived Precursor Cells in a Porcine Model. Journal of Pediatric Surgery, 2020, 55, 194-200.	1.6	5
13	Biomechanical Force Prediction for Lengthening of Small Intestine during Distraction Enterogenesis. Bioengineering, 2020, 7, 140.	3.5	9
14	Irreversible Electroporation for De-epithelialization of Murine Small Intestine. Journal of Surgical Research, 2020, 256, 602-610.	1.6	2
15	The effect of colonic tissue electrical stimulation and celiac branch of the abdominal vagus nerve neuromodulation on colonic motility in anesthetized pigs. Neurogastroenterology and Motility, 2020, 32, e13925.	3.0	10
16	Tumescent Injections in Subcutaneous Pig Tissue Disperse Fluids Volumetrically and Maintain Elevated Local Concentrations of Additives for Several Hours, Suggesting a Treatment for Drug Resistant Wounds. Pharmaceutical Research, 2020, 37, 51.	3.5	5
17	Electroacupuncture to Increase Neuronal Stem Cell Growth. Medical Acupuncture, 2020, 32, 16-23.	0.6	5
18	Epigenetic Targeting of <i>TERT</i>-Associated Gene Expression Signature in Human Neuroblastoma with <i>TERT</i> Overexpression. Cancer Research, 2020, 80, 1024-1035.	0.9	11

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19	Human skin-derived precursor cells xenografted in aganglionic bowel. Journal of Pediatric Surgery, 2020, 55, 2791-2796.	1.6	4
20	The cellular regulators PTEN and BMI1 help mediate NEUROGENIN-3â€"induced cell cycle arrest. Journal of Biological Chemistry, 2019, 294, 15182-15192.	3.4	7
21	A Wireless Implantable System for Facilitating Gastrointestinal Motility. Micromachines, 2019, 10, 525.	2.9	6
22	Intestinal epithelial replacement by transplantation of cultured murine and human cells into the small intestine. PLoS ONE, 2019, 14, e0216326.	2.5	12
23	Delayed appearance of mature ganglia in an infant with an atypical presentation of total colonic and small bowel aganglionosis: a case report. BMC Pediatrics, 2019, 19, 93.	1.7	1
24	Intravenous Fish Oil and Serum Fatty Acid Profiles in Pediatric Patients With Intestinal Failureâ€"Associated Liver Disease. Journal of Parenteral and Enteral Nutrition, 2019, 43, 717-725.	2.6	9
25	Intestinal Electrical Stimulation to Increase the Rate of Peristalsis. Journal of Surgical Research, 2019, 236, 153-158.	1.6	7
26	Longâ€Term Outcomes in Children With Intestinal Failureâ€"Associated Liver Disease Treated With 6 Months of Intravenous Fish Oil Followed by Resumption of Intravenous Soybean Oil. Journal of Parenteral and Enteral Nutrition, 2019, 43, 708-716.	2.6	22
27	Double plication for spring-mediated in-continuity intestinal lengthening in a porcine model. Surgery, 2019, 165, 389-392.	1.9	9
28	Intestinal lengthening via multiple in-continuity springs. Journal of Pediatric Surgery, 2019, 54, 39-43.	1.6	16
29	Cutaneous Patches to Monitor Myoelectric Activity of the Gastrointestinal Tract in Postoperative Pediatric Patients. Pediatric Gastroenterology, Hepatology and Nutrition, 2019, 22, 518.	1.2	2
30	Double plication for spring-mediated intestinal lengthening of a defunctionalized Roux limb. Journal of Pediatric Surgery, 2018, 53, 1806-1810.	1.6	9
31	Subcutaneous cefazolin to reduce surgical site infections in a porcine model. Journal of Surgical Research, 2018, 224, 156-159.	1.6	2
32	Mechanisms for intestinal regeneration. Current Opinion in Pediatrics, 2018, 30, 424-429.	2.0	9
33	Interstitial Matrix Prevents Therapeutic Ultrasound From Causing Inertial Cavitation in Tumescent Subcutaneous Tissue. Ultrasound in Medicine and Biology, 2018, 44, 177-186.	1.5	3
34	Fluid flow in tumescent subcutaneous tissue observed with 3D scanning: massage accelerates injection dispersal. Biomedical Physics and Engineering Express, 2018, 4, 045014.	1.2	1
35	Disrupting the LINC complex in smooth muscle cells reduces aortic disease in a mouse model of Hutchinson-Gilford progeria syndrome. Science Translational Medicine, 2018, 10, .	12.4	63
36	Bioengineering functional smooth muscle with spontaneous rhythmic contraction in vitro. Scientific Reports, 2018, 8, 13544.	3.3	18

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37	Bioengineered intestinal muscularis complexes with long-term spontaneous and periodic contractions. PLoS ONE, 2018, 13, e0195315.	2.5	14
38	A Wireless Implant for Gastrointestinal Motility Disorders. Micromachines, 2018, 9, 17.	2.9	21
39	Comparison of laparoscopic and open pediatric inguinal hernia repairs at two institutions. Pediatric Surgery International, 2018, 34, 1293-1298.	1.4	10
40	Three-dimensionally printed surface features to anchor endoluminal spring for distraction enterogenesis. PLoS ONE, 2018, 13, e0200529.	2.5	4
41	Mechanically induced development and maturation of human intestinal organoids in vivo. Nature Biomedical Engineering, 2018, 2, 429-442.	22.5	79
42	New Insights and Interventions for Short Bowel Syndrome. Current Pediatrics Reports, 2017, 5, 1-5.	4.0	10
43	Feasibility and scalability of spring parameters in distraction enterogenesis in a murine model. Journal of Surgical Research, 2017, 215, 219-224.	1.6	13
44	Concise Review: The Potential Use of Intestinal Stem Cells to Treat Patients with Intestinal Failure. Stem Cells Translational Medicine, 2017, 6, 666-676.	3.3	29
45	Development of Functional Microfold (M) Cells from Intestinal Stem Cells in Primary Human Enteroids. PLoS ONE, 2016, 11, e0148216.	2.5	78
46	A novel culture system for adult porcine intestinal crypts. Cell and Tissue Research, 2016, 365, 123-134.	2.9	56
47	Mechanical lengthening in multiple intestinal segments in-series. Journal of Pediatric Surgery, 2016, 51, 957-959.	1.6	15
48	Spring-mediated distraction enterogenesis in-continuity. Journal of Pediatric Surgery, 2016, 51, 1983-1987.	1.6	25
49	Scalability of an endoluminal spring for distraction enterogenesis. Journal of Pediatric Surgery, 2016, 51, 1988-1992.	1.6	20
50	Basic fibroblast growth factor eluting microspheres enhance distraction enterogenesis. Journal of Pediatric Surgery, 2016, 51, 960-965.	1.6	6
51	Long-term renewable human intestinal epithelial stem cells as monolayers: A potential for clinical use. Journal of Pediatric Surgery, 2016, 51, 995-1000.	1.6	34
52	Collagen and heparan sulfate coatings differentially alter cell proliferation and attachment in vitro and in vivo. Technology, 2016, 04, 159-169.	1.4	0
53	Mouse model of endoscopically ablated enteric nervous system. Journal of Surgical Research, 2016, 200, 117-121.	1.6	6
54	Intestinal Bioengineering. Clinical Transplants, 2016, 32, 1-4.	0.2	0

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55	Primary Myofibroblasts Maintain Short-Term Viability following Submucosal Injection in Syngeneic, Immune-Competent Mice Utilizing Murine Colonoscopy. PLoS ONE, 2015, 10, e0127258.	2.5	3
56	Orthogonally oriented scaffolds with aligned fibers for engineering intestinal smooth muscle. Biomaterials, 2015, 61, 75-84.	11.4	37
57	Repeated Mechanical Lengthening of Intestinal Segments in a Novel Model. Journal of Pediatric Surgery, 2015, 50, 954-957.	1.6	21
58	Global comparison of pediatric surgery workforce and training. Journal of Pediatric Surgery, 2015, 50, 1180-1183.	1.6	37
59	A novel method of esophageal lengthening in a large animal model of long gap esophageal atresia. Journal of Pediatric Surgery, 2015, 50, 928-932.	1.6	8
60	Pharmacologically blocking p53-dependent apoptosis protects intestinal stem cells and mice from radiation. Scientific Reports, 2015, 5, 8566.	3.3	63
61	Innovation in Pediatric Surgical Education for General Surgery Residents: A Mobile Web Resource. Journal of Surgical Education, 2015, 72, 1190-1194.	2.5	10
62	Intestinal Subepithelial Myofibroblasts Support the Growth of Intestinal Epithelial Stem Cells. PLoS ONE, 2014, 9, e84651.	2.5	91
63	Type I Collagen as an Extracellular Matrix for the In Vitro Growth of Human Small Intestinal Epithelium. PLoS ONE, 2014, 9, e107814.	2.5	98
64	Smooth Muscle Strips for Intestinal Tissue Engineering. PLoS ONE, 2014, 9, e114850.	2.5	19
65	Intestinal lengthening in an innovative rodent surgical model. Journal of Pediatric Surgery, 2014, 49, 1791-1794.	1.6	27
66	Skin-derived precursors generate enteric-type neurons in aganglionic jejunum. Journal of Pediatric Surgery, 2014, 49, 1809-1814.	1.6	7
67	Function of mechanically lengthened jejunum after restoration into continuity. Journal of Pediatric Surgery, 2014, 49, 971-975.	1.6	17
68	A novel biodegradable device for intestinal lengthening. Journal of Pediatric Surgery, 2014, 49, 109-113.	1.6	29
69	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. Biomaterials, 2014, 35, 5129-5137.	11.4	75
70	A durable model of Hirschsprungâ€™s colon. Journal of Pediatric Surgery, 2014, 49, 1804-1808.	1.6	5
71	A novel inÂvivo model of permanent intestinal aganglionosis. Journal of Surgical Research, 2014, 192, 27-33.	1.6	11
72	Transplanted skin-derived precursor stem cells generate enteric ganglion-like structures in vivo. Journal of Pediatric Surgery, 2014, 49, 1319-1325.	1.6	15

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73	Transplantation of Enteric Cells Expressing p75 in the Rodent Stomach. Journal of Surgical Research, 2012, 174, 257-265.	1.6	14
74	Transplantation of Enteric Cells into the Aganglionic Rodent Small Intestines. Journal of Surgical Research, 2012, 176, 20-28.	1.6	17
75	Development of an endoluminal intestinal lengthening capsule. Journal of Pediatric Surgery, 2012, 47, 136-141.	1.6	20
76	Restoration of mechanically lengthened jejunum into intestinal continuity in rats. Journal of Pediatric Surgery, 2011, 46, 2321-2326.	1.6	23
77	Intestinal Subepithelial Myofibroblasts Support in vitro and in vivo Growth of Human Small Intestinal Epithelium. PLoS ONE, 2011, 6, e26898.	2.5	149
78	The feasibility of using an endoluminal device for intestinal lengthening. Journal of Pediatric Surgery, 2010, 45, 1575-1580.	1.6	29
79	Benzalkonium chlorideâ€“treated anorectums mimicked endothelin-3â€“deficient aganglionic anorectums on manometry. Journal of Pediatric Surgery, 2010, 45, 2408-2411.	1.6	9
80	Intestinal lengthening in rats after massive small intestinal resection. Surgery, 2009, 146, 291-295.	1.9	22
81	Transplantation of Adrenal Cortical Progenitor Cells Enriched by Nile Red. Journal of Surgical Research, 2009, 156, 317-324.	1.6	11
82	Tissue Engineering and Regenerative Science in Pediatrics. Pediatric Research, 2008, 63, 459-460.	2.3	6
83	Is the tissue-engineered intestine clinically viable?. Nature Reviews Gastroenterology & Hepatology, 2008, 5, 366-367.	1.7	15
84	Increased expression of insulin-like growth factor in intestinal lengthening by mechanical force in rats. Journal of Pediatric Surgery, 2007, 42, 2057-2061.	1.6	12
85	Magnetically actuable polymer nanocomposites for bioengineering applications. Journal of Materials Science, 2007, 42, 6139-6147.	3.7	10
86	Distension enterogenesis: increasing the size and function of small intestine. Journal of Pediatric Surgery, 2006, 41, 763-767.	1.6	23
87	Analysis of Cell Growth in Three-Dimensional Scaffolds. Tissue Engineering, 2006, 12, 705-716.	4.6	98
88	Adrenal cortical cell transplantation. Journal of Pediatric Surgery, 2004, 39, 1856-1858.	1.6	15
89	Enterogenesis by mechanical lengthening: Morphology and function of the lengthened small intestine. Journal of Pediatric Surgery, 2004, 39, 1823-1827.	1.6	51