

TrÃ© R Welch

List of Publications by Year in descending order

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27
papers

262
citations

932766

10
h-index

940134

16
g-index

27
all docs

27
docs citations

27
times ranked

425
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly-L-lactic acid: Pellets to fiber to fused filament fabricated scaffolds, and scaffold weight loss study. Additive Manufacturing, 2017, 16, 167-176.	1.7	30
2	A novel design biodegradable stent for use in congenital heart disease: Mid-term results in rabbit descending aorta. Catheterization and Cardiovascular Interventions, 2015, 85, 629-639.	0.7	23
3	A novel biodegradable stent applicable for use in congenital heart disease: Bench testing and feasibility results in a rabbit model. Catheterization and Cardiovascular Interventions, 2014, 83, 448-456.	0.7	21
4	Influence of Thermal Annealing on the Mechanical Properties of PLLA Coiled Stents. Cardiovascular Engineering and Technology, 2014, 5, 270-280.	0.7	21
5	The influence of thermal treatment on the mechanical characteristics of a PLLA coiled stent. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 302-311.	1.6	20
6	Characterizing the Expansive Deformation of a Bioresorbable Polymer Fiber Stent. Annals of Biomedical Engineering, 2008, 36, 742-751.	1.3	19
7	Biodegradable Stents for Congenital Heart Disease. Interventional Cardiology Clinics, 2019, 8, 81-94.	0.2	17
8	Novel Bioresorbable Stent Design and Fabrication: Congenital Heart Disease Applications. Cardiovascular Engineering and Technology, 2013, 4, 171-182.	0.7	14
9	Paraffin processing of stented arteries using a postfixation dissolution of metallic and polymeric stents. Cardiovascular Pathology, 2016, 25, 483-488.	0.7	13
10	Mechanical Interaction of an Expanding Coiled Stent with a Plaque-Containing Arterial Wall: A Finite Element Analysis. Cardiovascular Engineering and Technology, 2016, 7, 58-68.	0.7	12
11	Poly(gadodiamide fumaric acid): A Bioresorbable, Radiopaque, and MRI-Visible Polymer for Biomedical Applications. ACS Biomaterials Science and Engineering, 2015, 1, 677-684.	2.6	10
12	Bench and initial preclinical results of a novel 8 mm diameter double opposed helical biodegradable stent. Catheterization and Cardiovascular Interventions, 2016, 88, 902-911.	0.7	10
13	Severe Burn-Induced Inflammation and Remodeling of Achilles Tendon in a Rat Model. Shock, 2018, 50, 346-350.	1.0	10
14	Thermally processed polymeric microparticles for year-long delivery of dexamethasone. Materials Science and Engineering C, 2016, 58, 595-600.	3.8	9
15	Three-dimensional printing of poly(glycerol sebacate fumarate) gadodiamide-poly(ethylene glycol) diacrylate structures and characterization of mechanical properties for soft tissue applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 664-671.	1.6	8
16	Biodegradable stent use for congenital heart disease. Progress in Pediatric Cardiology, 2021, 61, 101349.	0.2	7
17	Novel bioresorbable stent coating for drug release in congenital heart disease applications. Journal of Biomedical Materials Research - Part A, 2015, 103, 1761-1770.	2.1	6
18	On the Capabilities of a Multi-Modality 3D Bioprinter for Customized Biomedical Devices. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
19	Thymosin Î²4 sustained release from poly(lactide-Î²-glycolide) microspheres: synthesis and implications for treatment of myocardial ischemia. <i>Annals of the New York Academy of Sciences</i> , 2012, 1270, 112-119.	1.8	2
20	Bacterial sensitivity assessment of multifunctional polymeric coatings for airway stents. , 2017, 105, 2153-2161.		2
21	Bioresorbable stent to manage congenital heart defects in children. <i>Materialia</i> , 2021, 16, 101078.	1.3	2
22	Morphology of Interatrial Defects Created by Interventional Techniques in a Neonatal Animal Model. <i>Pediatric Cardiology</i> , 2014, 35, 381-385.	0.6	1
23	Design of a MRI-Visible and Radiopaque Drug Delivery Coating for Bioresorbable Stents. , 2015, , .		1
24	Additive Manufacturing of Heterogeneous Bio-Resorbable Constructs for Soft Tissue Applications. , 2018, , .		1
25	Thermal Treatment Effects Upon the Degradation Characteristics of PLLA Coiled Stents. , 2009, , .		0
26	Range of Thermal Treatment Upon the Mechanical Characteristics of PLLA Coiled Stents. , 2009, , .		0
27	Influence of CO2 Blowing Agent on Porous Bioresorbable Stent Structure. , 2013, , .		0