Patrick K Bowen

List of Publications by Year
in descending order

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27	2,936	361045	500791
papers	citations	20 h-index	28 g-index

29	29	29	2346
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of wrought Znâ€“Al alloys (1, 3, and 5 wt % Al) through mechanical and in vivo testing for stent applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 245-258.	1.6	93
2	Novel high-strength, low-alloys Zn-Mg (< 0.1 wt% Mg) and their arterial biodegradation. Materials Science and Engineering C, 2018, 84, 67-79.	3.8	155
3	Structural Characteristics and In Vitro Biodegradation of a Novel Zn-Li Alloy Prepared by Induction Melting and Hot Rolling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1204-1215.	1.1	126
4	Biocompatible curcumin loaded PMMA-PEG/ZnO nanocomposite induce apoptosis and cytotoxicity in human gastric cancer cells. Materials Science and Engineering C, 2017, 80, 59-68.	3.8	69
5	Influence of Oxygen Concentration on the Performance of Ultra-Thin RF Magnetron Sputter Deposited Indium Tin Oxide Films as a Top Electrode for Photovoltaic Devices. Materials, 2016, 9, 63.	1.3	44
6	Overview: Magnesium-Based Biodegradable Implants. Jom, 2016, 68, 1175-1176.	0.9	6
7	Importance of oxide film in endovascular biodegradable zinc stents. Surface Innovations, 2016, 4, 133-140.	1.4	45
8	Corrosion Characteristics Dictate the Long-Term Inflammatory Profile of Degradable Zinc Arterial Implants. ACS Biomaterials Science and Engineering, 2016, 2, 2355-2364.	2.6	72
9	Biodegradable Metals for Cardiovascular Stents: from Clinical Concerns to Recent Znâ€Alloys. Advanced Healthcare Materials, 2016, 5, 1121-1140.	3.9	326
10	In Vitro Cytotoxicity, Adhesion, and Proliferation of Human Vascular Cells Exposed to Zinc. ACS Biomaterials Science and Engineering, 2016, 2, 634-642.	2.6	136
11	Hydrophobic nano-asperities in control of energy barrier during particleâ€“surface interactions. Surface Innovations, 2015, 3, 164-171.	1.4	21
12	Rates ofin vivo(arterial) andin vitrobiocorrosion for pure magnesium. Journal of Biomedical Materials Research - Part A, 2015, 103, 341-349.	2.1	68
13	Reproducibility in Rehydroxylation of Ceramic Artifacts. Journal of the American Ceramic Society, 2015, 98, 3367-3372.	1.9	9
14	Metallic zinc exhibits optimal biocompatibility for bioabsorbable endovascular stents. Materials Science and Engineering C, 2015, 56, 467-472.	3.8	192
15	FIB-TEM Study of Magnesium Corrosion Products after 14 Days in the Murine Artery. ACS Biomaterials Science and Engineering, 2015, 1, 919-926.	2.6	17
16	Magnesium in the murine artery: Probing the products of corrosion. Acta Biomaterialia, 2014, 10, 1475-1483.	4.1	91
17	Effect of Humidity Instability on Rehydroxylation in Fired Clay Ceramics. Journal of the American Ceramic Society, 2013, 96, 1047-1050.	1.9	7
18	Inexpensive mineral copper materials with antibacterial surfaces. Surface Innovations, 2013, 1, 15-26.	1.4	8

#	Article	IF	Citations
19	A new in vitroâ€“in vivo correlation for bioabsorbable magnesium stents from mechanical behavior. Materials Science and Engineering C, 2013, 33, 5064-5070.	3.8	58
20	Advances in Mg corrosion and research suggestions. Journal of Magnesium and Alloys, 2013, 1, 177-200.	5.5	397
21	Zinc Exhibits Ideal Physiological Corrosion Behavior for Bioabsorbable Stents. Advanced Materials, 2013, 25, 2577-2582.	11.1	656
22	Modeling Rehydration/Rehydroxylation Massâ€Gain Curves from Davenport Ceramics. Journal of the American Ceramic Society, 2013, 96, 885-891.	1.9	16
23	New approaches in evaluating metallic candidates for bioabsorbable stents. Emerging Materials Research, 2012, 1, 237-255.	0.4	28
24	Tensile testing as a novel method for quantitatively evaluating bioabsorbable material degradation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 2101-2113.	1.6	30
25	A simplified in vivo approach for evaluating the bioabsorbable behavior of candidate stent materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 58-67.	1.6	158
26	Vermiculite decorated with copper nanoparticles: Novel antibacterial hybrid material. Applied Surface Science, 2011, 257, 9435-9443.	3.1	83
27	Rehydration/Rehydroxylation Kinetics of Reheated XIX-Century Davenport (Utah) Ceramic. Journal of the American Ceramic Society, 2011, 94, 2585-2591.	1.9	24