# Patrick K Bowen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8554791/publications.pdf

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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 | Zinc Exhibits Ideal Physiological Corrosion Behavior for Bioabsorbable Stents. Advanced Materials, 2013, 25, 2577-2582. | 11.1 | 656 |
| 2 | Advances in Mg corrosion and research suggestions. Journal of Magnesium and Alloys, 2013, 1, 177-200. | 5.5 | 397 |
| 3 | Biodegradable Metals for Cardiovascular Stents: from Clinical Concerns to Recent Znâ€Alloys. Advanced Healthcare Materials, 2016, 5, 1121-1140. | 3.9 | 326 |
| 4 | Metallic zinc exhibits optimal biocompatibility for bioabsorbable endovascular stents. Materials Science and Engineering C, 2015, 56, 467-472. | 3.8 | 192 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Magnesium in the murine artery: Probing the products of corrosion. Acta Biomaterialia, 2014, 10, 1475-1483. | 4.1 | 91 |
| 11 | Vermiculite decorated with copper nanoparticles: Novel antibacterial hybrid material. Applied Surface Science, 2011, 257, 9435-9443. | 3.1 | 83 |
| 12 | 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 |
| 13 | 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 |
| 14 | Rates ofin vivo(arterial) andin vitrobiocorrosion for pure magnesium. Journal of Biomedical Materials Research - Part A, 2015, 103, 341-349. | 2.1 | 68 |
| 15 | 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 |
| 16 | Importance of oxide film in endovascular biodegradable zinc stents. Surface Innovations, 2016, 4, 133-140. | 1.4 | 45 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | New approaches in evaluating metallic candidates for bioabsorbable stents. Emerging Materials Research, 2012, 1, 237-255. | 0.4 | 28 |
| 20 | Rehydration/Rehydroxylation Kinetics of Reheated XIX-Century Davenport (Utah) Ceramic. Journal of the American Ceramic Society, 2011, 94, 2585-2591. | 1.9 | 24 |
| 21 | Hydrophobic nano-asperities in control of energy barrier during particleâ€“surface interactions. Surface Innovations, 2015, 3, 164-171. | 1.4 | 21 |
| 22 | 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 |
| 23 | Modeling Rehydration/Rehydroxylation Massâ€Gain Curves from Davenport Ceramics. Journal of the American Ceramic Society, 2013, 96, 885-891. | 1.9 | 16 |
| 24 | Reproducibility in Rehydroxylation of Ceramic Artifacts. Journal of the American Ceramic Society, 2015, 98, 3367-3372. | 1.9 | 9 |
| 25 | Inexpensive mineral copper materials with antibacterial surfaces. Surface Innovations, 2013, 1, 15-26. | 1.4 | 8 |
| 26 | Effect of Humidity Instability on Rehydroxylation in Fired Clay Ceramics. Journal of the American Ceramic Society, 2013, 96, 1047-1050. | 1.9 | 7 |
| 27 | Overview: Magnesium-Based Biodegradable Implants. Jom, 2016, 68, 1175-1176. | 0.9 | 6 |