

# Nicholas T Kirkland

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

2,884  
citations

471509

17  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

3075  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the corrosion of biodegradable magnesium implants: A critical review of current methodologies and their limitations. <i>Acta Biomaterialia</i> , 2012, 8, 925-936.	8.3	692
2	Exploring graphene as a corrosion protection barrier. <i>Corrosion Science</i> , 2012, 56, 1-4.	6.6	515
3	A survey of bio-corrosion rates of magnesium alloys. <i>Corrosion Science</i> , 2010, 52, 287-291.	6.6	414
4	Electrochemical Properties of Intermetallic Phases and Common Impurity Elements in Magnesium Alloys. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, C5.	2.2	205
5	<i>In vitro</i> dissolution of magnesium-calcium binary alloys: Clarifying the unique role of calcium additions in bioresorbable magnesium implant alloys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 95B, 91-100.	3.4	180
6	Magnesium alloys: Predicting <i>in vivo</i> corrosion with <i>in vitro</i> immersion testing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1134-1141.	3.4	178
7	Magnesium biomaterials: past, present and future. <i>Corrosion Engineering Science and Technology</i> , 2012, 47, 322-328.	1.4	111
8	Performance-driven design of Biocompatible Mg alloys. <i>Jom</i> , 2011, 63, 28-34.	1.9	96
9	Ca-Mg-Zn bulk metallic glasses as bioresorbable metals. <i>Acta Biomaterialia</i> , 2012, 8, 2375-2383.	8.3	85
10	Observations of the galvanostatic dissolution of pure magnesium. <i>Corrosion Science</i> , 2012, 65, 5-9.	6.6	71
11	Buffer-regulated biocorrosion of pure magnesium. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 283-291.	3.6	70
12	Synthesis of topologically-ordered open-cell porous magnesium. <i>Materials Letters</i> , 2010, 64, 2572-2574.	2.6	66
13	Synthesis and properties of topologically ordered porous magnesium. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1666-1672.	3.5	60
14	The influence of biodegradable magnesium alloys on the osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, n/a-n/a.	4.0	42
15	Magnesium Biomaterials. <i>SpringerBriefs in Materials</i> , 2014, , .	0.3	30
16	<i>In vitro</i> corrosion survey of Mg-Ca and Mg-3Zn-Ca alloys with and without calcium phosphate conversion coatings. <i>Corrosion Engineering Science and Technology</i> , 2012, 47, 365-373.	1.4	27
17	PROCESSING-PROPERTY RELATIONSHIPS OF AS-CAST MAGNESIUM FOAMS WITH CONTROLLABLE ARCHITECTURE. <i>International Journal of Modern Physics B</i> , 2009, 23, 1002-1008.	2.0	26
18	Introduction to Magnesium Biomaterials. <i>SpringerBriefs in Materials</i> , 2014, , 1-12.	0.3	8

#	ARTICLE	IF	CITATIONS
19	Developments in Mg-based Alloys for Biomaterials. SpringerBriefs in Materials, 2014, , 73-94.	0.3	6
20	Magnesium Biocorrosion Experiments. SpringerBriefs in Materials, 2014, , 13-37.	0.3	2
21	Effect of amino acids and proteins on the in vitro performance ofÂcoated magnesium for biomedical applications. , 2015, , 205-230.		0
22	Influence of Environmental Variables on In Vitro Performance. SpringerBriefs in Materials, 2014, , 39-72.	0.3	0