

David G Waugh

List of Publications by Year in descending order

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26
papers

364
citations

840585

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839398

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docs citations

33
times ranked

426
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Heat Input on Microstructure and Mechanical Properties of Gas Tungsten Arc Welded HSLA S500MC Steel Joints. <i>Metals</i> , 2022, 12, 565.	1.0	7
2	Micro-Machining of Diamond, Sapphire and Fused Silica Glass Using a Pulsed Nano-Second Nd:YVO4 Laser. <i>Optics</i> , 2021, 2, 169-183.	0.6	3
3	On the Droplet Size and Application of Wettability Analysis for the Development of Ink and Printing Substrates. <i>Langmuir</i> , 2019, 35, 12356-12365.	1.6	14
4	Laser surface texturing of $\hat{1}^2$ -Ti alloy for orthopaedics: Effect of different wavelengths and pulse durations. <i>Applied Surface Science</i> , 2019, 489, 175-186.	3.1	35
5	Altering the wetting properties of orthopaedic titanium alloy (Ti $\hat{6}$ Al $\hat{7}$ Nb) using laser shock peening. <i>Journal of Alloys and Compounds</i> , 2019, 801, 327-342.	2.8	21
6	NiTi shape memory alloy with enhanced wear performance by laser selective area nitriding for orthopaedic applications. <i>Surface and Coatings Technology</i> , 2017, 309, 1015-1022.	2.2	22
7	Laser surface modification of polymeric surfaces for microbiological applications. , 2016, , 197-220.		4
8	Laser sealing of dissimilar polymers for manufacturing packaging products. <i>Journal of Laser Applications</i> , 2016, 28, 022428.	0.8	1
9	Modifications of surface properties of beta Ti by laser gas diffusion nitriding. <i>Journal of Laser Applications</i> , 2016, 28, 022505.	0.8	6
10	In vitro mesenchymal stem cell response to a CO ₂ laser modified polymeric material. <i>Materials Science and Engineering C</i> , 2016, 67, 727-736.	3.8	11
11	Laser surface structuring of ceramics, metals and polymers for biomedical applications. , 2016, , 281-299.		17
12	Laser surface modification for the prevention of biofouling by infection causing <i>Escherichia Coli</i> . <i>Journal of Laser Applications</i> , 2016, 28, .	0.8	21
13	Surface Treatments to Modulate Bioadhesion: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2016, 4, 69-103.	3.3	21
14	Laser melting of NiTi and its effects on in vitro mesenchymal stem cell responses. , 2015, , 653-676.		2
15	Development in laser peening of advanced ceramics. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
16	On the study of oil paint adhesion on optically transparent glass: Conservation of reverse paintings on glass. <i>Applied Surface Science</i> , 2015, 357, 293-301.	3.1	4
17	Effect of laser treatment on the attachment and viability of mesenchymal stem cell responses on shape memory NiTi alloy. <i>Materials Science and Engineering C</i> , 2014, 42, 254-263.	3.8	33
18	Laser Surface Processing of Polymers for Biomedical Applications. <i>Springer Series in Materials Science</i> , 2013, , 275-318.	0.4	1

#	ARTICLE	IF	CITATIONS
19	In vitro mesenchymal stem cell responses on laser-welded NiTi alloy. Materials Science and Engineering C, 2013, 33, 1344-1354.	3.8	10
20	Modulating calcium phosphate formation using CO2 laser engineering of a polymeric material. Materials Science and Engineering C, 2012, 32, 189-200.	3.8	1
21	Osteoblast cell response to a CO2 laser modified polymeric material. Optics and Lasers in Engineering, 2012, 50, 236-247.	2.0	20
22	Modulation of osteoblast cell response through laser surface processing of nylon 6,6. , 2011, , .		1
23	Wettability and osteoblast cell response modulation through UV laser processing of nylon 6,6. Applied Surface Science, 2011, 257, 8798-8812.	3.1	26
24	Generic parameters governing the wettability characteristics of laser-modified nylon 6,6. , 2011, , .		0
25	On the effects of using CO2 and F2 lasers to modify the wettability of a polymeric biomaterial. Optics and Laser Technology, 2010, 42, 347-356.	2.2	27
26	Interaction of CO2 laser-modified nylon with osteoblast cells in relation to wettability. Materials Science and Engineering C, 2009, 29, 2514-2524.	3.8	40