

Damon Kent

List of Publications by Year in descending order

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80
papers

3,811
citations

126708

33
h-index

128067

60
g-index

84
all docs

84
docs citations

84
times ranked

3500
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation of differently processed Mg-based implants leads to distinct foreign body reactions (FBRs) through dissimilar signaling pathways. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 2106-2124.	5.5	0
2	Effect of Mg on dynamic recrystallization of Zn-Mg alloys during room-temperature compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142243.	2.6	16
3	Metastable Ti-Fe-Ge alloys with high elastic admissible strain. <i>Materialia</i> , 2022, 21, 101304.	1.3	1
4	Sugar as an Analogue for Snow in Penetration Testing: A Preliminary Comparison. , 2022, 1, 33-46.		0
5	The characterisation and formation of novel microstructural features in a Ti-Nb-Zr-Mo-Sn alloy manufactured by Laser Engineered Net Shaping (LENS). <i>Additive Manufacturing</i> , 2021, 37, 101705.	1.7	5
6	Microstructural evolution and mechanical properties of bulk and porous low-cost Ti-Mo-Fe alloys produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2021, 853, 156768.	2.8	44
7	High stability and high strength β -titanium alloys for additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 816, 141326.	2.6	15
8	The effects of Bi substitution for Sn on mechanical properties of Sn-based lead-free solders. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22155-22167.	1.1	4
9	Influence of strain rate and crystallographic orientation on dynamic recrystallization of pure Zn during room-temperature compression. <i>Journal of Materials Science and Technology</i> , 2021, 86, 237-250.	5.6	30
10	Improved biodegradable magnesium alloys through advanced solidification processing. <i>Scripta Materialia</i> , 2020, 177, 234-240.	2.6	20
11	Effect of Fe addition on properties of Ti-6Al-xFe manufactured by blended elemental process. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103518.	1.5	21
12	Additively manufactured iron-manganese for biodegradable porous load-bearing bone scaffold applications. <i>Acta Biomaterialia</i> , 2020, 103, 346-360.	4.1	111
13	Properties of Powder Metallurgy-Fabricated Oxygen-Containing Beta Ti-Nb-Mo-Sn-Fe Alloys for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2020, 22, 1901229.	1.6	5
14	Activation of homogeneous precursors for formation of uniform and refined β precipitates in a high-strength β -Ti alloy. <i>Materialia</i> , 2020, 9, 100557.	1.3	13
15	Eutectic modification of Fe-enriched high-entropy alloys through minor addition of boron. <i>Journal of Materials Science</i> , 2020, 55, 14571-14587.	1.7	14
16	Spheroidization behaviour of a Fe-enriched eutectic high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2020, 51, 173-179.	5.6	26
17	High strength heat-treatable β -titanium alloy for additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 791, 139646.	2.6	27
18	High-temperature age-hardening of a novel cost-effective Fe ₄₅ Ni ₂₅ Cr ₂₅ Mo ₅ high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139580.	2.6	17

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19	Ultrahigh strain hardening in a transformation-induced plasticity and twinning-induced plasticity titanium alloy. <i>Scripta Materialia</i> , 2020, 187, 285-290.	2.6	75
20	Sintering and biocompatibility of blended elemental Ti-xNb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103691.	1.5	27
21	Additive manufacturing of low-cost porous titanium-based composites for biomedical applications: Advantages, challenges and opinion for future development. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154263.	2.8	124
22	Dynamic recrystallization of pure zinc during high strain-rate compression at ambient temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 784, 139325.	2.6	28
23	Simultaneously enhanced strength and ductility in a metastable β -Ti alloy by stress-induced hierarchical twin structure. <i>Scripta Materialia</i> , 2020, 184, 6-11.	2.6	64
24	Role of germanium in microstructural development of powder metallurgy Ti-20Cr-xGe alloys. <i>Materials Letters</i> , 2020, 274, 127964.	1.3	1
25	Comparison of the Microstructure and Biocorrosion Properties of Additively Manufactured and Conventionally Fabricated near β Ti-25Nb-3Zr-3Mo-2Sn Alloy. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5844-5856.	2.6	19
26	Evaluation of the mechanical and wear properties of titanium produced by three different additive manufacturing methods for biomedical application. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 760, 339-345.	2.6	90
27	Composition of the nanosized orthorhombic α'' phase and its direct transformation to fine α' during ageing in metastable β -Ti alloys. <i>Scripta Materialia</i> , 2019, 170, 183-188.	2.6	30
28	Comparative Study of Pure Iron Manufactured by Selective Laser Melting, Laser Metal Deposition, and Casting Processes. <i>Advanced Engineering Materials</i> , 2019, 21, 1900049.	1.6	39
29	Microstructure, phase composition and mechanical properties of new, low cost Ti-Mn-Nb alloys for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2019, 787, 570-577.	2.8	59
30	Effects of deformation twinning on the mechanical properties of biodegradable Zn-Mg alloys. <i>Bioactive Materials</i> , 2019, 4, 8-16.	8.6	70
31	A biocompatible thermoset polymer binder for Direct Ink Writing of porous titanium scaffolds for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2019, 95, 160-165.	3.8	32
32	Biocompatible porous titanium scaffolds produced using a novel space holder technique. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2796-2806.	1.6	16
33	Optimising the mechanical properties of Ti-6Al-4V components produced by wire + arc additive manufacturing with post-process heat treatments. <i>Journal of Alloys and Compounds</i> , 2018, 753, 247-255.	2.8	138
34	Insights into Machining of a β Titanium Biomedical Alloy from Chip Microstructures. <i>Metals</i> , 2018, 8, 710.	1.0	10
35	Trace Carbon Addition to Refine Microstructure and Enhance Properties of Additive-Manufactured Ti-6Al-4V. <i>Jom</i> , 2018, 70, 1670-1676.	0.9	57
36	Nucleation driving force for α' -assisted formation of α'' and associated α' morphology in β -Ti alloys. <i>Scripta Materialia</i> , 2018, 155, 149-154.	2.6	31

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37	Recent developments and opportunities in additive manufacturing of titanium-based matrix composites: A review. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 133, 85-102.	6.2	273
38	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 20-26.	2.6	225
39	Manufacturing of biocompatible porous titanium scaffolds using a novel spherical sugar pellet space holder. <i>Materials Letters</i> , 2017, 195, 92-95.	1.3	34
40	Comparative study of commercially pure titanium produced by laser engineered net shaping, selective laser melting and casting processes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 705, 385-393.	2.6	176
41	Mechanical properties and biocompatibility of porous titanium scaffolds for bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 169-174.	1.5	128
42	Manufacturing of graded titanium scaffolds using a novel space holder technique. <i>Bioactive Materials</i> , 2017, 2, 248-252.	8.6	21
43	The role of β in the precipitation of α in near- β Ti alloys. <i>Scripta Materialia</i> , 2016, 117, 92-95.	2.6	37
44	New insights into the phase transformations to isothermal β and β -assisted α in near β -Ti alloys. <i>Acta Materialia</i> , 2016, 106, 353-366.	3.8	155
45	The dynamic response of a metastable β Ti-Nb alloy to high strain rates at room and elevated temperatures. <i>Acta Materialia</i> , 2016, 105, 104-113.	3.8	71
46	An investigation of the mechanical behaviour of fine tubes fabricated from a Ti-25Nb-3Mo-3Zr-2Sn alloy. <i>Materials and Design</i> , 2015, 85, 256-265.	3.3	22
47	A new understanding of the wear processes during laser assisted milling 17-4 precipitation hardened stainless steel. <i>Wear</i> , 2015, 328-329, 518-530.	1.5	25
48	On the deformation mechanisms and strain rate sensitivity of a metastable β Ti-Nb alloy. <i>Scripta Materialia</i> , 2015, 107, 34-37.	2.6	52
49	Microstructure, elastic deformation behavior and mechanical properties of biomedical β -type titanium alloy thin-tube used for stents. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 45, 132-141.	1.5	22
50	Microstructural characteristics of adiabatic shear localization in a metastable beta titanium alloy deformed at high strain rate and elevated temperatures. <i>Materials Characterization</i> , 2015, 102, 103-113.	1.9	38
51	Controlling the microstructure and properties of wire arc additive manufactured Ti-6Al-4V with trace boron additions. <i>Acta Materialia</i> , 2015, 91, 289-303.	3.8	280
52	The mechanism of β -assisted α phase formation in near β -Ti alloys. <i>Scripta Materialia</i> , 2015, 104, 75-78.	2.6	75
53	Evolution of the microstructure and mechanical properties during fabrication of mini-tubes from a biomedical β -titanium alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 42, 207-218.	1.5	16
54	Tool life and wear mechanisms in laser assisted milling Ti-6Al-4V. <i>Wear</i> , 2015, 322-323, 151-163.	1.5	74

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55	Precipitation of the β -phase in an ultrafine grained beta-titanium alloy processed by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 605, 144-150.	2.6	22
56	The cold-rolling behaviour of AZ31 tubes for fabrication of biodegradable stents. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 292-303.	1.5	18
57	The dynamic response of a β titanium alloy to high strain rates and elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 417-426.	2.6	86
58	Constitutive modelling of the flow behaviour of a β titanium alloy at high strain rates and elevated temperatures using the Johnson-Cook and modified Zerilli-Armstrong models. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 612, 71-79.	2.6	62
59	Effects of phase stability and processing on the mechanical properties of Ti-Nb based β Ti alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 28, 15-25.	1.5	53
60	Thermal stability of an ultrafine grain β -Ti alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 582-587.	2.6	18
61	Thermal analysis of precipitation reactions in a Ti-25Nb-3Mo-3Zr-2Sn alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 835-841.	1.1	17
62	Influence of ageing temperature and heating rate on the properties and microstructure of β Ti alloy, Ti-6Cr-5Mo-5V-4Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 531, 98-106.	2.6	53
63	A comparison of cryogenic and high pressure emulsion cooling technologies on tool life and chip morphology in Ti-6Al-4V cutting. <i>Journal of Materials Processing Technology</i> , 2012, 212, 752-765.	3.1	172
64	Strength enhancement of a biomedical titanium alloy through a modified accumulative roll bonding technique. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 405-416.	1.5	56
65	A morphological study of nitride formed on Al at low temperature in the presence of Mg. <i>Acta Materialia</i> , 2011, 59, 2469-2480.	3.8	21
66	Formation of aluminium nitride during sintering of powder injection moulded aluminium. <i>Powder Metallurgy</i> , 2010, 53, 118-124.	0.9	7
67	Pseudoelastic behaviour of a β Ti-25Nb-3Zr-3Mo-2Sn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2246-2252.	2.6	63
68	Strengthening of cast Ti-25Nb-3Mo-3Zr-2Sn alloy through precipitation of β in two discrete crystallographic orientations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 6601-6606.	2.6	29
69	Microstructure and Mechanical Properties of Cast Ti25Nb3Mo3Zr2Sn Alloy. <i>Advanced Materials Research</i> , 2010, 97-101, 488-491.	0.3	0
70	The Effect of Temperature on the Microstructure of a Metastable β Ti Alloy. <i>Materials Science Forum</i> , 2010, 654-656, 847-850.	0.3	9
71	Influence of Heat Treatment on the Pseudoelastic Behaviour of a β Ti-25Nb-3Zr-3Mo-2Sn Alloy. <i>Materials Science Forum</i> , 2010, 654-656, 871-874.	0.3	0
72	Formation of Aluminium Nitride during Sintering of Powder Injection Moulded Aluminium. <i>Materials Science Forum</i> , 2009, 618-619, 631-634.	0.3	1

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73	Powder injection moulding of an Al-AlN metal matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 513-514, 352-356.	2.6	43
74	Powder Injection Molding of Al-(Steel and Magnet) Hybrid Components. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2785-2788.	1.1	6
75	Novel Aluminium Nitride Surface Coatings Formed on Aluminium. Materials Science Forum, 2007, 561-565, 571-575.	0.3	4
76	A novel method for the production of aluminium nitride. Scripta Materialia, 2006, 54, 2125-2129.	2.6	23
77	Age hardening of a sintered Al-Cu-Mg-Si (Sn) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 405, 65-73.	2.6	34
78	The <i>In Situ &/i>Fabrication of Al-AlN Composites from Metal Powders and their Resistance to Wear and Cavitation. Materials Science Forum, 0, 618-619, 617-620.	0.3	3
79	The Aging Response of a Metastable β^2 Ti Alloy, BTi-6554. Materials Science Forum, 0, 690, 29-32.	0.3	4
80	The Effect of HIPping on the Microstructure and Tensile Properties of Cast BTi-6554 Alloy. Materials Science Forum, 0, 690, 33-36.	0.3	1