

Yunhui Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3201747/publications.pdf>

Version: 2024-02-01

24
papers

781
citations

516215

16
h-index

676716

22
g-index

25
all docs

25
docs citations

25
times ranked

958
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Nanometric cutting of single crystal silicon surfaces modified by ion implantation. <i>CIRP Annals - Manufacturing Technology</i> , 2011, 60, 527-530.	1.7	91
4	Correlative Synchrotron X-ray Imaging and Diffraction of Directed Energy Deposition Additive Manufacturing. <i>Acta Materialia</i> , 2021, 209, 116777.	3.8	47
5	In-situ Synchrotron imaging of keyhole mode multi-layer laser powder bed fusion additive manufacturing. <i>Applied Materials Today</i> , 2020, 20, 100650.	2.3	46
6	Finite element analysis of porous commercially pure titanium for biomedical implant application. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 43-50.	2.6	41
7	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
8	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
9	In situ X-ray quantification of melt pool behaviour during directed energy deposition additive manufacturing of stainless steel. <i>Materials Letters</i> , 2021, 286, 129205.	1.3	28
10	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
11	Distinguishing octane grades in gasoline using terahertz metamaterials. <i>Applied Optics</i> , 2012, 51, 3258.	0.9	24
12	MD simulation of nanometric cutting of copper with and without water lubrication. <i>Science China Technological Sciences</i> , 2014, 57, 1154-1159.	2.0	22
13	Manufacturing of graded titanium scaffolds using a novel space holder technique. <i>Bioactive Materials</i> , 2017, 2, 248-252.	8.6	21
14	In situ radiographic and ex situ tomographic analysis of pore interactions during multilayer builds in laser powder bed fusion. <i>Additive Manufacturing</i> , 2020, 36, 101512.	1.7	20
15	Synchrotron X-ray imaging of directed energy deposition additive manufacturing of titanium alloy Ti-6242. <i>Additive Manufacturing</i> , 2021, 41, 101969.	1.7	17
16	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
17	Porous Titanium Scaffolds Fabricated by Metal Injection Moulding for Biomedical Applications. <i>Materials</i> , 2018, 11, 1573.	1.3	16
18	Sinter formation during directed energy deposition of titanium alloy powders. <i>International Journal of Machine Tools and Manufacture</i> , 2022, 176, 103887.	6.2	12

#	ARTICLE	IF	CITATIONS
19	Enhancement of terahertz radiation from GaP emitters by subwavelength antireflective micropyramid structures. <i>Optics Letters</i> , 2013, 38, 2053.	1.7	11
20	Surface modification for brittle monocrystalline materials by MeV ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 433-436.	0.6	6
21	Molecular Dynamics Simulation of the Deformation of Single Crystal Gallium Arsenide. <i>Applied Mechanics and Materials</i> , 2014, 553, 60-65.	0.2	2
22	Molecular dynamics of nanometric processing of ion implanted monocrystalline silicon surfaces. <i>Transactions of Tianjin University</i> , 2014, 20, 203-209.	3.3	1
23	Variance Stabilised Optimisation of Neural Networks: A Case Study in Additive Manufacturing. , 2021, , .		1
24	Nanometric Cutting of Crystal Surfaces Modified by Ion Implantation. , 2015, , 1425-1472.		0