

Feng Lin

List of Publications by Year in descending order

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106
papers

3,499
citations

196777

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all docs

108
docs citations

108
times ranked

3859
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive Manufacturing of Nickel-Based Superalloy Single Crystals with IN-738 Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 369-374.	1.5	9
2	Understanding the formation process of shrinkage pores with a 3D dendrite growth model: from casting to additive manufacturing. <i>Computational Mechanics</i> , 2022, 69, 133.	2.2	3
3	Effects of the higher accelerating voltage on electron beam powder-bed based additive manufacturing of Ti6Al4V alloy. <i>Additive Manufacturing</i> , 2022, 50, 102579.	1.7	7
4	Performance of High-Layer-Thickness Ti6Al4V Fabricated by Electron Beam Powder Bed Fusion under Different Accelerating Voltage Values. <i>Materials</i> , 2022, 15, 1878.	1.3	8
5	Review on Additive Manufacturing of Single-Crystal Nickel-based Superalloys. , 2022, 1, 100019.		4
6	Impact of fluid flow on the dendrite growth and the formation of new grains in additive manufacturing. <i>Additive Manufacturing</i> , 2022, 55, 102832.	1.7	3
7	Dispersion of reinforcing micro-particles in the powder bed fusion additive manufacturing of metal matrix composites. <i>Acta Materialia</i> , 2022, 235, 118086.	3.8	25
8	Effect of heat treatments on the microstructure and mechanical properties of IN738LC prepared by electron beam powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165807.	2.8	11
9	A review on additive manufacturing of Alâ€“Cu (2xxx) aluminium alloys, processes and defects. <i>Materials Science and Technology</i> , 2021, 37, 805-829.	0.8	21
10	Dissolution of Al ₂ Cu Precipitate in Al ₂₀₂₄ Additively Manufactured by Electron Beam Melting. <i>Advanced Engineering Materials</i> , 2021, 23, 2100323.	1.6	4
11	Performance of Ti6Al4V fabricated by electron beam and laser hybrid preheating and selective melting strategy. <i>China Foundry</i> , 2021, 18, 351-359.	0.5	1
12	Experimental study on a novel method to improve progressive collapse resistance of RC frames using locally debonded rebars. <i>Journal of Building Engineering</i> , 2021, 41, 102428.	1.6	10
13	Progressive collapse resistance of RC T-beam cable subassemblages under a middle-column-removal scenario. <i>Journal of Building Engineering</i> , 2021, 42, 102814.	1.6	4
14	Microstructures and mechanical properties evolution of IN939 alloy during electron beam selective melting process. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160934.	2.8	34
15	A multi-grid Cellular Automaton model for simulating dendrite growth and its application in additive manufacturing. <i>Additive Manufacturing</i> , 2021, 47, 102284.	1.7	8
16	Microstructure, mechanical properties and strengthening mechanisms of IN738LC alloy produced by Electron Beam Selective Melting. <i>Additive Manufacturing</i> , 2021, 47, 102371.	1.7	6
17	Culture models produced via biomanufacturing for neural tissue-like constructs based on primary neural and neural stem cells. <i>Brain Science Advances</i> , 2021, 7, 220-238.	0.3	1
18	Improving Progressive Collapse Resistance of RC Beamâ€“Column Subassemblages Using External Steel Cables. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, .	1.0	22

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19	Preparation of Ordered MAPbI ₃ Perovskite Needle-Like Crystal Films by Electric Field and Microdroplet Jetting 3D Printing. <i>Crystal Growth and Design</i> , 2020, 20, 1405-1414.	1.4	7
20	Fabrication of functionally graded materials from a single material by selective evaporation in electron beam powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 793, 139827.	2.6	10
21	Preparation and Testing of Anisotropic MAPbI ₃ Perovskite Photoelectric Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44248-44255.	4.0	26
22	Selective electron beam melting of high strength Al ₂ O ₃ alloy; microstructural characterization and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155866.	2.8	26
23	Fabrication of a biomimetic spinal cord tissue construct with heterogenous mechanical properties using intrascaffold cell assembly. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3094-3107.	1.7	10
24	Application of a 3D Bioprinted Hepatocellular Carcinoma Cell Model in Antitumor Drug Research. <i>Frontiers in Oncology</i> , 2020, 10, 878.	1.3	52
25	Modeling precipitation process of Al-Cu alloy in electron beam selective melting with a 3D cellular automaton model. <i>Additive Manufacturing</i> , 2020, 36, 101423.	1.7	6
26	Behavior of Grouted Sleeve Splice for Steel Profile under Tensile Loadings. <i>Materials</i> , 2020, 13, 2037.	1.3	4
27	Characterization of interfacial transition zone of functionally graded materials with graded composition from a single material in electron beam powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154774.	2.8	14
28	Data Mining for Mesoscopic Simulation of Electron Beam Selective Melting. <i>Engineering</i> , 2019, 5, 746-754.	3.2	6
29	Polyhedral Oligomeric Silsesquioxane Hybrid Polymers: Well-Defined Architectural Design and Potential Functional Applications. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900101.	2.0	80
30	Research on aluminum component change and phase transformation of TiAl-based alloy in electron beam selective melting process under multiple scan. <i>Intermetallics</i> , 2019, 113, 106575.	1.8	36
31	Bio-Manufacturing Research Center at Tsinghua University. <i>Bio-Design and Manufacturing</i> , 2019, 2, 137-143.	3.9	1
32	An Image-Guided Intrascaffold Cell Assembly Technique for Accurate Printing of Heterogeneous Tissue Constructs. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3499-3510.	2.6	3
33	Generation of Ultrafine Droplets in Femtoliter Scale from a Large Needle with Diameter of 200 Microns. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4244-4248.	0.9	1
34	Investigation on Crystallization of CH ₃ NH ₃ PbI ₃ Perovskite and Its Intermediate Phase from Polar Aprotic Solvents. <i>Crystal Growth and Design</i> , 2019, 19, 959-965.	1.4	22
35	A novel design of a high-strength high-temperature graphite die. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2019, 233, 138-146.	1.4	1
36	Effect of energy input on microstructure and mechanical properties in EBSM Ti6Al4V. <i>Materials and Manufacturing Processes</i> , 2018, 33, 1708-1713.	2.7	13

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37	Crystallization of $\text{CH}_3\text{NH}_3\text{PbX}_3$ perovskite from micro-droplets of lead acetate precursor solution. <i>CrystEngComm</i> , 2018, 20, 3058-3065.	1.3	5
38	In Situ Investigation of the Growth of Methylammonium Lead Halide (MAPbX_3) Perovskite from Microdroplets. <i>Crystal Growth and Design</i> , 2018, 18, 3458-3464.	1.4	8
39	Meso-scale modeling of multiple-layer fabrication process in Selective Electron Beam Melting: Inter-layer/track voids formation. <i>Materials and Design</i> , 2018, 141, 210-219.	3.3	142
40	Self-template synthesis of nickel silicate and nickel silicate/nickel composite nanotubes and their applications in wastewater treatment. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 191-199.	5.0	35
41	A study of the microstructures and mechanical properties of Ti6Al4V fabricated by SLM under vacuum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 724, 1-10.	2.6	87
42	Self-correction method of out-of-plane motions in two-dimensional digital image correlation. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1672-1676.	1.5	3
43	Parametric study and surface morphology analysis of electron beam selective melting. <i>Rapid Prototyping Journal</i> , 2018, 24, 1586-1598.	1.6	7
44	Modeling on Microdroplet Formation for Cell Printing Based on Alternating Viscous-Inertial Force Jetting. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, .	1.3	10
45	Experimental study and finite element analysis on the frame of multi-directional forging press. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 2112-2122.	1.5	5
46	Quantitative Analyses of Dynamic Features of Fibroblasts on Different Protein-Coated Compliant Substrates. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2987-2998.	2.6	5
47	In Situ Observation of Crystallization of Methylammonium Lead Iodide Perovskite from Microdroplets. <i>Small</i> , 2017, 13, 1604125.	5.2	39
48	Generation of droplets via oscillations of a tapered capillary tube filled with low-viscosity liquids. <i>Physics of Fluids</i> , 2017, 29, 067104.	1.6	11
49	Modeling and Experimental Validation of the Electron Beam Selective Melting Process. <i>Engineering</i> , 2017, 3, 701-707.	3.2	21
50	Multi-physics modeling of single/multiple-track defect mechanisms in electron beam selective melting. <i>Acta Materialia</i> , 2017, 134, 324-333.	3.8	267
51	Multi-scale modeling of electron beam melting of functionally graded materials. <i>Acta Materialia</i> , 2016, 115, 403-412.	3.8	118
52	A novel peptide ADAM8 inhibitor attenuates bronchial hyperresponsiveness and Th2 cytokine mediated inflammation of murine asthmatic models. <i>Scientific Reports</i> , 2016, 6, 30451.	1.6	23
53	Fast parallel algorithm for slicing STL based on pipeline. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016, 29, 549-555.	1.9	8
54	Overexpression of soluble ADAM33 promotes a hypercontractile phenotype of the airway smooth muscle cell in rat. <i>Experimental Cell Research</i> , 2016, 349, 109-118.	1.2	15

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55	Simulation and experimental studies of induction heating during the partial upset-extrusion of a nuclear main pipe. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401668073.	0.8	2
56	Dual-Material Electron Beam Selective Melting: Hardware Development and Validation Studies. <i>Engineering</i> , 2015, 1, 124-130.	3.2	29
57	Microstructures of Components Synthesized via Electron Beam Selective Melting Using Blended Pre-Alloyed Powders of Ti6Al4V and Ti45Al7Nb. <i>Rare Metal Materials and Engineering</i> , 2015, 44, 2623-2627.	0.8	15
58	Alternating Force Based Drop-on-Demand Microdroplet Formation and Three-Dimensional Deposition. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	1.3	7
59	Multiscale modeling of electron beam and substrate interaction: a new heat source model. <i>Computational Mechanics</i> , 2015, 56, 265-276.	2.2	87
60	Scanning system development and digital beam control method for electron beam selective melting. <i>Rapid Prototyping Journal</i> , 2015, 21, 313-321.	1.6	6
61	Microstructure and mechanical properties of Ti-6Al-4V components fabricated by laser micro cladding deposition. <i>Rare Metals</i> , 2015, 34, 445-451.	3.6	18
62	Effects of scanning parameters on material deposition during Electron Beam Selective Melting of Ti-6Al-4V powder. <i>Journal of Materials Processing Technology</i> , 2015, 217, 148-157.	3.1	80
63	A novel design of extrusion container for large steel tube extrusion process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014, 228, 255-265.	1.5	5
64	Effect of Process Parameters on Microstructure of TiAl Alloy Produced by Electron Beam Selective Melting. <i>Procedia Engineering</i> , 2014, 81, 1192-1197.	1.2	44
65	A catalyst-free, facile and efficient approach to cyclic esters: synthesis of 4H-benzo[d][1,3]dioxin-4-ones. <i>RSC Advances</i> , 2014, 4, 19856-19860.	1.7	12
66	Fabrication of Biomimetic Scaffolds with Oriented Porous Morphology for Cardiac Tissue Engineering. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 1030-1039.	0.0	11
67	Biomimetic injectable HUVEC adipocytes/collagen/alginate microsphere co-cultures for adipose tissue engineering. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1430-1443.	1.7	44
68	A biomimetic physiological model for human adipose tissue by adipocytes and endothelial cell cocultures with spatially controlled distribution. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 045005.	1.7	25
69	ADAM33 protein expression and the mechanics of airway smooth muscle cells are highly correlated in ovalbumin-sensitized rats. <i>Molecular Medicine Reports</i> , 2013, 8, 1209-1215.	1.1	14
70	Modified Gelatin-Based Cell Assembling Process Using Glycerin. <i>Advanced Materials Research</i> , 2012, 476-478, 443-447.	0.3	0
71	Injectable cell/hydrogel microspheres induce the formation of fat lobule-like microtissues and vascularized adipose tissue regeneration. <i>Biofabrication</i> , 2012, 4, 045003.	3.7	35
72	Alginate and alginate/gelatin microspheres for human adipose-derived stem cell encapsulation and differentiation. <i>Biofabrication</i> , 2012, 4, 025007.	3.7	119

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73	A liver analog construct for use as an alcoholic liver disease model. Science Bulletin, 2012, 57, 955-958.	1.7	3
74	Multi-ram Forge Process and Its Equipment Development. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 13.	0.7	7
75	Analysis of the reliability of the dissected frame of heavy equipment. Tsinghua Science and Technology, 2010, 15, 526-533.	4.1	1
76	Digitized dynamic focus control in electron beam. , 2010, , .		0
77	Rapid prototyping and manufacturing technology: Principle, representative technics, applications, and development trends. Tsinghua Science and Technology, 2009, 14, 1-12.	4.1	102
78	Scan strategy in electron beam selective melting. Tsinghua Science and Technology, 2009, 14, 120-126.	4.1	13
79	Fused deposition modelling of an auricle framework for microtia reconstruction based on CT images. Rapid Prototyping Journal, 2008, 14, 280-284.	1.6	25
80	Rheological Properties of Cell-Hydrogel Composites Extruding Through Small-Diameter Tips. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	44
81	Scanning method of filling lines in electron beam selective melting. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 1685-1694.	1.5	20
82	Rapid Prototyping Three-Dimensional Cell/Gelatin/Fibrinogen Constructs for Medical Regeneration. Journal of Bioactive and Compatible Polymers, 2007, 22, 363-377.	0.8	145
83	Three-dimensional Gelatin and Gelatin/Hyaluronan Hydrogel Structures for Traumatic Brain Injury. Journal of Bioactive and Compatible Polymers, 2007, 22, 19-29.	0.8	117
84	Generation of Three-Dimensional Hepatocyte/Gelatin Structures with Rapid Prototyping System. Tissue Engineering, 2006, 12, 83-90.	4.9	330
85	Proliferation and differentiation into endothelial cells of human bone marrow mesenchymal stem cells (MSCs) on poly DL-lactic-co-glycolic acid (PLGA) films. Science Bulletin, 2006, 51, 1328-1333.	1.7	13
86	Construct hepatic analog by cell-matrix controlled assembly technology. Science Bulletin, 2006, 51, 1830-1835.	1.7	11
87	Direct metal part forming of 316L stainless steel powder by electron beam selective melting. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 1845-1853.	1.5	36
88	KEY TECHNOLOGIES OF MODERN HEAVY DIE FORGING PRESS. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2006, 42, 9.	0.7	8
89	Biomanufacturing: A US-China National Science Foundation-Sponsored Workshop. Tissue Engineering, 2006, .	4.9	0
90	Approach of heterogeneous bio-modeling based on material features. CAD Computer Aided Design, 2005, 37, 1115-1126.	1.4	22

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91	Fabrication of viable tissue-engineered constructs with 3D cell-assembly technique. <i>Biomaterials</i> , 2005, 26, 5864-5871.	5.7	265
92	Preliminary results of direct cell-matrix assembly technology. <i>Science Bulletin</i> , 2005, 50, 830-832.	1.7	3
93	Collagen/Chitosan/Heparin Complex with Improved Biocompatibility for Hepatic Tissue Engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2005, 20, 15-28.	0.8	28
94	Preliminary results of direct cell-matrix assembly technology. <i>Science Bulletin</i> , 2005, 50, 830.	1.7	0
95	Preparation and characterization of a collagen/chitosan/heparin matrix for an implantable bioartificial liver. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 1063-1080.	1.9	70
96	Direct Construction of a Three-dimensional Structure with Cells and Hydrogel. <i>Journal of Bioactive and Compatible Polymers</i> , 2005, 20, 259-269.	0.8	128
97	A processing algorithm for freeform fabrication of heterogeneous structures. <i>Rapid Prototyping Journal</i> , 2004, 10, 316-326.	1.6	4
98	Bone Tissue Scaffold Technologies Based on RP Adopted Droplet Assembly. <i>Materials Research Society Symposia Proceedings</i> , 2002, 758, 511.	0.1	0
99	Freeform fabrication of Ti ₃ SiC ₂ powder-based structures. <i>Journal of Materials Processing Technology</i> , 2002, 127, 343-351.	3.1	63
100	Freeform fabrication of Ti ₃ SiC ₂ powder-based structures. <i>Journal of Materials Processing Technology</i> , 2002, 127, 352-360.	3.1	21
101	A decomposition-accumulation model for layered manufacturing fabrication. <i>Rapid Prototyping Journal</i> , 2001, 7, 24-31.	1.6	8
102	Computer Modeling and FEA Simulation for Composite Single Fiber Pull-Out. <i>Journal of Thermoplastic Composite Materials</i> , 2001, 14, 327-343.	2.6	20
103	Warping Analysis in Laminated Object Manufacturing Process. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2001, 123, 739-746.	1.3	9
104	Computer-aided design and modeling of composite unit cells. <i>Composites Science and Technology</i> , 2001, 61, 289-299.	3.8	63
105	Optimization with minimum process error for layered manufacturing fabrication. <i>Rapid Prototyping Journal</i> , 2001, 7, 73-82.	1.6	36
106	Finite Element Analysis for 40 MN Die Forging Press. <i>Advanced Materials Research</i> , 0, 690-693, 2322-2326.	0.3	1