Jerry Ying Hsi Fuh

List of Publications by Citations

165 papers	3,742 citations	32 h-index	52 g-index
179 ext. papers	4,789 ext. citations	4.8 avg, IF	6.08 L-index

#	Paper	IF	Citations
165	An Overview of 3D Printing Technologies for Food Fabrication. *Food and Bioprocess Technology*, **2015**, 8, 1605-1615	5.1	257
164	3D bioprinting of tissues and organs for regenerative medicine. *Advanced Drug Delivery Reviews*, **2018**, 132, 296-332	18.5	232
163	3D bioprinting of skin: a state-of-the-art review on modelling, materials, and processes. *Biofabrication*, **2016**, 8, 032001	10.5	148
162	A modified genetic algorithm for distributed scheduling problems. *Journal of Intelligent Manufacturing*, **2003**, 14, 351-362	6.7	133
161	Extraction and evaluation of melt pool, plume and spatter information for powder-bed fusion AM process monitoring. *Materials and Design*, **2018**, 156, 458-469	8.1	99
160	Defect detection in selective laser melting technology by acoustic signals with deep belief networks. *International Journal of Advanced Manufacturing Technology*, **2018**, 96, 2791-2801	3.2	82
159	Integration of process planning and scheduling by exploring the flexibility of process planning. *International Journal of Production Research*, **2003**, 41, 611-628	7.8	79
158	3D bioprinting of skin tissue: From pre-processing to final product evaluation. *Advanced Drug Delivery Reviews*, **2018**, 132, 270-295	18.5	78
157	Effect of Porosity on Mechanical Properties of 3D Printed Polymers: Experiments and Micromechanical Modeling Based on X-ray Computed Tomography Analysis. *Polymers*, **2019**, 11,	4.5	76
156	Structure and electrical properties of <001> textured (Ba0.85Ca0.15)(Ti0.9Zr0.1)O3 lead-free piezoelectric ceramics. *Applied Physics Letters*, **2012**, 100, 252906	3.4	68
155	Triply Periodic Minimal Surfaces Sheet Scaffolds for Tissue Engineering Applications: An Optimization Approach toward Biomimetic Scaffold Design.. *ACS Applied Bio Materials*, **2018**, 1, 259-269	4.1	61
154	3D-Printed PCL/PPy Conductive Scaffolds as Three-Dimensional Porous Nerve Guide Conduits (NGCs) for Peripheral Nerve Injury Repair. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 266	5.8	58
153	3D-Printed PCL/rGO Conductive Scaffolds for Peripheral Nerve Injury Repair. *Artificial Organs*, **2019**, 43, 515-523	2.6	58
152	In situ monitoring of selective laser melting using plume and spatter signatures by deep belief networks. *ISA Transactions*, **2018**, 81, 96-104	5.5	54
151	Electrohydrodynamic jet 3D-printed PCL/PAA conductive scaffolds with tunable biodegradability as nerve guide conduits (NGCs) for peripheral nerve injury repair. *Materials and Design*, **2019**, 162, 171-184	8.1	54
150	A review on the use of computational methods to characterize, design, and optimize tissue engineering scaffolds, with a potential in 3D printing fabrication. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 1329-1351	3.5	52
149	Study on Shrinkage Behaviour of Direct Laser Sintering Metallic Powder. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2006**, 220, 183-190	2.4	51

148	Topology Optimized Multimaterial Soft Fingers for Applications on Grippers, Rehabilitation, and Artificial Hands. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 120-131	5.5	49
147	Multi-physics modeling and Gaussian process regression analysis of cladding track geometry for direct energy deposition. *Optics and Lasers in Engineering*, **2020**, 127, 105950	4.6	46
146	Structure and properties of hot-pressed lead-free (Ba0.85Ca0.15)(Zr0.1Ti0.9)O3 piezoelectric ceramics. *RSC Advances*, **2013**, 3, 20693	3.7	44
145	Electrohydrodynamic Jet 3D Printed Nerve Guide Conduits (NGCs) for Peripheral Nerve Injury Repair. *Polymers*, **2018**, 10,	4.5	42
144	Thermo-mechanical analyses for optimized path planning in laser aided additive manufacturing processes. *Materials and Design*, **2019**, 162, 80-93	8.1	42
143	Collagen grafted 3D polycaprolactone scaffolds for enhanced cartilage regeneration. *Journal of Materials Chemistry B*, **2013**, 1, 5971-5976	7.3	41
142	Effects of Ca substitution on structure, piezoelectric properties, and relaxor behavior of lead-free Ba(Ti0.9Zr0.1)O3 piezoelectric ceramics. *Journal of Alloys and Compounds*, **2012**, 541, 396-402	5.7	38
141	Direct E-jet printing of three-dimensional fibrous scaffold for tendon tissue engineering. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 616-627	3.5	37
140	Fibre-based scaffolding techniques for tendon tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1798-1821	4.4	37
139	Fabrication of three-dimensional porous scaffolds with controlled filament orientation and large pore size via an improved E-jetting technique. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2014**, 102, 651-8	3.5	35
138	Effect and control of hatch length on material properties in the direct metal laser sintering process. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2005**, 219, 15-25	2.4	35
137	Electrohydrodynamic-jetting (EHD-jet) 3D-printed functionally graded scaffolds for tissue engineering applications. *Journal of Materials Research*, **2018**, 33, 1999-2011	2.5	33
136	Automated process parameter resetting for injection moulding: a fuzzy-neuro approach. *Journal of Intelligent Manufacturing*, **1998**, 9, 17-27	6.7	33
135	Thermal field prediction for laser scanning paths in laser aided additive manufacturing by physics-based machine learning. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 362, 112734	5.7	33
134	Conductive collagen/polypyrrole-b-polycaprolactone hydrogel for bioprinting of neural tissue constructs. *International Journal of Bioprinting*, **2019**, 5, 229	6.2	32
133	Mission planning of autonomous UAVs for urban surveillance with evolutionary algorithms **2013**,		31
132	Photocrosslinkable nanocomposite ink for printing strong, biodegradable and bioactive bone graft. *Biomaterials*, **2020**, 263, 120378	15.6	31
131	Micro injection molding of micro gear using nano-sized zirconia powder. *Microsystem Technologies*, **2009**, 15, 401-406	1.7	30

130	An Enhanced Assembly Planning Approach Using a Multi-Objective Genetic Algorithm. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2006**, 220, 255-272	2.4	30
129	Core and cavity generation method in injection mould design. *International Journal of Production Research*, **2001**, 39, 121-138	7.8	30
128	3D food printing: An innovative way of mass customization in food fabrication. *International Journal of Bioprinting*, **2015**,	6.2	30
127	Crimped fiber with controllable patterns fabricated via electrohydrodynamic jet printing. *Materials and Design*, **2017**, 131, 384-393	8.1	29
126	Toward Effective Mechanical Design Reuse: CAD Model Retrieval Based on General and Partial Shapes. *Journal of Mechanical Design, Transactions of the ASME*, **2009**, 131,	3	29
125	Mechanically-enhanced three-dimensional scaffold with anisotropic morphology for tendon regeneration. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 115	4.5	29
124	An approach to automating modular fixture design and assembly. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **1997**, 211, 509-521	2.4	28
123	Laser Sintering of Silica Sand □Mechanism and Application to Sand Casting Mould. *International Journal of Advanced Manufacturing Technology*, **2003**, 21, 1015-1020	3.2	28
122	Fabrication and evaluation of electrohydrodynamic jet 3D printed polycaprolactone/chitosan cell carriers using human embryonic stem cell-derived fibroblasts. *Journal of Biomaterials Applications*, **2016**, 31, 181-92	2.9	27
121	Effect of Ultrasonic Vibration on Mechanical Properties of 3D Printing Non-Crystalline and Semi-Crystalline Polymers. *Materials*, **2018**, 11,	3.5	27
120	3D Printing and 3D Bioprinting in Pediatrics. *Bioengineering*, **2017**, 4,	5.3	27
119	Automatic Undercut Feature Recognition for Side Core Design of Injection Molds. *Journal of Mechanical Design, Transactions of the ASME*, **2004**, 126, 519-526	3	27
118	An intelligent parameter selection system for the direct metal laser sintering process. *International Journal of Production Research*, **2004**, 42, 183-199	7.8	27
117	Design and Development of a Topology-Optimized Three-Dimensional Printed Soft Gripper. *Soft Robotics*, **2018**, 5, 650-661	9.2	26
116	Design of Three-Dimensional Scaffolds with Tunable Matrix Stiffness for Directing Stem Cell Lineage Specification: An In Silico Study. *Bioengineering*, **2017**, 4,	5.3	26
115	A Six-sigma approach for benchmarking of RP&M processes. *International Journal of Advanced Manufacturing Technology*, **2006**, 31, 374-387	3.2	26
114	Powder-Bed Fusion Process Monitoring by Machine Vision With Hybrid Convolutional Neural Networks. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 5769-5779	11.9	26
113	Fabrication of Ti□□Mg composites by three-dimensional printing of porous Ti and subsequent pressureless infiltration of biodegradable Mg. *Materials Science and Engineering C*, **2020**, 108, 110478	8.3	24

112	High resolution UV roll-to-roll nanoimprinting of resin moulds and subsequent replication via thermal nanoimprint lithography. *Nanotechnology*, **2012**, 23, 485310	3.4	23
111	The investigation of plume and spatter signatures on melted states in selective laser melting. *Optics and Laser Technology*, **2019**, 111, 395-406	4.2	23
110	Evaluation of product assemblability in different assembly sequences using the tolerancing approach. *International Journal of Production Research*, **2006**, 44, 5037-5063	7.8	22
109	Ultrasonic additive manufacturing of bulk Ni-based metallic glass. *Journal of Non-Crystalline Solids*, **2019**, 506, 1-5	3.9	21
108	Characterization of drop-on-demand microdroplet printing. *International Journal of Advanced Manufacturing Technology*, **2010**, 48, 243-250	3.2	21
107	A multi-objective disassembly planning approach with ant colony optimization algorithm. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2008**, 222, 1465-1474	2.4	21
106	Thermal analyses for optimal scanning pattern evaluation in laser aided additive manufacturing. *Journal of Materials Processing Technology*, **2019**, 271, 178-188	5.3	20
105	Design and development of a soft gripper with topology optimization **2017**,		20
104	Selective Laser Sintering of Porous Silica Enabled by Carbon Additive. *Materials*, **2017**, 10,	3.5	20
103	Feature-Based Parametric Design of a Gating System for a Die-Casting Die. *International Journal of Advanced Manufacturing Technology*, **2002**, 19, 821-829	3.2	20
102	Fabrication of microfluidic channel utilizing silicone rubber with vacuum casting. *Microsystem Technologies*, **2008**, 14, 1125-1135	1.7	19
101	Pluronic F127 blended polycaprolactone scaffolds via e-jetting for esophageal tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 140	4.5	18
100	Degradation behaviors of geometric cues and mechanical properties in a 3D scaffold for tendon repair. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1138-1149	5.4	18
99	Automated Assembly Modelling for Plastic Injection Moulds. *International Journal of Advanced Manufacturing Technology*, **2000**, 16, 739-747	3.2	18
98	The role of oxygen pressure and thickness on structure and pyroelectric properties of Ba(Ti0.85Sn0.15)O3 thin films grown by pulsed laser deposition. *Journal of Applied Physics*, **2009**, 105, 084102	2.5	17
97	The manufacture of micromould and microparts by vacuum casting. *International Journal of Advanced Manufacturing Technology*, **2008**, 38, 944-948	3.2	17
96	A Review of Post-Processing Technologies in Additive Manufacturing. *Journal of Manufacturing and Materials Processing*, **2021**, 5, 38	2.2	17
95	Functions and applications of metallic and metallic oxide nanoparticles in orthopedic implants and scaffolds. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2021**, 109, 160-179	3.5	17

94	Abnormal grain growth of WC with small amount of cobalt. *Philosophical Magazine*, **2007**, 87, 5657-5671	1.6	16
93	Investigation of process parameters of electrohydro-dynamic jetting for 3D printed PCL fibrous scaffolds with complex geometries. *International Journal of Bioprinting*, **2016**, 2,	6.2	16
92	Processing and characterization of laser-sintered Al2O3/ZrO2/SiO2. *International Journal of Advanced Manufacturing Technology*, **2013**, 68, 2565-2569	3.2	15
91	An effective dual-factor modified 3D-printed PCL scaffold for bone defect repair. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 2167-2179	3.5	15
90	A Heuristic Mission Planning Algorithm for Heterogeneous Tasks with Heterogeneous UAVs. *Unmanned Systems*, **2015**, 03, 205-219	3	14
89	Cooperative Mission Planning with Multiple UAVs in Realistic Environments. *Unmanned Systems*, **2014**, 02, 73-86	3	14
88	Deposition and characterization of a dual-layer silicon- and silver-containing hydroxyapatite coating via a drop-on-demand technique. *RSC Advances*, **2013**, 3, 11162	3.7	14
87	Electrophoretic-deposited CNT/MnO2composites for high-power electrochemical energy storage/conversion applications. *Physica Scripta*, **2010**, T139, 014008	2.6	14
86	An Integrated Approach to Collision-Free Computer-Aided Modular Fixture Design. *International Journal of Advanced Manufacturing Technology*, **2000**, 16, 233-242	3.2	14
85	A study of Titanium and Magnesium particle-induced oxidative stress and toxicity to human osteoblasts. *Materials Science and Engineering C*, **2020**, 117, 111285	8.3	14
84	Dry mechanical-electrochemical polishing of selective laser melted 316L stainless steel. *Materials and Design*, **2020**, 193, 108840	8.1	13
83	Time-optimal tool motion planning with tool-tip kinematic constraints for robotic machining of sculptured surfaces. *Robotics and Computer-Integrated Manufacturing*, **2020**, 65, 101969	9.2	13
82	A hybrid 3D-printed aspirin-laden liposome composite scaffold for bone tissue engineering. *Journal of Materials Chemistry B*, **2019**, 7, 619-629	7.3	12
81	Topology optimized design, fabrication and evaluation of a multimaterial soft gripper **2018**,		12
80	UAV surveillance mission planning with gimbaled sensors **2014**,		12
79	Fabrication of bio-inspired composite coatings for titanium implants using the micro-dispensing technique. *Microsystem Technologies*, **2012**, 18, 2041-2051	1.7	12
78	A Volumetric Difference-based Adaptive Slicing and Deposition Method for Layered Manufacturing. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2003**, 125, 586-594	3.3	12
77	3D Printing Personalized, Photocrosslinkable Hydrogel Wound Dressings for the Treatment of Thermal Burns. *Advanced Functional Materials*,2105932	15.6	12

76	A hybrid electrospinning and electrospraying 3D printing for tissue engineered scaffolds. *Rapid Prototyping Journal*, **2017**, 23, 1011-1019	3.8	11
75	Removability of 316L stainless steel cone and block support structures fabricated by Selective Laser Melting (SLM). *Materials and Design*, **2020**, 191, 108691	8.1	11
74	Computational Design and Optimization of Nerve Guidance Conduits for Improved Mechanical Properties and Permeability. *Journal of Biomechanical Engineering*, **2019**,	2.1	10
73	An RBF neural network approach to geometric error compensation with displacement measurements only. *Neural Computing and Applications*, **2017**, 28, 1235-1248	4.8	9
72	Evanescent wave interference lithography for surface nano-structuring. *Physica Scripta*, **2007**, T129, 35-37	2.6	9
71	Formation of Fe□u metal parts using direct laser sintering. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2003**, 217, 139-147	1.3	9
70	Development of a semi-automated die casting die design system. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2002**, 216, 1575-1588	2.4	9
69	A Digraphic Approach for Dimensional Chain Identification in Design and Manufacturing. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **1996**, 118, 539-544	3.3	9
68	Job rescheduling by exploring the solution space of process planning for machine breakdown/arrival problems. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2011**, 225, 282-296	2.4	9
67	Synthesis methods of functionalized nanoparticles: a review. *Bio-Design and Manufacturing*, **2021**, 4, 379-404	4.7	9
66	Fabrication of 3D Scaffolds via E-Jet Printing for Tendon Tissue Repair **2015**,		8
65	LASER DICING OF SILICON WAFER. *Surface Review and Letters*, **2008**, 15, 153-159	1.1	8
64	Design Modification in a Collaborative Assembly Design Environment. *Journal of Computing and Information Science in Engineering*, **2006**, 6, 200-208	2.4	8
63	An efficient cutter contact curve tool path regeneration algorithm for sculptured surface machining. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2004**, 218, 389-402	2.4	8
62	Towards intelligent setting of process parameters for layered manufacturing. *Journal of Intelligent Manufacturing*, **2000**, 11, 65-74	6.7	8
61	Vibration-assisted conformal polishing of additively manufactured structured surface. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2019**, 233, 4154-4164	1.3	8
60	Semi-supervised deep learning based framework for assessing manufacturability of cellular structures in direct metal laser sintering process. *Journal of Intelligent Manufacturing*, **2021**, 32, 347-359	6.7	8
59	Electrochemical Treatment of ITO Surface for Performance Improvement of Organic Light-Emitting Diode. *Electrochemical and Solid-State Letters*, **2006**, 9, H39		7

58	The effect of support structures on maraging steel MS1 parts fabricated by selective laser melting at different building angles. *Rapid Prototyping Journal*, **2020**, 26, 1465-1476	3.8	7
57	Multi-physics modeling of direct energy deposition process of thin-walled structures: defect analysis. *Computational Mechanics*, **2021**, 67, 1229-1242	4	7
56	3D bioprinting and microscale organization of vascularized tissue constructs using collagen-based bioink. *Biotechnology and Bioengineering*, **2021**, 118, 3150-3163	4.9	7
55	Numerical modelling of surface morphology in selective laser melting. *Computational Materials Science*, **2021**, 186, 110062	3.2	7
54	Experimental characterization and micromechanical-statistical modeling of 316L stainless steel processed by selective laser melting. *Computational Materials Science*, **2020**, 177, 109595	3.2	6
53	Multi-functional silicone stamps for reactive release agent transfer in UV roll-to-roll nanoimprinting. *Materials Horizons*, **2016**, 3, 152-160	14.4	6
52	Cooperative task planning for multiple autonomous UAVs with graph representation and genetic algorithm **2013**,		6
51	Negotiation-Based Task Allocation in an Open Supply Chain Environment. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2006**, 220, 975-985	2.4	6
50	Dimensional measurement of 3D microstruture based on white light interferometer. *Journal of Physics: Conference Series*, **2007**, 48, 1435-1446	0.3	6
49	Optimal cutter selection for complex three-axis NC mould machining. *International Journal of Production Research*, **2004**, 42, 4785-4801	7.8	6
48	Integrated numerical modelling and deep learning for multi-layer cube deposition planning in laser aided additive manufacturing. *Virtual and Physical Prototyping*, **2021**, 16, 318-332	10.1	6
47	Taguchi© methods to optimize the properties and bioactivity of 3D printed polycaprolactone/mineral trioxide aggregate scaffold: Theoretical predictions and experimental validation. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 629-637	3.5	6
46	Numerical modelling of keyhole formation in selective laser melting of Ti6Al4V. *Journal of Manufacturing Processes*, **2021**, 62, 646-654	5	6
45	Homogeneous cell printing on porous PCL/F127 tissue engineering scaffolds. *Bioprinting*, **2018**, 12, e00030	7	6
44	Mission planning for heterogeneous tasks with heterogeneous UAVs **2014**,		5
43	SYNTHESIS OF ANISOTROPIC LEAD TITANATE POWDERS FOR TEMPLATED GRAIN GROWTH OF TEXTURED PIEZOELECTRIC CERAMICS. *Surface Review and Letters*, **2010**, 17, 159-164	1.1	5
42	Performance characterization of drop-on-demand micro-dispensing system with multi-printheads. *Microsystem Technologies*, **2010**, 16, 2087-2097	1.7	5
41	An integrated approach to reactive scheduling subject to machine breakdown **2008**,		5

40	Auto-generation of patch surfaces for injection mould design. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2001**, 215, 105-110	2.4	5
39	Material Characterization of Photo-Fabrication Process. *Materials and Manufacturing Processes*, **1995**, 10, 653-666	4.1	5
38	Metal-based additive manufacturing condition monitoring methods: From measurement to control. *ISA Transactions*, **2021**,	5.5	5
37	Guest Editorial Special Section on Big Data Analytics in Intelligent Manufacturing. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 2382-2385	11.9	4
36	A biologically inspired hierarchical PCL/F127 scaffold for esophagus tissue repair. *Materials Letters*, **2019**, 243, 132-135	3.3	4
35	Intelligent modeling and monitoring of micro-droplet profiles in 3D printing. *ISA Transactions*, **2020**, 105, 367-376	5.5	3
34	Formation of Micromoulds via UV Lithography of SU8 Photoresist and Nickel Electrodeposition. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2006**, 220, 329-333	2.4	3
33	Fabricating scalable, personalized wound dressings with customizable drug loadings via 3D printing. *Journal of Controlled Release*, **2021**, 341, 80-94	11.7	3
32	Can Polyether Ether Ketone Dethrone Titanium as the Choice Implant Material for Metastatic Spine Tumor Surgery?. *World Neurosurgery*, **2021**, 148, 94-109	2.1	3
31	Experiments on the Ultrasonic Bonding Additive Manufacturing of Metallic Glass and Crystalline Metal Composite. *Materials*, **2019**, 12,	3.5	3
30	A novel method to improve the removability of cone support structures in selective laser melting of 316L stainless steel. *Journal of Alloys and Compounds*, **2021**, 854, 157133	5.7	3
29	A comparative investigation on the mechanical properties and cytotoxicity of Cubic, Octet, and TPMS gyroid structures fabricated by selective laser melting of stainless steel 316L.. *Journal of the Mechanical Behavior of Biomedical Materials*, **2022**, 129, 105151	4.1	3
28	A miniaturized device for biomembrane permeation analysis. *Materials Science and Engineering C*, **2019**, 103, 109772	8.3	2
27	Investigation on Developing a Topology Optimized and 3D Printable Multimaterial Soft Gripper **2018**,		2
26	Crimped Fiber Printing via E-Jetting for Tissue Engineering **2017**,		2
25	An Ant Colony Optimization Approach to Disassembly Planning **2008**,		2
24	A web-based assembly planning approach. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2008**, 222, 427-440	2.4	2
23	A Fine Granular Concurrency Control Mechanism for a Peer-to-Peer Cooperative Design Environment **2007**,		2

22	Microstructure and properties of Fe-base alloy fabricated using selective laser melting **2002**, 4426, 139		2
21	Laser Sintering of Sand and Its Application in Rapid Tooling **2002**, 771-778		2
20	Design and Multicenter Clinical Validation of a 3-Dimensionally Printed Nasopharyngeal Swab for SARS-CoV-2 Testing. *JAMA Otolaryngology - Head and Neck Surgery*, **2021**, 147, 418-425	3.9	2
19	Porous Li2O Al2O3SiO2(LAS) Glass-Ceramics Prepared by Selective Laser Melting and Annealing. *Ceramic Engineering and Science Proceedings*,523-528	0.1	2
18	Effect of Needle Diameter on Scaffold Morphology and Strength in E-Jetted Polycaprolactone Scaffolds **2017**,		1
17	FABRICATION OF FUNCTIONALLY GRADED HYDROXYAPATITE/TITANIUM OXIDE COATING VIA DROP-ON-DEMAND TECHNIQUE. *Nano LIFE*, **2012**, 02, 1250009	0.9	1
16	General and Partial Shape Matching Approaches on Feature-Based CAD Models to Support Efficient Part Retrieval **2008**,		1
15	Modelling, Analysis and Fabrication of Below-knee Prosthetic Sockets Using Rapid Prototyping **2006**, 207-226		1
14	Emerging trends and prospects of electroconductive bioinks for cell-laden and functional 3D bioprinting. *Bio-Design and Manufacturing*, **2022**, 5, 396	4.7	1
13	Motion feature based melt pool monitoring for selective laser melting process. *Journal of Materials Processing Technology*, **2022**, 303, 117523	5.3	1
12	Metal-Based Additive Manufacturing Condition Monitoring: A Review on Machine Learning Based Approaches. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-16	5.5	1
11	The Thermo-Mechanical Coupling Effect in Selective Laser Melting of Aluminum Alloy Powder. *Materials*, **2021**, 14,	3.5	1
10	Evolution of materials for implants in metastatic spine disease till date - Have we found an ideal material?. *Radiotherapy and Oncology*, **2021**, 163, 93-104	5.3	1
9	Evaluation and characterization of nitinol stents produced by selective laser melting with various process parameters. *Progress in Additive Manufacturing*,1	5	1
8	Effects of statistical pore characteristics on mechanical performance of selective laser melted parts: X-ray computed tomography and micromechanical modeling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 834, 142515	5.3	0
7	Multiscale topology optimisation with nonparametric microstructures using three-dimensional convolutional neural network (3D-CNN) models. *Virtual and Physical Prototyping*, **2021**, 16, 306-317	10.1	0
6	Articulated 3D model matching using multi-scale histograms of shape features for customized additive manufacturing. *Computers in Industry*, **2021**, 132, 103520	11.6	0
5	Collaborative assembly design **2011**, 35-63		

List of Publications

4 Collaborative assembly planning **2011**, 165-182

3 Advanced assembly planning approach using a multi-objective genetic algorithm **2011**, 107-146

2 Evaluation of product assemblability in different assembly sequences **2011**, 65-105

1 Direct Laser Sintering of Cu-based Metallic Powder for Injection Moulding **2002**, 779-784