

Liang Hao

List of Publications by Year in descending order

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259
papers

11,372
citations

47006

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33894

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263
all docs

263
docs citations

263
times ranked

11126
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface roughness analysis, modelling and prediction in selective laser melting. Journal of Materials Processing Technology, 2013, 213, 589-597.	6.3	650
2	Additive manufacturing: A framework for implementation. International Journal of Production Economics, 2014, 149, 194-201.	8.9	559
3	Finite element simulation of the temperature and stress fields in single layers built without-support in selective laser melting. Materials & Design, 2013, 52, 638-647.	5.1	517
4	Evaluations of cellular lattice structures manufactured using selective laser melting. International Journal of Machine Tools and Manufacture, 2012, 62, 32-38.	13.4	516
5	TiAl ₄ V triply periodic minimal surface structures for bone implants fabricated via selective laser melting. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 51, 61-73.	3.1	492
6	Advanced lightweight 316L stainless steel cellular lattice structures fabricated via selective laser melting. Materials & Design, 2014, 55, 533-541.	5.1	458
7	Mechanism for the endocytosis of spherical nucleic acid nanoparticle conjugates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7625-7630.	7.1	446
8	Advanced lattice support structures for metal additive manufacturing. Journal of Materials Processing Technology, 2013, 213, 1019-1026.	6.3	337
9	A new approach to the design and optimisation of support structures in additive manufacturing. International Journal of Advanced Manufacturing Technology, 2013, 66, 1247-1254.	3.0	276
10	Evaluation of light-weight AlSi10Mg periodic cellular lattice structures fabricated via direct metal laser sintering. Journal of Materials Processing Technology, 2014, 214, 856-864.	6.3	260
11	Microstructure and mechanical properties of aluminium alloy cellular lattice structures manufactured by direct metal laser sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 238-246.	5.6	241
12	Lattice Boltzmann simulations of anisotropic permeabilities in carbon paper gas diffusion layers. Journal of Power Sources, 2009, 186, 104-114.	7.8	202
13	Material characterisation and process development for chocolate additive layer manufacturing. Virtual and Physical Prototyping, 2010, 5, 57-64.	10.4	187
14	Selective laser melting of a stainless steel and hydroxyapatite composite for load-bearing implant development. Journal of Materials Processing Technology, 2009, 209, 5793-5801.	6.3	184
15	Run-out analysis of flow-like landslides triggered by the Ms 8.0 2008 Wenchuan earthquake using smoothed particle hydrodynamics. Landslides, 2012, 9, 275-283.	5.4	177
16	Preparation, characterisation and processing of carbon fibre/polyamide-12 composites for selective laser sintering. Composites Science and Technology, 2011, 71, 1834-1841.	7.8	168
17	Lattice Boltzmann simulations of water transport in gas diffusion layer of a polymer electrolyte membrane fuel cell. Journal of Power Sources, 2010, 195, 3870-3881.	7.8	148
18	Effect of Al alloys on selective laser melting behaviour and microstructure of in situ formed particle reinforced composites. Journal of Alloys and Compounds, 2012, 541, 328-334.	5.5	138

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19	Pore-scale simulations on relative permeabilities of porous media by lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 1908-1913.	4.8	135
20	Fracture toughness and tensile strength of 316L stainless steel cellular lattice structures manufactured using the selective laser melting technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 669, 1-6.	5.6	135
21	On the role of microstructure form and dimension in surface energy changes in a magnesia partially stabilized zirconia bioceramic following CO ₂ laser irradiation. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 86-92.	2.8	126
22	Effect of selective laser melting layout on the quality of stainless steel parts. <i>Rapid Prototyping Journal</i> , 2012, 18, 241-249.	3.2	111
23	Observation of a fast evolution in a parity-time-symmetric system. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120053.	3.4	106
24	G β 13 negatively controls osteoclastogenesis through inhibition of the Akt-GSK3 β -NFATc1 signalling pathway. <i>Nature Communications</i> , 2017, 8, 13700.	12.8	105
25	microRNA-31/factor-inhibiting hypoxia-inducible factor 1 nexus regulates keratinocyte differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14030-14034.	7.1	102
26	Investigating the feasibility of supply chain-centric business models in 3D chocolate printing: A simulation study. <i>Technological Forecasting and Social Change</i> , 2016, 102, 202-213.	11.6	102
27	Lattice Boltzmann simulations of liquid droplet dynamic behavior on a hydrophobic surface of a gas flow channel. <i>Journal of Power Sources</i> , 2009, 190, 435-446.	7.8	101
28	Osteoblast cell adhesion on a laser modified zirconia based bioceramic. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 719-726.	3.6	100
29	Selective laser melting of stainless-steel/nano-hydroxyapatite composites for medical applications: Microstructure, element distribution, crack and mechanical properties. <i>Journal of Materials Processing Technology</i> , 2015, 222, 444-453.	6.3	98
30	Microstructural and surface modifications and hydroxyapatite coating of Ti-6Al-4V triply periodic minimal surface lattices fabricated by selective laser melting. <i>Materials Science and Engineering C</i> , 2017, 75, 1515-1524.	7.3	94
31	Scanning probe-enabled nanocombinatorics define the relationship between fibronectin feature size and stem cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4377-4382.	7.1	92
32	Selective Laser Sintering of Hydroxyapatite Reinforced Polyethylene Composites for Bioactive Implants and Tissue Scaffold Development. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2006, 220, 521-531.	1.8	89
33	Eavesdropping in a quantum secret sharing protocol based on Grover algorithm and its solution. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 491-495.	5.1	85
34	Experimental Investigation on Selective Laser Melting of Bulk Net-Shape Pure Magnesium. <i>Materials and Manufacturing Processes</i> , 2015, 30, 1298-1304.	4.7	76
35	Experimental investigation on selective laser melting behaviour and processing windows of in situ reacted Al/Fe ₂ O ₃ powder mixture. <i>Powder Technology</i> , 2012, 231, 112-121.	4.2	75
36	On the correlation between Nd:YAG laser-induced wettability characteristics modification and osteoblast cell bioactivity on a titanium alloy. <i>Surface and Coatings Technology</i> , 2006, 200, 5581-5589.	4.8	68

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37	C/EBP β regulates osteoclast lineage commitment. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7294-7299.	7.1	67
38	Surface finish improvement of LMD samples using laser polishing. Virtual and Physical Prototyping, 2010, 5, 215-221.	10.4	65
39	Capillary pressures in carbon paper gas diffusion layers having hydrophilic and hydrophobic pores. International Journal of Heat and Mass Transfer, 2012, 55, 133-139.	4.8	60
40	Deficiency of cathepsin K prevents inflammation and bone erosion in rheumatoid arthritis and periodontitis and reveals its shared osteoimmune role. FEBS Letters, 2015, 589, 1331-1339.	2.8	59
41	Enhanced human osteoblast cell adhesion and proliferation on 316 LS stainless steel by means of CO ₂ laser surface treatment. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 73B, 148-156.	3.4	55
42	<i>In vitro</i> biocompatibility of hydroxyapatite reinforced polymeric composites manufactured by selective laser sintering. Journal of Biomedical Materials Research - Part A, 2009, 91A, 1018-1027.	4.0	55
43	Indirect selective laser sintering of epoxy resin-Al ₂ O ₃ ceramic powders combined with cold isostatic pressing. Ceramics International, 2014, 40, 7099-7106.	4.8	55
44	Manipulation of the osteoblast response to a Ti-6Al-4V titanium alloy using a high power diode laser. Applied Surface Science, 2005, 247, 602-606.	6.1	53
45	The effects and interactions of fabrication parameters on the properties of selective laser sintered hydroxyapatite polyamide composite biomaterials. Rapid Prototyping Journal, 2012, 18, 16-27.	3.2	52
46	An experimental and numerical study of forced convection in a microchannel with negligible axial heat conduction. International Journal of Heat and Mass Transfer, 2009, 52, 1070-1074.	4.8	51
47	Effects of CO ₂ laser irradiation on the wettability and human skin fibroblast cell response of magnesia partially stabilised zirconia. Materials Science and Engineering C, 2003, 23, 627-639.	7.3	50
48	Inhibiting Periapical Lesions through AAV-RNAi Silencing of Cathepsin K. Journal of Dental Research, 2013, 92, 180-186.	5.2	46
49	CO ₂ laser modification of the wettability characteristics of a magnesia partially stabilized zirconia bioceramic. Journal Physics D: Applied Physics, 2003, 36, 1292-1299.	2.8	45
50	Effects of CO ₂ Laser Irradiation on the Surface Properties of Magnesia-Partially Stabilised Zirconia (MgO-PSZ) Bioceramic and the Subsequent Improvements in Human Osteoblast Cell Adhesion. Journal of Biomaterials Applications, 2004, 19, 81-105.	2.4	44
51	The wettability modification of bio-grade stainless steel in contact with simulated physiological liquids by the means of laser irradiation. Applied Surface Science, 2005, 247, 453-457.	6.1	44
52	Effects of Nd:YAG laser treatment on the wettability characteristics of a zirconia-based bioceramic. Optics and Lasers in Engineering, 2006, 44, 803-814.	3.8	44
53	Characterization and dynamic mechanical analysis of selective laser sintered hydroxyapatite filled polymeric composites. Journal of Biomedical Materials Research - Part A, 2008, 86A, 607-616.	4.0	44
54	Quantum secret sharing protocol with four state Grover algorithm and its proof-of-principle experimental demonstration. Optics Communications, 2011, 284, 3639-3642.	2.1	44

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55	Investigation into the Differences in the Selective Laser Sintering between Amorphous and Semi-crystalline Polymers. <i>International Polymer Processing</i> , 2011, 26, 416-423.	0.5	43
56	Multi-objective optimization of selective laser sintering processes for surface quality and energy saving. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2011, 225, 1673-1682.	2.4	42
57	In Situ Formation of Particle Reinforced Al Matrix Composite by Selective Laser Melting of Al/Fe ₂ O ₃ Powder Mixture. <i>Advanced Engineering Materials</i> , 2012, 14, 45-48.	3.5	42
58	Electron Shock Ignition of Inertial Fusion Targets. <i>Physical Review Letters</i> , 2017, 119, 195001.	7.8	42
59	Fabrication of porous bioactive structures using the selective laser sintering technique. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2007, 221, 873-886.	1.8	41
60	Odanacatib, A Cathepsin K-specific Inhibitor, Inhibits Inflammation and Bone Loss Caused by Periodontal Diseases. <i>Journal of Periodontology</i> , 2015, 86, 972-983.	3.4	41
61	Oxide scale characterization of ferritic stainless steel and its deformation and friction in hot rolling. <i>Tribology International</i> , 2015, 84, 61-70.	5.9	41
62	Experimental investigation into selective laser melting of austenitic and martensitic stainless steel powder mixtures. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2009, 223, 1409-1416.	2.4	40
63	The adsorption of human serum albumin (HSA) on CO ₂ laser modified magnesia partially stabilised zirconia (MgO-PSZ). <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 34, 87-94.	5.0	39
64	Effect of hot isostatic pressing (HIP) on Al composite parts made from laser consolidated Al/Fe ₂ O ₃ powder mixtures. <i>Journal of Materials Processing Technology</i> , 2012, 212, 2474-2483.	6.3	38
65	Evaluation of CO ₂ and Nd:YAG Lasers for the Selective Laser Sintering of HAPEX [®] . <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006, 220, 171-182.	2.4	37
66	QUANTUM DIRECT COMMUNICATION BASED ON QUANTUM SEARCH ALGORITHM. <i>International Journal of Quantum Information</i> , 2010, 08, 443-450.	1.1	36
67	A Small Molecule, Odanacatib, Inhibits Inflammation and Bone Loss Caused by Endodontic Disease. <i>Infection and Immunity</i> , 2015, 83, 1235-1245.	2.2	36
68	Modeling of Ion Crossover in an All-Vanadium Redox Flow Battery with the Interfacial Effect at Membrane/Electrode Interfaces. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1310-A1322.	2.9	35
69	Inhibition of Ctsk modulates periodontitis with arthritis via downregulation of TLR9 and autophagy. <i>Cell Proliferation</i> , 2020, 53, e12722.	5.3	35
70	Flow injection chemiluminescence determination of nitrofurazone in pharmaceutical preparations and biological fluids based on oxidation by singlet oxygen generated in N-bromosuccinimide-hydrogen peroxide reaction. <i>Analytica Chimica Acta</i> , 2007, 582, 98-102.	5.4	34
71	Effect of Layer Thickness in Selective Laser Melting on Microstructure of Al/5wt.%Fe ₂ O ₃ Powder Consolidated Parts. <i>Scientific World Journal</i> , The, 2014, 2014, 1-10.	2.1	33
72	The silencing of cathepsin K used in gene therapy for periodontal disease reveals the role of cathepsin K in chronic infection and inflammation. <i>Journal of Periodontal Research</i> , 2016, 51, 647-660.	2.7	33

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73	Fabrication of oxygen-deficient TiO ₂ coatings with nano-fiber morphology for visible-light photocatalysis. <i>Materials Science in Semiconductor Processing</i> , 2016, 41, 358-363.	4.0	33
74	An analytical model for micro-droplet steady movement on the hydrophobic wall of a micro-channel. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 1243-1246.	4.8	32
75	A four-zone model for saturated flow boiling in a microchannel of rectangular cross-section. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3439-3448.	4.8	32
76	Competition between the stimulated Raman and Brillouin scattering under the strong damping condition. <i>Laser and Particle Beams</i> , 2013, 31, 203-209.	1.0	32
77	Ultrasonic-assisted in-situ fabrication of BiOBr modified Bi ₂ O ₂ CO ₃ microstructure with enhanced photocatalytic performance. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 137-145.	8.2	32
78	Inhibition of Rgs10 Expression Prevents Immune Cell Infiltration in Bacteria-induced Inflammatory Lesions and Osteoclast-mediated Bone Destruction. <i>Bone Research</i> , 2013, 1, 267-281.	11.4	31
79	Validation of a two-phase multidimensional polymer electrolyte membrane fuel cell computational model using current distribution measurements. <i>Journal of Power Sources</i> , 2013, 236, 126-137.	7.8	30
80	Wettability modification and the subsequent manipulation of protein adsorption on a Ti6Al4V alloy by means of CO ₂ laser surface treatment. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 807-817.	3.6	29
81	Comparative Evaluation of Cytokines in Gingival Crevicular Fluid and Saliva of Patients with Aggressive Periodontitis. <i>International Journal of Biological Markers</i> , 2013, 28, 108-112.	1.8	29
82	RNA Interference-Mediated Silencing of <i>Atp6i</i> Prevents Both Periapical Bone Erosion and Inflammation in the Mouse Model of Endodontic Disease. <i>Infection and Immunity</i> , 2013, 81, 1021-1030.	2.2	28
83	Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. <i>Physical Review E</i> , 2017, 95, 031202.	2.1	28
84	Recent research progress of laser plasma interactions in Shengguang laser facilities. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	3.9	28
85	The influence of the processing parameters on the formation of iron thin films on alumina balls by mechanical coating technique. <i>Journal of Materials Processing Technology</i> , 2012, 212, 1169-1176.	6.3	27
86	Experimental simulation of quantum tunneling in small systems. <i>Scientific Reports</i> , 2013, 3, 2232.	3.3	27
87	Analysis of stimulated Raman backscatter and stimulated Brillouin backscatter in experiments performed on SG-III prototype facility with a spectral analysis code. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	27
88	RNAi-Mediated Silencing of <i>Atp6i</i> and <i>Atp6i</i> Haploinsufficiency Prevents Both Bone Loss and Inflammation in a Mouse Model of Periodontal Disease. <i>PLoS ONE</i> , 2013, 8, e58599.	2.5	27
89	Effect of Cu powder addition on thermoelectric properties of Cu/TiO ₂ composites. <i>Ceramics International</i> , 2013, 39, 6689-6694.	4.8	26
90	Inhibition of <i>Ctsk</i> alleviates periodontitis and comorbid rheumatoid arthritis via downregulation of the TLR9 signalling pathway. <i>Journal of Clinical Periodontology</i> , 2019, 46, 286-296.	4.9	26

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91	Traumatic occlusion aggravates bone loss during periodontitis and activates Hippo \rightarrow YAP pathway. <i>Journal of Clinical Periodontology</i> , 2019, 46, 438-447.	4.9	26
92	Fabrication of zinc coatings on alumina balls from zinc powder by mechanical coating technique and the process analysis. <i>Powder Technology</i> , 2012, 228, 377-384.	4.2	24
93	Oxygen vacancies in TiO ₂ /SnO coatings prepared by ball milling followed by calcination and their influence on the photocatalytic activity. <i>Applied Surface Science</i> , 2019, 466, 490-497.	6.1	24
94	Enhancing osteoblast functions on a magnesia partially stabilised zirconia bioceramic by means of laser irradiation. <i>Materials Science and Engineering C</i> , 2005, 25, 496-502.	7.3	23
95	An N/4 fixed-point duality quantum search algorithm. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1765-1768.	5.1	23
96	CO ₂ laser induced microstructure features in magnesia partially stabilised zirconia bioceramic and effects thereof on the wettability characteristics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 364, 171-181.	5.6	22
97	Analysis on energy transfer during mechanical coating and ball milling \rightarrow Supported by electric power measurement in planetary ball mill. <i>International Journal of Mineral Processing</i> , 2013, 121, 51-58.	2.6	22
98	Review on the Photocatalyst Coatings of TiO ₂ : Fabrication by Mechanical Coating Technique and Its Application. <i>Coatings</i> , 2015, 5, 425-464.	2.6	22
99	Low \rightarrow intensity pulsed ultrasound upregulates pro \rightarrow myelination indicators of Schwann cells enhanced by co \rightarrow culture with adipose \rightarrow derived stem cells. <i>Cell Proliferation</i> , 2016, 49, 720-728.	5.3	22
100	Activation of the STAT1 Pathway Accelerates Periodontitis in Nos3 \rightarrow -Mice. <i>Journal of Dental Research</i> , 2019, 98, 1027-1036.	5.2	21
101	Characterization of selective laser-sintered hydroxyapatite-based biocomposite structures for bone replacement. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 1857-1869.	2.1	20
102	Electrospun P34HB fibres: a scaffold for tissue engineering. <i>Cell Proliferation</i> , 2014, 47, 465-475.	5.3	20
103	Angiotensin II induces mitochondrial dysfunction and promotes apoptosis via JNK signalling pathway in primary mouse calvaria osteoblast. <i>Archives of Oral Biology</i> , 2014, 59, 513-523.	1.8	20
104	Behavior of quantum coherence of \hat{I} -type four-level atom under bang \rightarrow bang control. <i>Optics Communications</i> , 2008, 281, 4793-4799.	2.1	19
105	Angiotensin II induces interleukin-6 synthesis in osteoblasts through ERK1/2 pathway via AT1 receptor. <i>Archives of Oral Biology</i> , 2011, 56, 205-211.	1.8	18
106	Fabrication of Non-Stoichiometric Titanium Dioxide by Spark Plasma Sintering and Its Thermoelectric Properties. <i>Materials Transactions</i> , 2012, 53, 1208-1211.	1.2	18
107	Correlation of epigenetic change and identification of risk factors for oral submucous fibrosis. <i>International Journal of Biological Markers</i> , 2012, 27, 314-321.	1.8	18
108	Application of Interleukin-1 Genes and Proteins to Monitor the Status of Chronic Periodontitis. <i>International Journal of Biological Markers</i> , 2013, 28, 92-99.	1.8	18

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109	Synthesis of zinc-nickel ferrite nanorods and their magnetic properties. RSC Advances, 2014, 4, 15650-15654.	3.6	18
110	Effect of Fe ₂ O ₃ content on microstructure of Al powder consolidated parts via selective laser melting using various laser powers and speeds. International Journal of Advanced Manufacturing Technology, 2014, 73, 1453-1463.	3.0	17
111	Influence of oxidation process on photocatalytic activity of photocatalyst coatings by mechanical coating technique. Materials Science in Semiconductor Processing, 2015, 30, 128-134.	4.0	17
112	Enhanced photocatalytic activity of photocatalyst coatings by heat treatment in carbon atmosphere. Materials Letters, 2016, 167, 43-46.	2.6	17
113	Low-temperature S-doping on N-doped TiO ₂ films and remarkable enhancement on visible-light performance. Materials Research Bulletin, 2019, 120, 110594.	5.2	17
114	Solar-responsive photocatalytic activity of amorphous TiO ₂ nanotube-array films. Materials Science in Semiconductor Processing, 2019, 89, 161-169.	4.0	17
115	Simulation of stimulated Brillouin scattering and stimulated Raman scattering in shock ignition. Physics of Plasmas, 2016, 23, 042702.	1.9	16
116	Magn ^{li} phase Ti O ₂ -1 bulks prepared by SPS followed by carbon reduction and their thermoelectric performance. Journal of Alloys and Compounds, 2017, 722, 846-851.	5.5	16
117	Nonlinear fluid simulation study of stimulated Raman and Brillouin scatterings in shock ignition. Physics of Plasmas, 2017, 24, .	1.9	16
118	Lysyl oxidases expression and histopathological changes of the diabetic rat nephron. Molecular Medicine Reports, 2018, 17, 2431-2441.	2.4	16
119	Fast identification of resonance characteristic for 2-mass system with elastic load. , 2014, , .		15
120	Ac45 silencing mediated by AAV-shAc45-RNAi prevents both bone loss and inflammation caused by periodontitis. Journal of Clinical Periodontology, 2015, 42, 599-608.	4.9	15
121	Investigation of oxide scale on ferritic stainless steel B445J1M and its tribological effect in hot rolling. Wear, 2015, 338-339, 178-188.	3.1	15
122	Multi-objective layout optimization of a satellite module using the Wang-Landau sampling method with local search. Frontiers of Information Technology and Electronic Engineering, 2016, 17, 527-542.	2.6	15
123	Synthesis and electrochemical performances of mixed-valence vanadium oxide/ordered mesoporous carbon composites for supercapacitors. RSC Advances, 2016, 6, 25056-25061.	3.6	15
124	Albumin and fibronectin protein adsorption on CO ₂ -laser-modified biograde stainless steel. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2006, 220, 47-55.	1.8	14
125	Experimental implementation of a fixed-point duality quantum search algorithm in the nuclear magnetic resonance quantum system. Science China: Physics, Mechanics and Astronomy, 2011, 54, 936-941.	5.1	14
126	Photocatalytic activity of TiO ₂ /Ti composite coatings fabricated by mechanical coating technique and subsequent heat oxidation. Materials Science in Semiconductor Processing, 2013, 16, 1949-1956.	4.0	14

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127	Improvement of Thermoelectric Properties of CuAlO ₂ by Excess Oxygen Doping in Annealing. Materials Science Forum, 0, 750, 134-137.	0.3	14
128	Association of Cytokines, High Sensitive C-Reactive Protein, VEGF and Beta-Defensin-1 Gene Polymorphisms and Their Protein Expressions with Chronic Periodontitis in the Chinese Population. International Journal of Biological Markers, 2013, 28, 100-107.	1.8	14
129	Optimization of processing parameters for minimizing warpage of large thin-walled parts in whole stages of injection molding. Chinese Journal of Polymer Science (English Edition), 2014, 32, 1535-1543.	3.8	14
130	Enhanced photocatalytic activity and stability of TiO ₂ /graphene oxide composites coatings by electrophoresis deposition. Materials Letters, 2021, 286, 129258.	2.6	14
131	The formation of a hydroxyl bond and the effects thereof on bone-like apatite formation on a magnesia partially stabilized zirconia (MgO-PSZ) bioceramic following CO ₂ laser irradiation. Journal of Materials Science: Materials in Medicine, 2004, 15, 967-975.	3.6	13
132	Examination of CO ₂ laser-induced rapid solidification structures on magnesia partially stabilised zirconia and the effects thereof on wettability characteristics. Optics and Lasers in Engineering, 2004, 42, 355-374.	3.8	13
133	Cyclic properties of hydrogen absorption and desorption in Ti-Cr-Fe(Al,Si) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 448, 128-134.	5.6	13
134	Fabrication and Thermoelectric Properties of Magneli Phases by Adding Ti into TiO ₂ . Advanced Materials Research, 0, 415-417, 1291-1296.	0.3	13
135	Synthesis of magnetic nickel ferrite microspheres and their microwave absorbing properties. Chemical Research in Chinese Universities, 2016, 32, 678-681.	2.6	13
136	Preparation of core-shell Zn-doped CoFe ₂ O ₄ cubes @CNT composites and their absorbing performances. Micro and Nano Letters, 2017, 12, 227-230.	1.3	13
137	The comparison of biocompatibility and osteoinductivity between multi-walled and single-walled carbon nanotube/PHBV composites. Journal of Materials Science: Materials in Medicine, 2018, 29, 189.	3.6	13
138	Influence of anneal temperature in air on surface morphology and photoluminescence of ZnO thin films. IOP Conference Series: Materials Science and Engineering, 0, 522, 012004.	0.6	13
139	Interaction of parametric instabilities from 3- and 2-lasers in large-scale inhomogeneous plasmas. Nuclear Fusion, 2020, 60, 066012.	3.5	13
140	Preparation and thermoelectric properties of CuAlO ₂ compacts by tape casting followed by SPS. Journal of Alloys and Compounds, 2021, 853, 157086.	5.5	13
141	Enhancing the sustainability of additive manufacturing. , 2010, , .		12
142	Formation of TiO ₂ /Ti Composite Photocatalyst Film by 2-Step Mechanical Coating Technique. Materials Science Forum, 2011, 675-677, 1229-1232.	0.3	12
143	Multiple charge carrier transfer pathways in BiOBr/Bi ₂ O ₃ /BiOO.67F1.66 ternary composite with high adsorption and photocatalytic performance. Journal of Alloys and Compounds, 2019, 778, 924-932.	5.5	12
144	Flexible TiO ₂ nanograss array film decorated with BiOI nanoflakes and its greatly boosted photocatalytic activity. Ceramics International, 2021, 47, 7845-7852.	4.8	12

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145	Realization of quantum state privacy amplification in a nuclear magnetic resonance quantum system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 125502.	1.5	11
146	Enhanced photocatalytic activity of potassium-doped titania photocatalyst films with nanosheet structure. <i>Materials Letters</i> , 2019, 242, 174-178.	2.6	11
147	A nanotree-like WO ₃ film with adjustable defect concentration and its photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , 2021, 127, 105737.	4.0	11
148	Collective stimulated Brillouin scattering modes of two crossing laser beams with shared scattered wave. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	3.9	11
149	Melt depth prediction for laser irradiated magnesia partially stabilised zirconia. <i>Journal of Materials Processing Technology</i> , 2006, 180, 110-116.	6.3	10
150	Effects of material morphology and processing conditions on the characteristics of hydroxyapatite and high-density polyethylene biocomposites by selective laser sintering. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2006, 220, 125-137.	1.1	10
151	Influence of Metal Properties on the Formation and Evolution of Metal Coatings During Mechanical Coating. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 2717-2724.	2.2	10
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