

Dichen Li

List of Publications by Year in descending order

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187
papers

4,459
citations

101496

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all docs

189
docs citations

189
times ranked

4781
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Boehmite on the Calcination Shrinkage and Mechanical Properties of Gypsum-Bonded Molds. <i>Advanced Engineering Materials</i> , 2022, 24, 2100683.	1.6	2
2	Microstructure and Mechanical Properties of B-Bearing Austenitic Stainless Steel Fabricated by Laser Metal Deposition In-Situ Alloying. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 453.	1.5	4
3	3D Bioprinting of Multifunctional Dynamic Nanocomposite Bioinks Incorporating Cu-Doped Mesoporous Bioactive Glass Nanoparticles for Bone Tissue Engineering. <i>Small</i> , 2022, 18, e2104996.	5.2	52
4	Embedded bioprinting for designer 3D tissue constructs with complex structural organization. <i>Acta Biomaterialia</i> , 2022, 140, 1-22.	4.1	35
5	Digital light processing 3D printing of surface-oxidized Si ₃ N ₄ coated by silane coupling agent. <i>Journal of Asian Ceramic Societies</i> , 2022, 10, 69-82.	1.0	12
6	Effect of Nano-Si ₃ N ₄ Reinforcement on the Microstructure and Mechanical Properties of Laser-Powder-Bed-Fused AlSi10Mg Composites. <i>Crystals</i> , 2022, 12, 366.	1.0	4
7	In vivo evaluation of additively manufactured multi-layered scaffold for the repair of large osteochondral defects. <i>Bio-Design and Manufacturing</i> , 2022, 5, 481-496.	3.9	16
8	Deciphering Fluid Transport Within Leaf-Inspired Capillary Networks Based on a 3D Computational Model. <i>Small</i> , 2022, 18, e2108102.	5.2	3
9	Modular Design for Acoustic Metamaterials: Low-Frequency Noise Attenuation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
10	Expanding Melt-Based Electrohydrodynamic Printing of Highly-Ordered Microfibrous Architectures to Centimeter Height Via In Situ Charge Neutralization. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	18
11	Design and printing of embedded conductive patterns in liquid crystal elastomer for programmable electrothermal actuation. <i>Virtual and Physical Prototyping</i> , 2022, 17, 881-893.	5.3	8
12	A Novel Low-Cost Three-Dimensional Printed Brace Design Method for Early Onset Scoliosis. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2022, 16, .	0.4	1
13	Effects of bionic mechanical stimulation on the properties of engineered cartilage tissue. <i>Bio-Design and Manufacturing</i> , 2021, 4, 33-43.	3.9	11
14	A Single-Chamber Pneumatic Soft Bending Actuator With Increased Stroke-Range by Local Electric Guidance. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 8455-8463.	5.2	10
15	Recent progress in engineering functional biohybrid robots actuated by living cells. <i>Acta Biomaterialia</i> , 2021, 121, 29-40.	4.1	26
16	Biomechanical evaluation of a customized 3D-printed polyetheretherketone condylar prosthesis. <i>Experimental and Therapeutic Medicine</i> , 2021, 21, 348.	0.8	9
17	High Performance NbMoTa-Al ₂ O ₃ Multilayer Composite Structure Manufacturing by Laser Directed Energy Deposition. <i>Materials</i> , 2021, 14, 1685.	1.3	3
18	Templateless, Plating-Free Fabrication of Flexible Transparent Electrodes with Embedded Silver Mesh by Electric-Field-Driven Microscale 3D Printing and Hybrid Hot Embossing. <i>Advanced Materials</i> , 2021, 33, e2007772.	11.1	78

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19	3D-printed PEEK implant for mandibular defects repair - a new method. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104335.	1.5	51
20	Preparation, Mechanical and Biological Properties of Inkjet Printed Alginate/Gelatin Hydrogel. Journal of Bionic Engineering, 2021, 18, 574-583.	2.7	11
21	Transparent Electrodes: Templateless, Plating-Free Fabrication of Flexible Transparent Electrodes with Embedded Silver Mesh by Electric-Field-Driven Microscale 3D Printing and Hybrid Hot Embossing (Adv. Tj ETQq11i10.784314 rgBT	1.1	14
22	Additive manufacturing and large deformation responses of highly-porous polycaprolactone scaffolds with helical architectures for breast tissue engineering. Virtual and Physical Prototyping, 2021, 16, 291-305.	5.3	7
23	Effects of printing path and material components on mechanical properties of 3D-printed polyether-ether-ketone/hydroxyapatite composites. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104475.	1.5	38
24	Coaxial Electrohydrodynamic Bioprinting of Pre-vascularized Cell-laden Constructs for Tissue Engineering. International Journal of Bioprinting, 2021, 7, 362.	1.7	13
25	3D Bioprinted Skin Substitutes for Accelerated Wound Healing and Reduced Scar. Journal of Bionic Engineering, 2021, 18, 900-914.	2.7	11
26	Effects of Raster Angle and Material Components on Mechanical Properties of Polyether-Ether-Ketone/Calcium Silicate Scaffolds. Polymers, 2021, 13, 2547.	2.0	12
27	Biofabrication of a Low Modulus Bioelectroprobe for Neurons to Grow Into. Materials, 2021, 14, 4718.	1.3	2
28	Advanced biofabrication strategies for biomimetic composite scaffolds to regenerate ligament-bone interface. Biosurface and Biotribology, 2021, 7, 187-205.	0.6	2
29	Topological design and biomechanical evaluation for 3D printed multi-segment artificial vertebral implants. Materials Science and Engineering C, 2021, 127, 112250.	3.8	14
30	Additively-manufactured PEEK/HA porous scaffolds with highly-controllable mechanical properties and excellent biocompatibility. Materials Science and Engineering C, 2021, 128, 112333.	3.8	51
31	Facile Amidogen Bio-Activation Method Can Boost the Soft Tissue Integration on 3D Printed Polyether-Ether-Ketone Interface. Advanced Materials Interfaces, 2021, 8, 2100547.	1.9	4
32	Interfacial Transcrystallization and Mechanical Performance of 3D-Printed Fully Recyclable Continuous Fiber Self-Reinforced Composites. Polymers, 2021, 13, 3176.	2.0	9
33	3D Printing of Layered Gradient Pore Structure of Brain-like Tissue. International Journal of Bioprinting, 2021, 7, 359.	1.7	1
34	3D Printing Adjustable Stiffness External Fixator for Mechanically Stimulated Healing of Tibial Fractures. BioMed Research International, 2021, 2021, 1-14.	0.9	2
35	Electrohydrodynamic printing of sub-microscale fibrous architectures with improved cell adhesion capacity. Virtual and Physical Prototyping, 2020, 15, 62-74.	5.3	26
36	Further Development of Magnetic Compression for Gastrojejunostomy in Rabbits. Journal of Surgical Research, 2020, 245, 249-256.	0.8	2

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37	Multi-directional cellular alignment in 3D guided by electrohydrodynamically-printed microlattices. <i>Acta Biomaterialia</i> , 2020, 101, 141-151.	4.1	34
38	Bionic design and verification of 3D printed PEEK costal cartilage prosthesis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103561.	1.5	31
39	Biomechanical characterization of vertebral body replacement in situ: Effects of different fixation strategies. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 197, 105741.	2.6	14
40	Mechanical Properties and Gamma-Ray Shielding Performance of 3D-Printed Poly-Ether-Ether-Ketone/Tungsten Composites. <i>Materials</i> , 2020, 13, 4475.	1.3	34
41	Effect of Chopped ZrO ₂ Fiber Content on the Microstructure and Properties of CaO-Based Integral Ceramic Mold. <i>Materials</i> , 2020, 13, 5398.	1.3	5
42	A 3D-printed adaptive cloaking "illusion-integrated metasurface. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16018-16023.	2.7	9
43	The modified cross-suture technique for unilateral pulled-out anchor during all-inside meniscal repair. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 480.	0.8	1
44	A high-efficient tunable liquid metal-based electromagnetic absorbing metamaterial. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19242-19247.	1.1	13
45	3D Printing of Continuous Fiber Reinforced Low Melting Point Alloy Matrix Composites: Mechanical Properties and Microstructures. <i>Materials</i> , 2020, 13, 3463.	1.3	2
46	Melt-based, solvent-free additive manufacturing of biodegradable polymeric scaffolds with designer microstructures for tailored mechanical/biological properties and clinical applications. <i>Virtual and Physical Prototyping</i> , 2020, 15, 417-444.	5.3	21
47	Numerical Modeling Design for the Hybrid Additive Manufacturing of Laser Directed Energy Deposition and Shot Peening Forming Fe-Cr-Ni-B-Si Alloy. <i>Materials</i> , 2020, 13, 4877.	1.3	4
48	A 3D Carpet Cloak with Non-Euclidean Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 2000827.	3.6	19
49	Design of a continuous fiber trajectory for 4D printing of thermally stimulated composite structures. <i>Science China Technological Sciences</i> , 2020, 63, 571-577.	2.0	12
50	Directed differentiation of BMSCs on structural/compositional gradient nanofibrous scaffolds for ligament-bone osteointegration. <i>Materials Science and Engineering C</i> , 2020, 110, 110711.	3.8	26
51	Neutron Shielding Performance of 3D-Printed Boron Carbide PEEK Composites. <i>Materials</i> , 2020, 13, 2314.	1.3	22
52	Electro-pneumatic dielectric elastomer actuator incorporating tunable bending stiffness. <i>Physical Review Research</i> , 2020, 2, .	1.3	5
53	A 3D-Printed Lightweight and Broadband Metamaterial Absorber Made by Copper-based Conductive Composite. , 2020, , .		0
54	Gelatin-based perfusable, endothelial carotid artery model for the study of atherosclerosis. <i>BioMedical Engineering OnLine</i> , 2019, 18, 87.	1.3	9

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55	Transparent Heaters: Fabrication of High-Performance Silver Mesh for Transparent Glass Heaters via Electric-Field-Driven Microscale 3D Printing and UV-Assisted Microtransfer (Adv. Mater. 32(2019)). Advanced Materials, 2019, 31, 1970229.	11.1	1
56	Quantitative assessment of cerebral connectivity deficiency and cognitive impairment in children with prenatal alcohol exposure. Chaos, 2019, 29, 041101.	1.0	6
57	Fabrication of High-Performance Silver Mesh for Transparent Glass Heaters via Electric-Field-Driven Microscale 3D Printing and UV-Assisted Microtransfer. Advanced Materials, 2019, 31, e1902479.	11.1	99
58	Researches on the pyrolyzing strength of gelcasting Al ₂ O ₃ -based ceramic molds for double-wall blade. Journal of the American Ceramic Society, 2019, 102, 7564-7574.	1.9	2
59	A general multi-objective topology optimization methodology developed for customized design of pelvic prostheses. Medical Engineering and Physics, 2019, 69, 8-16.	0.8	56
60	Effects of astrocyte on neuronal outgrowth in a layered 3D structure. BioMedical Engineering OnLine, 2019, 18, 74.	1.3	9
61	Experimental Demonstration of a 3D-Printed Arched Metasurface Carpet Cloak. Advanced Optical Materials, 2019, 7, 1900475.	3.6	40
62	Research progress of ceramic matrix composite parts based on additive manufacturing technology. Virtual and Physical Prototyping, 2019, 14, 333-348.	5.3	48
63	Rapid Fabrication of High-Performance CaO-Based Integral Ceramic Mould by Stereolithography and Non-Aqueous Gelcasting. Materials, 2019, 12, 934.	1.3	8
64	Functional gradient structural design of customized diabetic insoles. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 94, 279-287.	1.5	42
65	Tailoring the Mechanical Properties of Laser Cladding-Deposited Ferrous Alloys with a Mixture of 410L Alloy and Fe-Cr-B-Si-Mo Alloy Powders. Materials, 2019, 12, 410.	1.3	8
66	Manufacturing and Analysis of High-Performance Refractory High-Entropy Alloy via Selective Laser Melting (SLM). Materials, 2019, 12, 720.	1.3	63
67	Effect of Urchin-Like Mullite Whiskers on the High-Temperature Performance of Porous SiO ₂ -Based Ceramic Molds. Materials, 2019, 12, 1181.	1.3	1
68	Three-Dimensional Printing PEEK Implant: A Novel Choice for the Reconstruction of Chest Wall Defect. Annals of Thoracic Surgery, 2019, 107, 921-928.	0.7	51
69	Carbon Fiber Reinforced PEEK Composites Based on 3D-Printing Technology for Orthopedic and Dental Applications. Journal of Clinical Medicine, 2019, 8, 240.	1.0	221
70	WxNbMoTa Refractory High-Entropy Alloys Fabricated by Laser Cladding Deposition. Materials, 2019, 12, 533.	1.3	47
71	Preclinical Strength Checking for Artificial Pelvic Prosthesis under Multi-activities - A Case Study. Journal of Bionic Engineering, 2019, 16, 1092-1102.	2.7	8
72	Integral numerical modeling of the deposition profile of a cold spraying process as an additive manufacturing technology. Progress in Additive Manufacturing, 2019, 4, 357-370.	2.5	6

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73	Can the sheep model fully represent the human model for the functional evaluation of cervical interbody fusion cages?. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 607-616.	1.4	8
74	Multicomponent bioprinting of heterogeneous hydrogel constructs based on microfluidic printheads. <i>International Journal of Bioprinting</i> , 2019, 5, 202.	1.7	19
75	In vitro model of the glial scar. <i>International Journal of Bioprinting</i> , 2019, 5, 235.	1.7	9
76	Pilot Study of the Biological Properties and Vascularization of 3D Printed Bilayer Skin Grafts. <i>International Journal of Bioprinting</i> , 2019, 6, 246.	1.7	28
77	Modeling nonlinear dynamic properties of dielectric elastomers with various crosslinks, entanglements, and finite deformations. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	13
78	Investigation into factors affecting the mechanical behaviours of a patient-specific vertebral body replacement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 378-387.	1.0	10
79	Tunable actuation behavior of ionic polymer metal composite utilizing carboxylated carbon nanotube-doped Nafion matrix. <i>RSC Advances</i> , 2018, 8, 3090-3094.	1.7	20
80	Microstructures and high-temperature strength of gel-casting Al ₂ O ₃ -based ceramic molds with coated aluminum additive. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 845-854.	1.5	3
81	A Method of Accurate Bone Tunnel Placement for Anterior Cruciate Ligament Reconstruction Based on 3-Dimensional Printing Technology: A Cadaveric Study. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2018, 34, 546-556.	1.3	14
82	Influence of the field humidity environment on the mechanical properties of 316L stainless steel repaired with Fe314. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 513-519.	2.5	2
83	Integrative square-grid triboelectric nanogenerator as a vibrational energy harvester and impulsive force sensor. <i>Nano Research</i> , 2018, 11, 1157-1164.	5.8	44
84	Functional testing on engineered cartilage to identify the role played by shearing. <i>Medical Engineering and Physics</i> , 2018, 51, 17-23.	0.8	3
85	Microscale electrohydrodynamic printing of conductive silver features based on <i>in situ</i> reactive inks. <i>Journal of Materials Chemistry C</i> , 2018, 6, 213-218.	2.7	32
86	Ultra-Broadband Acoustic Diode in Open Bend Tunnel by Negative Reflective Metasurface. <i>Scientific Reports</i> , 2018, 8, 16089.	1.6	10
87	Research center of biomanufacturing in Xi'an Jiaotong University. <i>Bio-Design and Manufacturing</i> , 2018, 1, 280-288.	3.9	2
88	Controllable interlayer shear strength and crystallinity of PEEK components by laser-assisted material extrusion. <i>Journal of Materials Research</i> , 2018, 33, 1632-1641.	1.2	45
89	Finite Element Analysis of the Pelvis after Customized Prosthesis Reconstruction. <i>Journal of Bionic Engineering</i> , 2018, 15, 443-451.	2.7	15
90	A study of cryogenic tissue-engineered liver slices in calcium alginate gel for drug testing. <i>Cryobiology</i> , 2018, 82, 1-7.	0.3	9

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91	Application of 3D-printed PEEK scapula prosthesis in the treatment of scapular benign fibrous histiocytoma: A case report. <i>Journal of Bone Oncology</i> , 2018, 12, 78-82.	1.0	46
92	Pinnacle elimination and stability analyses in nonlinear oscillation of soft dielectric elastomer slide actuators. <i>Nonlinear Dynamics</i> , 2018, 94, 1907-1920.	2.7	13
93	Advanced Material Strategies for Next-Generation Additive Manufacturing. <i>Materials</i> , 2018, 11, 166.	1.3	76
94	Preliminary Investigation of Poly-Ether-Ether-Ketone Based on Fused Deposition Modeling for Medical Applications. <i>Materials</i> , 2018, 11, 288.	1.3	59
95	Biomechanical Optimization of Elastic Modulus Distribution in Porous Femoral Stem for Artificial Hip Joints. <i>Journal of Bionic Engineering</i> , 2018, 15, 693-702.	2.7	23
96	Custom design and biomechanical analysis of 3D-printed PEEK rib prostheses. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 1083-1092.	1.4	66
97	Electrohydrodynamic Printing of Microscale PEDOT:PSS-PEO Features with Tunable Conductive/Thermal Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19116-19122.	4.0	55
98	Activation of Sonic Hedgehog Signaling Is Associated with Human Osteosarcoma Cells Radioresistance Characterized by Increased Proliferation, Migration, and Invasion. <i>Medical Science Monitor</i> , 2018, 24, 3764-3771.	0.5	12
99	Coaxial nozzle-assisted electrohydrodynamic printing for microscale 3D cell-laden constructs. <i>International Journal of Bioprinting</i> , 2018, 4, 127.	1.7	18
100	THE EFFECT OF ASPHERICITY OF ACETABULAR BEARING SURFACE ON CONTACT MECHANICS OF UHMWPE TOTAL HIP IMPLANTS BY FINITE ELEMENT ANALYSIS. <i>Journal of Mechanics in Medicine and Biology</i> , 2017, 17, 1750011.	0.3	1
101	Modelling and characterisation for the responsive performance of CF/PLA and CF/PEEK smart materials fabricated by 4D printing. <i>Virtual and Physical Prototyping</i> , 2017, 12, 69-76.	5.3	74
102	Viscoelastic creep and relaxation of dielectric elastomers characterized by a Kelvin-Voigt-Maxwell model. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	68
103	Load application for the contact mechanics analysis and wear prediction of total knee replacement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 444-454.	1.0	13
104	Prediction of Cervical Spinal Joint Loading and Secondary Motion Using a Musculoskeletal Multibody Dynamics Model Via Force-Dependent Kinematics Approach. <i>Spine</i> , 2017, 42, E1403-E1409.	1.0	12
105	Microscale Electrohydrodynamic Cell Printing with High Viability. <i>Small</i> , 2017, 13, 1702626.	5.2	33
106	Nonlinear Dynamical Model of a Soft Viscoelastic Dielectric Elastomer. <i>Physical Review Applied</i> , 2017, 8, .	1.5	21
107	A novel method for improving surface finish of stereolithography apparatus. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1537-1544.	1.5	21
108	Development of finite element model for customized prostheses design for patient with pelvic bone tumor. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 525-533.	1.0	26

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109	The Emerging Frontiers and Applications of High-Resolution 3D Printing. <i>Micromachines</i> , 2017, 8, 113.	1.4	151
110	Development of a Robotic Arm Based Hydrogel Additive Manufacturing System for In-Situ Printing. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 73.	1.3	41
111	Emodin Impairs Radioresistance of Human Osteosarcoma Cells by Suppressing Sonic Hedgehog Signaling. <i>Medical Science Monitor</i> , 2017, 23, 5767-5773.	0.5	13
112	Carbon Fiber/epoxy Interfacial Bonding Improvement by Microwave Pretreatment for Low-energy Electron Beam Curing. <i>Polymers and Polymer Composites</i> , 2016, 24, 121-125.	1.0	1
113	Effect of Process Conditions on ILSS of carbon Fiber / Epoxy Composites Stepwise Curing with Low-energy E-Beam. <i>Polymers and Polymer Composites</i> , 2016, 24, 115-120.	1.0	1
114	Tracheal suspension by using 3-dimensional printed personalized scaffold in a patient with tracheomalacia. <i>Journal of Thoracic Disease</i> , 2016, 8, 3323-3328.	0.6	46
115	Additive Manufacturing of Biomedical Constructs with Biomimetic Structural Organizations. <i>Materials</i> , 2016, 9, 909.	1.3	23
116	Morphological characteristics of cartilage-bone transitional structures in the human knee joint and CAD design of an osteochondral scaffold. <i>BioMedical Engineering OnLine</i> , 2016, 15, 82.	1.3	22
117	Effect of Solvent Diffusion on Reactive Chromotropic Polyelectrolyte Gel. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1640008.	1.3	3
118	Method to Control Dynamic Snap-Through Instability of Dielectric Elastomers. <i>Physical Review Applied</i> , 2016, 6, .	1.5	27
119	Flattening the Solidification Front by Varying the Wall Thickness of the Mould in Directional Solidification Technology. <i>Materials Transactions</i> , 2016, 57, 1671-1679.	0.4	0
120	FINITE ELEMENT ANALYSIS OF TOTAL KNEE REPLACEMENT WITH VARIOUS MISALIGNMENT ANGLES IN THE SAGITTAL PLANE. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1650096.	0.3	2
121	Voltage-induced pinnacle response in the dynamics of dielectric elastomers. <i>Physical Review E</i> , 2016, 93, 052506.	0.8	31
122	Micro/nanoscale electrohydrodynamic printing: from 2D to 3D. <i>Nanoscale</i> , 2016, 8, 15376-15388.	2.8	136
123	Evaluation of a subject-specific musculoskeletal modelling framework for load prediction in total knee arthroplasty. <i>Medical Engineering and Physics</i> , 2016, 38, 708-716.	0.8	49
124	The influence of metallic shell deformation on the contact mechanics of a ceramic-on-ceramic total hip arthroplasty. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 4-12.	1.0	4
125	Electrohydrodynamic printing: a potential tool for high-resolution hydrogel/cell patterning. <i>Virtual and Physical Prototyping</i> , 2016, 11, 57-63.	5.3	33
126	Fabrication of circular microfluidic network in enzymatically-crosslinked gelatin hydrogel. <i>Materials Science and Engineering C</i> , 2016, 59, 53-60.	3.8	62

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127	A novel combination of computer-assisted reduction technique and three dimensional printed patient-specific external fixator for treatment of tibial fractures. <i>International Orthopaedics</i> , 2016, 40, 835-841.	0.9	37
128	Investigation on static and dynamic performance of a hinge configuration with integrated dielectric elastomers. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	0
129	Granger causal time-dependent source connectivity in the somatosensory network. <i>Scientific Reports</i> , 2015, 5, 10399.	1.6	28
130	Effect of component malrotation on knee loading in total knee arthroplasty using multi-body dynamics modeling under a simulated walking gait. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1287-1296.	1.2	49
131	Formation Mechanism of Cracks During the Freeze Drying of Gelcast Ceramic Parts. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3338-3345.	1.9	9
132	Investigation of curing characteristics of carbon fiber/epoxy composites cured with low-energy electron beam. <i>Polymer Composites</i> , 2015, 36, 1731-1737.	2.3	16
133	Design and fabrication of biomimetic multiphased scaffolds for ligament-to-bone fixation. <i>Materials Science and Engineering C</i> , 2015, 50, 12-18.	3.8	25
134	Analysis of wall boundary in moving particle semi-implicit method and a novel model of fluid-wall interaction. <i>International Journal of Computational Fluid Dynamics</i> , 2015, 29, 199-214.	0.5	13
135	Effect of curvature radius on the residual stress of thin-walled parts in laser direct forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 81-88.	1.5	16
136	Application of 3D printed customized external fixator in fracture reduction. <i>Injury</i> , 2015, 46, 1150-1155.	0.7	59
137	Prediction of hip joint load and translation using musculoskeletal modelling with force-dependent kinematics and experimental validation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 477-490.	1.0	26
138	Design and optimization of the fixing plate for customized mandible implants. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 1296-1302.	0.7	22
139	Treatment with curcumin alleviates sublesional bone loss following spinal cord injury in rats. <i>European Journal of Pharmacology</i> , 2015, 765, 209-216.	1.7	13
140	The effect of interface microstructure on interfacial shear strength for osteochondral scaffolds based on biomimetic design and 3D printing. <i>Materials Science and Engineering C</i> , 2015, 46, 10-15.	3.8	45
141	Cartilage Repair and Subchondral Bone Migration Using 3D Printing Osteochondral Composites: A One-Year-Period Study in Rabbit Trochlea. <i>BioMed Research International</i> , 2014, 2014, 1-16.	0.9	67
142	Creep Control of Bends Cores of Integral Ceramic Molds During Presintering. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3380-3383.	1.9	3
143	Prediction of in vivo joint mechanics of an artificial knee implant using rigid multi-body dynamics with elastic contacts. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 564-575.	1.0	60
144	Comparative experimental investigation on the actuation mechanisms of ionic polymer-metal composites with different backbones and water contents. <i>Journal of Applied Physics</i> , 2014, 115, 124903.	1.1	33

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145	Patient-Specific Design and Biomechanical Evaluation of a Novel Bipolar Femoral Hemi-Knee Prosthesis. Journal of Bionic Engineering, 2014, 11, 259-267.	2.7	12
146	Characterization of Leaf-Inspired Microfluidic Chips for Pumpless Fluid Transport. Journal of Bionic Engineering, 2014, 11, 109-114.	2.7	25
147	A neural network approach for determining gait modifications to reduce the contact force in knee joint implant. Medical Engineering and Physics, 2014, 36, 1253-1265.	0.8	12
148	Design and Evaluation of Fully Configured Models Built by Additive Manufacturing. AIAA Journal, 2014, 52, 1441-1451.	1.5	20
149	Effects of quasi-3D stacking architecture on interlaminar shear strength and void content of FRP. Journal of Applied Polymer Science, 2014, 131, .	1.3	8
150	A novel silk-based artificial ligament and tricalcium phosphate/polyether ether ketone anchor for anterior cruciate ligament reconstruction " Safety and efficacy in a porcine model. Acta Biomaterialia, 2014, 10, 3696-3704.	4.1	34
151	Contact mechanics studies of an ellipsoidal contact bearing surface of metal-on-metal hip prostheses under micro-lateralization. Medical Engineering and Physics, 2014, 36, 419-424.	0.8	21
152	Influence of powder flow on sidewall quality of solid parts in laser metal direct forming. International Journal of Advanced Manufacturing Technology, 2013, 68, 2703-2711.	1.5	7
153	Band gap widening by photonic crystal heterostructures composed of two dimensional holes and diamond structure. Journal of Applied Physics, 2013, 113, 213701.	1.1	3
154	Three-dimensional liquid flattened Luneburg lens with ultra-wide viewing angle and frequency band. Applied Physics Letters, 2013, 103, 084102.	1.5	14
155	Manufacturing process for patterned IPMC actuator with millimeter thickness. , 2013, , .		2
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