

Amir A Zadpoor

List of Publications by Year in descending order

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Version: 2024-02-01

279
papers

17,793
citations

13332

70
h-index

20625

120
g-index

287
all docs

287
docs citations

287
times ranked

15186
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic Approaches for the Design and Fabrication of Bone-to-Soft Tissue Interfaces. ACS Biomaterials Science and Engineering, 2023, 9, 3810-3831.	2.6	21
2	Patient-specific 3D-printed shelf implant for the treatment of hip dysplasia: Anatomical and biomechanical outcomes in a canine model. Journal of Orthopaedic Research, 2022, 40, 1154-1162.	1.2	10
3	Mechanisms of fatigue crack initiation and propagation in auxetic meta-biomaterials. Acta Biomaterialia, 2022, 138, 398-409.	4.1	18
4	Nanoimprinting for high-throughput replication of geometrically precise pillars in fused silica to regulate cell behavior. Acta Biomaterialia, 2022, 140, 717-729.	4.1	4
5	Poly(2-ethyl-2-oxazoline) coating of additively manufactured biodegradable porous iron. Materials Science and Engineering C, 2022, 133, 112617.	3.8	7
6	Multi-objective design optimization of 3D micro-architected implants. Computer Methods in Applied Mechanics and Engineering, 2022, 396, 115102.	3.4	14
7	Controlled metal crumpling as an alternative to folding for the fabrication of nanopatterned meta-biomaterials. Materials and Design, 2022, 220, 110844.	3.3	8
8	Deep learning for the rare-event rational design of 3D printed multi-material mechanical metamaterials. Communications Materials, 2022, 3, .	2.9	21
9	Theoretical stiffness limits of 4D printed self-folding metamaterials. Communications Materials, 2022, 3, .	2.9	11
10	Osteogenic and antibacterial surfaces on additively manufactured porous Ti-6Al-4V implants: Combining silver nanoparticles with hydrothermally synthesized HA nanocrystals. Materials Science and Engineering C, 2021, 120, 111745.	3.8	29
11	Extrusion-based 3D printed biodegradable porous iron. Acta Biomaterialia, 2021, 121, 741-756.	4.1	52
12	Design of a 3D-printed hand prosthesis featuring articulated bio-inspired fingers. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 336-345.	1.0	17
13	Morphometric and Mechanical Analyses of Calcifications and Fibrous Plaque Tissue in Carotid Arteries for Plaque Rupture Risk Assessment. IEEE Transactions on Biomedical Engineering, 2021, 68, 1429-1438.	2.5	13
14	Extrusion-based 3D printed magnesium scaffolds with multifunctional MgF ₂ and MgF ₂ -CaP coatings. Biomaterials Science, 2021, 9, 7159-7182.	2.6	16
15	The morphological variation of acetabular defects in revision total hip arthroplasty—a statistical shape modeling approach. Journal of Orthopaedic Research, 2021, 39, 2419-2427.	1.2	6
16	The three-dimensional shape symmetry of the lunate and its implications. Journal of Hand Surgery: European Volume, 2021, 46, 587-593.	0.5	0
17	Mechanical characterization of nanopillars by atomic force microscopy. Additive Manufacturing, 2021, 39, 101858.	1.7	6
18	Patellofemoral pain patients show differences in 3D patellar shape compared to healthy control subjects. Osteoarthritis and Cartilage, 2021, 29, S336-S337.	0.6	1

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19	Antibacterial Titanium Implants Biofunctionalized by Plasma Electrolytic Oxidation with Silver, Zinc, and Copper: A Systematic Review. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3800.	1.8	35
20	Additively Manufactured Absorbable Porous Metal Implants – Processing, Alloying and Corrosion Behavior. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	7
21	Additively manufactured space-filling meta-implants. <i>Acta Biomaterialia</i> , 2021, 125, 345-357.	4.1	33
22	Decoupling Minimal Surface Metamaterial Properties Through Multi-Material Hyperbolic Tilings. <i>Advanced Functional Materials</i> , 2021, 31, 2101373.	7.8	27
23	On the Use of Black Ti as a Bone Substituting Biomaterial: Behind the Scenes of Dual-Functionality. <i>Small</i> , 2021, 17, e2100706.	5.2	10
24	Inorganic Agents for Enhanced Angiogenesis of Orthopedic Biomaterials. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002254.	3.9	35
25	Fatigue performance of auxetic meta-biomaterials. <i>Acta Biomaterialia</i> , 2021, 126, 511-523.	4.1	44
26	Dynamic characterization of 3D printed mechanical metamaterials with tunable elastic properties. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	5
27	The effects of plasma electrolytically oxidized layers containing Sr and Ca on the osteogenic behavior of selective laser melted Ti6Al4V porous implants. <i>Materials Science and Engineering C</i> , 2021, 124, 112074.	3.8	9
28	Topographic features of nano-pores within the osteochondral interface and their effects on transport properties – a 3D imaging and modeling study. <i>Journal of Biomechanics</i> , 2021, 123, 110504.	0.9	4
29	Curvature Induced by Deflection in Thick Meta-Plates. <i>Advanced Materials</i> , 2021, 33, e2008082.	11.1	22
30	4D printing of reconfigurable metamaterials and devices. <i>Communications Materials</i> , 2021, 2, .	2.9	60
31	3D-Printed Submicron Patterns Reveal the Interrelation between Cell Adhesion, Cell Mechanics, and Osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33767-33781.	4.0	27
32	Metamaterial Design: Decoupling Minimal Surface Metamaterial Properties Through Multi-Material Hyperbolic Tilings (Adv. Funct. Mater. 30/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170214.	7.8	0
33	Comparison in clinical performance of surgical guides for mandibular surgery and temporomandibular joint implants fabricated by additive manufacturing techniques. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104512.	1.5	12
34	Extrusion-based 3D printing of ex situ-alloyed highly biodegradable MRI-friendly porous iron-manganese scaffolds. <i>Acta Biomaterialia</i> , 2021, 134, 774-790.	4.1	20
35	Bioprinting of a Zonal-Specific Cell Density Scaffold: A Biomimetic Approach for Cartilage Tissue Engineering. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7821.	1.3	12
36	The local and global geometry of trabecular bone. <i>Acta Biomaterialia</i> , 2021, 130, 343-361.	4.1	31

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37	Surface-treated 3D printed Ti-6Al-4V scaffolds with enhanced bone regeneration performance: an in vivo study. <i>Annals of Translational Medicine</i> , 2021, 9, 39-39.	0.7	15
38	Lattice structures made by laser powder bed fusion. , 2021, , 423-465.		5
39	3D printed submicron patterns orchestrate the response of macrophages. <i>Nanoscale</i> , 2021, 13, 14304-14315.	2.8	15
40	Improving the Mechanical Properties of Additively Manufactured Micro-Architected Biodegradable Metals. <i>Jom</i> , 2021, 73, 4188-4198.	0.9	6
41	Kirigami-enabled self-folding origami. <i>Materials Today</i> , 2020, 32, 59-67.	8.3	63
42	Additively manufactured biodegradable porous zinc. <i>Acta Biomaterialia</i> , 2020, 101, 609-623.	4.1	95
43	Mechanics of bioinspired functionally graded soft-hard composites made by multi-material 3D printing. <i>Composite Structures</i> , 2020, 237, 111867.	3.1	73
44	Meta-biomaterials. <i>Biomaterials Science</i> , 2020, 8, 18-38.	2.6	90
45	Self-defending additively manufactured bone implants bearing silver and copper nanoparticles. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1589-1602.	2.9	65
46	Substrate curvature as a cue to guide spatiotemporal cell and tissue organization. <i>Biomaterials</i> , 2020, 232, 119739.	5.7	191
47	3D Printing of Large Areas of Highly Ordered Submicron Patterns for Modulating Cell Behavior. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 200-208.	4.0	24
48	Layer by layer coating for bio-functionalization of additively manufactured meta-biomaterials. <i>Additive Manufacturing</i> , 2020, 32, 100991.	1.7	36
49	Additively manufactured biodegradable porous metals. <i>Acta Biomaterialia</i> , 2020, 115, 29-50.	4.1	113
50	Non-affinity in multi-material mechanical metamaterials. <i>Scientific Reports</i> , 2020, 10, 11488.	1.6	27
51	Continuous and pulsed selective laser melting of Ti6Al4V lattice structures: Effect of post-processing on microstructural anisotropy and fatigue behaviour. <i>Additive Manufacturing</i> , 2020, 36, 101433.	1.7	31
52	Mechanical performance of auxetic meta-biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103658.	1.5	77
53	Multi-material 3D Printing of Functionally Graded Hierarchical Soft-Hard Composites. <i>Advanced Engineering Materials</i> , 2020, 22, 2070031.	1.6	5
54	Solvent-cast 3D printing of magnesium scaffolds. <i>Acta Biomaterialia</i> , 2020, 114, 497-514.	4.1	51

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55	Spiral Honeycomb Microstructured Bacterial Cellulose for Increased Strength and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50748-50755.	4.0	13
56	Quantitative mechanics of 3D printed nanopillars interacting with bacterial cells. <i>Nanoscale</i> , 2020, 12, 21988-22001.	2.8	14
57	Functionality-packed additively manufactured porous titanium implants. <i>Materials Today Bio</i> , 2020, 7, 100060.	2.6	27
58	Strain rate-dependent mechanical metamaterials. <i>Science Advances</i> , 2020, 6, eaba0616.	4.7	75
59	Biofunctionalization of selective laser melted porous titanium using silver and zinc nanoparticles to prevent infections by antibiotic-resistant bacteria. <i>Acta Biomaterialia</i> , 2020, 107, 325-337.	4.1	82
60	Russian doll deployable meta-implants: Fusion of kirigami, origami, and multi-stability. <i>Materials and Design</i> , 2020, 191, 108624.	3.3	41
61	Natural Architectures for Tissue Engineering and Regenerative Medicine. <i>Journal of Functional Biomaterials</i> , 2020, 11, 47.	1.8	10
62	On bone fatigue and its relevance for the design of architected materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6985-6985.	3.3	4
63	Deciphering the Roles of Interspace and Controlled Disorder in the Bactericidal Properties of Nanopatterns against <i>Staphylococcus aureus</i> . <i>Nanomaterials</i> , 2020, 10, 347.	1.9	29
64	Corrosion fatigue behavior of additively manufactured biodegradable porous zinc. <i>Acta Biomaterialia</i> , 2020, 106, 439-449.	4.1	38
65	Synthetic Polymers Provide a Robust Substrate for Functional Neuron Culture. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901347.	3.9	3
66	Immobilization of nanocarriers within a porous chitosan scaffold for the sustained delivery of growth factors in bone tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1122-1135.	2.1	25
67	Additively manufactured functionally graded biodegradable porous zinc. <i>Biomaterials Science</i> , 2020, 8, 2404-2419.	2.6	50
68	Multi-material 3D Printing of Functionally Graded Hierarchical Soft-Hard Composites. <i>Advanced Engineering Materials</i> , 2020, 22, 1901142.	1.6	15
69	Mechanical properties and cytocompatibility of dense and porous Zn produced by laser powder bed fusion for biodegradable implant applications. <i>Acta Biomaterialia</i> , 2020, 110, 289-302.	4.1	28
70	Bone Regeneration in Critical-Sized Bone Defects Treated with Additively Manufactured Porous Metallic Biomaterials: The Effects of Inelastic Mechanical Properties. <i>Materials</i> , 2020, 13, 1992.	1.3	14
71	Multi-material additive manufacturing technologies for Ti-, Mg-, and Fe-based biomaterials for bone substitution. <i>Acta Biomaterialia</i> , 2020, 109, 1-20.	4.1	125
72	Degradable Poly(Methyl Methacrylate)-co-Methacrylic Acid Nanoparticles for Controlled Delivery of Growth Factors for Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2020, 26, 1226-1242.	1.6	11

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73	Immunomodulation of surface biofunctionalized 3D printed porous titanium implants. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 035017.	1.7	24
74	Additively manufactured functionally graded biodegradable porous iron. <i>Acta Biomaterialia</i> , 2019, 96, 646-661.	4.1	120
75	Auxeticity and stiffness of random networks: Lessons for the rational design of 3D printed mechanical metamaterials. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	30
76	Novel microstructural features of selective laser melted lattice struts fabricated with single point exposure scanning. <i>Additive Manufacturing</i> , 2019, 29, 100785.	1.7	10
77	Fifty Years Is Not a Lot of Time!. <i>Matter</i> , 2019, 1, 1096-1098.	5.0	1
78	Fracture Behavior of Bio-Inspired Functionally Graded Soft-Hard Composites Made by Multi-Material 3D Printing: The Case of Colinear Cracks. <i>Materials</i> , 2019, 12, 2735.	1.3	27
79	Functional evaluation of a non-assembly 3D-printed hand prosthesis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 1122-1131.	1.0	22
80	Submicron Patterns-on-a-Chip: Fabrication of a Microfluidic Device Incorporating 3D Printed Surface Ornaments. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6127-6136.	2.6	17
81	Ultra-programmable buckling-driven soft cellular mechanisms. <i>Materials Horizons</i> , 2019, 6, 1138-1147.	6.4	77
82	Nature Helps: Toward Bioinspired Bactericidal Nanopatterns. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900640.	1.9	40
83	Metallic clay. <i>Additive Manufacturing</i> , 2019, 28, 528-534.	1.7	4
84	Influence of hydrothermal treatment on the surface characteristics and electrochemical behavior of Ti-6Al-4V bio-functionalized through plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2019, 374, 222-231.	2.2	32
85	Additively manufactured porous metallic biomaterials. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4088-4117.	2.9	137
86	Biodegradation-affected fatigue behavior of additively manufactured porous magnesium. <i>Additive Manufacturing</i> , 2019, 28, 299-311.	1.7	34
87	Additive manufacturing of Ti-6Al-4V parts through laser metal deposition (LMD): Process, microstructure, and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019, 804, 163-191.	2.8	214
88	Corrosion fatigue behavior of additively manufactured biodegradable porous iron. <i>Corrosion Science</i> , 2019, 156, 106-116.	3.0	51
89	Typical Shape Differences in the Subtalar Joint Bones Between Subjects with Chronic Ankle Instability and Controls. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1892-1902.	1.2	25
90	Semianalytical Geometry-Property Relationships for Some Generalized Classes of Pentamode-like Additively Manufactured Mechanical Metamaterials. <i>Physical Review Applied</i> , 2019, 11, .	1.5	28

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91	Towards osteogenic and bactericidal nanopatterns?. <i>Nanotechnology</i> , 2019, 30, 20LT01.	1.3	28
92	Bioengineered Skin Intended for Skin Disease Modeling. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1407.	1.8	25
93	Hyperbolic origami-inspired folding of triply periodic minimal surface structures. <i>Applied Materials Today</i> , 2019, 15, 453-461.	2.3	27
94	A review of the fatigue behavior of 3D printed polymers. <i>Additive Manufacturing</i> , 2019, 28, 87-97.	1.7	63
95	Non-Auxetic Mechanical Metamaterials. <i>Materials</i> , 2019, 12, 635.	1.3	43
96	Crumpling of thin sheets as a basis for creating mechanical metamaterials. <i>RSC Advances</i> , 2019, 9, 5174-5188.	1.7	19
97	Nanomaterials for bone tissue regeneration: updates and future perspectives. <i>Nanomedicine</i> , 2019, 14, 2987-3006.	1.7	35
98	Reactive ion etching for fabrication of biofunctional titanium nanostructures. <i>Scientific Reports</i> , 2019, 9, 18815.	1.6	34
99	Mechanical performance of additively manufactured meta-biomaterials. <i>Acta Biomaterialia</i> , 2019, 85, 41-59.	4.1	230
100	Three-dimensional analysis of shape variations and symmetry of the fibula, tibia, calcaneus and talus. <i>Journal of Anatomy</i> , 2019, 234, 132-144.	0.9	44
101	Compatibility in microstructural optimization for additive manufacturing. <i>Additive Manufacturing</i> , 2019, 26, 65-75.	1.7	72
102	From microstructural design to surface engineering: A tailored approach for improving fatigue life of additively manufactured meta-biomaterials. <i>Acta Biomaterialia</i> , 2019, 83, 153-166.	4.1	79
103	Topological design, permeability and mechanical behavior of additively manufactured functionally graded porous metallic biomaterials. <i>Acta Biomaterialia</i> , 2019, 84, 437-452.	4.1	189
104	Bactericidal effects of nanopatterns: A systematic review. <i>Acta Biomaterialia</i> , 2019, 83, 29-36.	4.1	164
105	Optimization of screw fixation in rat bone with extracorporeal shock waves. <i>Journal of Orthopaedic Research</i> , 2018, 36, 76-84.	1.2	9
106	Fatigue and quasi-static mechanical behavior of bio-degradable porous biomaterials based on magnesium alloys. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1798-1811.	2.1	26
107	Additive manufacturing of non-assembly mechanisms. <i>Additive Manufacturing</i> , 2018, 21, 150-158.	1.7	54
108	Non-enzymatic cross-linking of collagen type II fibrils is tuned via osmolality switch. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1929-1936.	1.2	3

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109	Shape-matching soft mechanical metamaterials. <i>Scientific Reports</i> , 2018, 8, 965.	1.6	95
110	Isolated and modulated effects of topology and material type on the mechanical properties of additively manufactured porous biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 79, 254-263.	1.5	88
111	Early Signs of Bone and Cartilage Changes Induced by Treadmill Exercise in Rats. <i>JBMR Plus</i> , 2018, 2, 134-142.	1.3	4
112	Direct submicron patterning of titanium for bone implants. <i>Microelectronic Engineering</i> , 2018, 195, 13-20.	1.1	10
113	Action-at-a-distance metamaterials: Distributed local actuation through far-field global forces. <i>APL Materials</i> , 2018, 6, .	2.2	37
114	Rationally designed meta-implants: a combination of auxetic and conventional meta-biomaterials. <i>Materials Horizons</i> , 2018, 5, 28-35.	6.4	216
115	Programming the shape-shifting of flat soft matter. <i>Materials Today</i> , 2018, 21, 144-163.	8.3	188
116	Effects of non-enzymatic glycation on the micro- and nano-mechanics of articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 551-556.	1.5	15
117	Effect of subtransus heat treatment on the microstructure and mechanical properties of additively manufactured Ti-6Al-4V alloy. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1562-1575.	2.8	172
118	Additively manufactured biodegradable porous magnesium. <i>Acta Biomaterialia</i> , 2018, 67, 378-392.	4.1	273
119	Development and mechanical characterisation of self-compressed collagen gels. <i>Materials Science and Engineering C</i> , 2018, 84, 243-247.	3.8	13
120	Fatigue performance of additively manufactured meta-biomaterials: The effects of topology and material type. <i>Acta Biomaterialia</i> , 2018, 65, 292-304.	4.1	144
121	From flat sheets to curved geometries: Origami and kirigami approaches. <i>Materials Today</i> , 2018, 21, 241-264.	8.3	267
122	Multi-material 3D printed mechanical metamaterials: Rational design of elastic properties through spatial distribution of hard and soft phases. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	89
123	Antibacterial and immunogenic behavior of silver coatings on additively manufactured porous titanium. <i>Acta Biomaterialia</i> , 2018, 81, 315-327.	4.1	130
124	Current Trends in Metallic Orthopedic Biomaterials: From Additive Manufacturing to Bio-Functionalization, Infection Prevention, and Beyond. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2684.	1.8	24
125	Frontiers of Additively Manufactured Metallic Materials. <i>Materials</i> , 2018, 11, 1566.	1.3	26
126	Towards deployable meta-implants. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3449-3455.	2.9	49

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127	Multi-scale imaging techniques to investigate solute transport across articular cartilage. <i>Journal of Biomechanics</i> , 2018, 78, 10-20.	0.9	23
128	Direct covalent attachment of silver nanoparticles on radical-rich plasma polymer films for antibacterial applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5845-5853.	2.9	40
129	Three-Dimensional Registration of Freehand-Tracked Ultrasound to CT Images of the Talocrural Joint. <i>Sensors</i> , 2018, 18, 2375.	2.1	3
130	Additively manufactured biodegradable porous iron. <i>Acta Biomaterialia</i> , 2018, 77, 380-393.	4.1	185
131	Unfocused shockwaves for osteoinduction in bone substitutes in rat cortical bone defects. <i>PLoS ONE</i> , 2018, 13, e0200020.	1.1	6
132	Multiscale modeling of fatigue crack propagation in additively manufactured porous biomaterials. <i>International Journal of Fatigue</i> , 2018, 113, 416-427.	2.8	38
133	<i>In-silico</i> quest for bactericidal but non-cytotoxic nanopatterns. <i>Nanotechnology</i> , 2018, 29, 43LT02.	1.3	35
134	Length-scale dependency of biomimetic hard-soft composites. <i>Scientific Reports</i> , 2018, 8, 12052.	1.6	28
135	Ten guidelines for the design of non-assembly mechanisms: The case of 3D-printed prosthetic hands. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 962-971.	1.0	40
136	Bone tissue engineering via growth factor delivery: from scaffolds to complex matrices. <i>International Journal of Energy Production and Management</i> , 2018, 5, 197-211.	1.9	368
137	Multimaterial Control of Instability in Soft Mechanical Metamaterials. <i>Physical Review Applied</i> , 2018, 9, .	1.5	35
138	Microscopic full-field three-dimensional strain measurement during the mechanical testing of additively manufactured porous biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 327-341.	1.5	29
139	Auxetic mechanical metamaterials. <i>RSC Advances</i> , 2017, 7, 5111-5129.	1.7	471
140	Additively manufactured metallic porous biomaterials based on minimal surfaces: A unique combination of topological, mechanical, and mass transport properties. <i>Acta Biomaterialia</i> , 2017, 53, 572-584.	4.1	546
141	Selective laser melting porous metallic implants with immobilized silver nanoparticles kill and prevent biofilm formation by methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , 2017, 140, 1-15.	5.7	170
142	Additively manufactured metallic pentamode meta-materials. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	108
143	Analytical relationships for the mechanical properties of additively manufactured porous biomaterials based on octahedral unit cells. <i>Applied Mathematical Modelling</i> , 2017, 46, 408-422.	2.2	72
144	Mechanics of additively manufactured biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 70, 1-6.	1.5	64

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145	Bone Remodeling is an Early Sign of Biomechanically Induced Pre-Osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2017, 25, S295-S296.	0.6	2
146	Effects of bone substitute architecture and surface properties on cell response, angiogenesis, and structure of new bone. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6175-6192.	2.9	199
147	Programming 2D/3D shape-shifting with hobbyist 3D printers. <i>Materials Horizons</i> , 2017, 4, 1064-1069.	6.4	216
148	Data on the surface morphology of additively manufactured Ti-6Al-4V implants during processing by plasma electrolytic oxidation. <i>Data in Brief</i> , 2017, 13, 385-389.	0.5	7
149	Fatigue crack propagation in additively manufactured porous biomaterials. <i>Materials Science and Engineering C</i> , 2017, 76, 457-463.	3.8	38
150	Effects of plasma electrolytic oxidation process on the mechanical properties of additively manufactured porous biomaterials. <i>Materials Science and Engineering C</i> , 2017, 76, 406-416.	3.8	47
151	Additively Manufactured and Surface Biofunctionalized Porous Nitinol. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1293-1304.	4.0	78
152	Solute transport at the interface of cartilage and subchondral bone plate: Effect of micro-architecture. <i>Journal of Biomechanics</i> , 2017, 52, 148-154.	0.9	29
153	Effects of applied stress ratio on the fatigue behavior of additively manufactured porous biomaterials under compressive loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 70, 7-16.	1.5	54
154	Crumpling-based soft metamaterials: the effects of sheet pore size and porosity. <i>Scientific Reports</i> , 2017, 7, 13028.	1.6	21
155	Rational design of soft mechanical metamaterials: Independent tailoring of elastic properties with randomness. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	73
156	Origami lattices with free-form surface ornaments. <i>Science Advances</i> , 2017, 3, eaao1595.	4.7	53
157	An Experimental and Finite Element Protocol to Investigate the Transport of Neutral and Charged Solutes across Articular Cartilage. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	2
158	Simultaneous Delivery of Multiple Antibacterial Agents from Additively Manufactured Porous Biomaterials to Fully Eradicate Planktonic and Adherent <i>Staphylococcus aureus</i> . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25691-25699.	4.0	82
159	How does tissue regeneration influence the mechanical behavior of additively manufactured porous biomaterials?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 831-841.	1.5	64
160	Additive Manufacturing of Biomaterials, Tissues, and Organs. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1-11.	1.3	301
161	Effects of heat treatment on microstructure and mechanical behaviour of additive manufactured porous Ti6Al4V. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 293, 012009.	0.3	12
162	Effects of laser processing parameters on the mechanical properties, topology, and microstructure of additively manufactured porous metallic biomaterials: A vector-based approach. <i>Materials and Design</i> , 2017, 134, 234-243.	3.3	44

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163	Design for Additive Bio-Manufacturing: From Patient-Specific Medical Devices to Rationally Designed Meta-Biomaterials. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1607.	1.8	94
164	Biomaterials and Tissue Biomechanics: A Match Made in Heaven?. <i>Materials</i> , 2017, 10, 528.	1.3	16
165	Mechanical Properties of Additively Manufactured Thick Honeycombs. <i>Materials</i> , 2016, 9, 613.	1.3	73
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