

# Fu-Zeng Ren

## List of Publications by Citations

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116  
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#	Paper	IF	Citations
116	Mussel-Inspired Adhesive and Tough Hydrogel Based on Nanoclay Confined Dopamine Polymerization. <i>ACS Nano</i> , <b>2017</b> , 11, 2561-2574	16.7	517
115	Plant-inspired adhesive and tough hydrogel based on Ag-Lignin nanoparticles-triggered dynamic redox catechol chemistry. <i>Nature Communications</i> , <b>2019</b> , 10, 1487	17.4	376
114	Tough, self-healable and tissue-adhesive hydrogel with tunable multifunctionality. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e372-e372	10.3	297
113	Transparent, Adhesive, and Conductive Hydrogel for Soft Bioelectronics Based on Light-Transmitting Polydopamine-Doped Polypyrrole Nanofibrils. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5561-5572	9.6	211
112	Characterization and structural analysis of zinc-substituted hydroxyapatites. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 3141-9	10.8	205
111	Mussel-Inspired Contact-Active Antibacterial Hydrogel with High Cell Affinity, Toughness, and Recoverability. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805964	15.6	189
110	Synthesis, characterization and ab initio simulation of magnesium-substituted hydroxyapatite. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2787-96	10.8	145
109	Graphene Oxide-Templated Conductive and Redox-Active Nanosheets Incorporated Hydrogels for Adhesive Bioelectronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907678	15.6	114
108	Biomimetic Mineralized Hierarchical Graphene Oxide/Chitosan Scaffolds with Adsorbability for Immobilization of Nanoparticles for Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 1707-17	9.5	97
107	Cell culture medium as an alternative to conventional simulated body fluid. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 2615-22	10.8	89
106	Antibacterial coatings of fluoridated hydroxyapatite for percutaneous implants. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 95, 588-99	5.4	88
105	A strong, tough, and osteoconductive hydroxyapatite mineralized polyacrylamide/dextran hydrogel for bone tissue regeneration. <i>Acta Biomaterialia</i> , <b>2019</b> , 88, 503-513	10.8	83
104	Bioadhesive Microporous Architectures by Self-Assembling Polydopamine Microcapsules for Biomedical Applications. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 848-856	9.6	76
103	Infrared spectroscopic characterization of carbonated apatite: a combined experimental and computational study. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 496-505	5.4	61
102	Mussel-inspired dopamine oligomer intercalated tough and resilient gelatin methacryloyl (GelMA) hydrogels for cartilage regeneration. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 1716-1725	7.3	60
101	In Situ Construction of an Ultra-Stable Conductive Composite Interface for High-Voltage All-Solid-State Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11784-11788	16.4	60
100	Sliding wear-induced chemical nanolayering in Cu <sub>2</sub> S, and its implications for high wear resistance. <i>Acta Materialia</i> , <b>2014</b> , 72, 148-158	8.4	58

99	An Anisotropic Hydrogel Based on Mussel-Inspired Conductive Ferrofluid Composed of Electromagnetic Nanohybrids. <i>Nano Letters</i> , <b>2019</b> , 19, 8343-8356	11.5	55
98	Mussel-inspired cryogels for promoting wound regeneration through photobiostimulation, modulating inflammatory responses and suppressing bacterial invasion. <i>Nanoscale</i> , <b>2019</b> , 11, 15846-15867	7.7	51
97	A Mussel-Inspired Persistent ROS-Scavenging, Electroactive, and Osteoinductive Scaffold Based on Electrochemical-Driven In Situ Nanoassembly. <i>Small</i> , <b>2019</b> , 15, e1805440	11	45
96	Mussel-inspired nanozyme catalyzed conductive and self-setting hydrogel for adhesive and antibacterial bioelectronics. <i>Bioactive Materials</i> , <b>2021</b> , 6, 2676-2687	16.7	45
95	Mussel-Inspired Redox-Active and Hydrophilic Conductive Polymer Nanoparticles for Adhesive Hydrogel Bioelectronics. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 169	19.5	41
94	Bacterial responses to periodic micropillar array. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 384-96	5.4	40
93	Micro/nano-structured TiO surface with dual-functional antibacterial effects for biomedical applications. <i>Bioactive Materials</i> , <b>2019</b> , 4, 346-357	16.7	39
92	Pulse Electrochemical Driven Rapid Layer-by-Layer Assembly of Polydopamine and Hydroxyapatite Nanofilms via Alternative Redox Synthesis for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 920-928	5.5	36
91	Effects of microtopographic patterns on platelet adhesion and activation on titanium oxide surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 622-32	5.4	33
90	Ab initio simulation on the crystal structure and elastic properties of carbonated apatite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2013</b> , 26, 59-67	4.1	32
89	Hydrothermal growth of biomimetic carbonated apatite nanoparticles with tunable size, morphology and ultrastructure. <i>CrystEngComm</i> , <b>2013</b> , 15, 2137	3.3	30
88	Mussel-inspired graphene oxide nanosheet-enwrapped Ti scaffolds with drug-encapsulated gelatin microspheres for bone regeneration. <i>Biomaterials Science</i> , <b>2018</b> , 6, 538-549	7.4	29
87	Cyclic phase transformation behavior of nanocrystalline NiTi at microscale. <i>Acta Materialia</i> , <b>2020</b> , 185, 507-517	8.4	29
86	A resilient and flexible chitosan/silk cryogel incorporated Ag/Sr co-doped nanoscale hydroxyapatite for osteoinductivity and antibacterial properties. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 7427-7438	7.3	29
85	Porous titanium scaffolds with self-assembled micro/nano-hierarchical structure for dual functions of bone regeneration and anti-infection. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 3482-3492	5.4	28
84	Growth of one-dimensional single-crystalline hydroxyapatite nanorods. <i>Journal of Crystal Growth</i> , <b>2012</b> , 349, 75-82	1.6	27
83	Synthesis and characterization of nano-crystalline calcium phosphates with EDTA-assisted hydrothermal method. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 1691-1694		27
82	Conductive Cellulose Bio-Nanosheets Assembled Biostable Hydrogel for Reliable Bioelectronics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010465	15.6	27

81	Bioinspired Highly Anisotropic, Ultrastrong and Stiff, and Osteoconductive Mineralized Wood Hydrogel Composites for Bone Repair. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010068	15.6	26
80	In-situ formed heterogeneous grain structure in spark-plasma-sintered CoCrFeMnNi high-entropy alloy overcomes the strength-ductility trade-off. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 771, 138625	5.3	25
79	Experimental and simulation studies of strontium/fluoride-codoped hydroxyapatite nanoparticles with osteogenic and antibacterial activities. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 182, 110359	6	23
78	Theoretical analysis of protein effects on calcium phosphate precipitation in simulated body fluid. <i>CrystEngComm</i> , <b>2012</b> , 14, 5870	3.3	22
77	Nanoscale self-organization reaction in CuAg alloys subjected to dry sliding and its impact on wear resistance. <i>Tribology International</i> , <b>2016</b> , 100, 420-429	4.9	21
76	Overcoming the strength-ductility trade-off via the formation of nanoscale Cr-rich precipitates in an ultrafine-grained FCC CrFeNi medium entropy alloy matrix. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 762, 138107	5.3	21
75	Polydopamine mediated assembly of hydroxyapatite nanoparticles and bone morphogenetic protein-2 on magnesium alloys for enhanced corrosion resistance and bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 2750-2761	5.4	20
74	Integrity and zeta potential of fluoridated hydroxyapatite nanothick coatings for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 1046-56	4.1	20
73	Mussel-inspired nano-multilayered coating on magnesium alloys for enhanced corrosion resistance and antibacterial property. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 157, 432-439	6	19
72	Cicada-inspired fluoridated hydroxyapatite nanostructured surfaces synthesized by electrochemical additive manufacturing. <i>Materials and Design</i> , <b>2020</b> , 193, 108790	8.1	19
71	Fabrication of high strength, antibacterial and biocompatible Ti-5Mo-5Ag alloy for medical and surgical implant applications. <i>Materials Science and Engineering C</i> , <b>2020</b> , 106, 110165	8.3	19
70	Bioinspired adhesive and tumor microenvironment responsive nanoMOFs assembled 3D-printed scaffold for anti-tumor therapy and bone regeneration. <i>Nano Today</i> , <b>2021</b> , 39, 101182	17.9	19
69	Fabrication, tribological and corrosion behaviors of ultra-fine grained Co-28Cr-6Mo alloy for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2016</b> , 60, 139-147	4.1	18
68	Antibacterial activity, corrosion resistance and wear behavior of spark plasma sintered Ta-5Cu alloy for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 74, 315-323	4.1	17
67	Effects of grain size on compressive behavior of NiTi polycrystalline superelastic macro- and micropillars. <i>Materials Letters</i> , <b>2018</b> , 214, 53-55	3.3	17
66	Achieving exceptional wear resistance in a compositionally complex alloy via tuning the interfacial structure and chemistry. <i>Acta Materialia</i> , <b>2020</b> , 188, 697-710	8.4	16
65	Carbonated Apatite, Type-A or Type-B?. <i>Key Engineering Materials</i> , <b>2011</b> , 493-494, 293-297	0.4	16
64	Bioadhesive injectable hydrogel with phenolic carbon quantum dot supported Pd single atom nanozymes as a localized immunomodulation niche for cancer catalytic immunotherapy. <i>Biomaterials</i> , <b>2021</b> , 280, 121272	15.6	16

63	Graphene oxide nanolayers as nanoparticle anchors on biomaterial surfaces with nanostructures and charge balance for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 1311-1323	5.4	15
62	Sliding wear induced subsurface microstructural evolution in nanocrystalline Nb-Ag binary alloys and its impact on tribological performance. <i>Wear</i> , <b>2017</b> , 392-393, 69-76	3.5	14
61	Cancellous-Bone-like Porous Iron Scaffold Coated with Strontium Incorporated Octacalcium Phosphate Nanowhiskers for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 509-518	5.5	14
60	Chitosan/bovine serum albumin co-micropatterns on functionalized titanium surfaces and their effects on osteoblasts. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2013</b> , 24, 489-502	4.5	14
59	Tribological and corrosion behaviors of bulk Cu W nanocomposites fabricated by mechanical alloying and warm pressing. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 676, 164-172	5.7	14
58	Engineering High-Resolution Micropatterns Directly onto Titanium with Optimized Contact Guidance to Promote Osteogenic Differentiation and Bone Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 43888-43901	9.5	13
57	Calcium phosphate bioceramics induce mineralization modulated by proteins. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 3245-55	8.3	13
56	Fabrication and evaluation of bulk nanostructured cobalt intended for dental and orthopedic implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 68, 115-123	4.1	12
55	Bio-inspired immobilization of strontium substituted hydroxyapatite nanocrystals and alendronate on the surface of AZ31 magnesium alloy for osteoporotic fracture repair. <i>Surface and Coatings Technology</i> , <b>2017</b> , 313, 381-390	4.4	12
54	A strong, wear- and corrosion-resistant, and antibacterial Co <sub>30</sub> at.% Cr <sub>5</sub> at.% Ag ternary alloy for medical implants. <i>Materials and Design</i> , <b>2019</b> , 184, 108190	8.1	12
53	Novel niobium and silver toughened hydroxyapatite nanocomposites with enhanced mechanical and biological properties for load-bearing bone implants. <i>Applied Materials Today</i> , <b>2019</b> , 15, 531-542	6.6	12
52	Direct measurement of the maximum pinning force during particle-grain boundary interaction via molecular dynamics simulations. <i>Acta Materialia</i> , <b>2018</b> , 148, 1-8	8.4	12
51	Mussel-inspired nano-building block assemblies for mimicking extracellular matrix microenvironments with multiple functions. <i>Biofabrication</i> , <b>2017</b> , 9, 035005	10.5	12
50	Computer simulation of ions doped hydroxyapatite: A brief review. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2017</b> , 32, 978-987	1	12
49	Effects of atomic-level nano-structured hydroxyapatite on adsorption of bone morphogenetic protein-7 and its derived peptide by computer simulation. <i>Scientific Reports</i> , <b>2017</b> , 7, 15152	4.9	12
48	In Situ Construction of an Ultra-Stable Conductive Composite Interface for High-Voltage All-Solid-State Lithium Metal Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11882-11886	3.6	11
47	Cancellous bone-like porous Fe@Zn scaffolds with core-shell-structured skeletons for biodegradable bone implants. <i>Acta Biomaterialia</i> , <b>2021</b> , 121, 665-681	10.8	11
46	Microstructure, Mechanical Properties, and Sliding Wear Behavior of Spark Plasma Sintered Ti-Cu Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 6147-6160	2.3	11

45	Zener pinning by coherent particles: pinning efficiency and particle reorientation mechanisms. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2017</b> , 25, 065008	2	10
44	Surfactant-free electrochemical synthesis of fluoridated hydroxyapatite nanorods for biomedical applications. <i>Ceramics International</i> , <b>2019</b> , 45, 17336-17343	5.1	9
43	Microstructure and dry sliding wear behavior of ultrafine-grained Co-30 at% Cr alloy at room and elevated temperatures. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 276-284	5.7	9
42	Forced atomic mixing of immiscible Nb-Ag alloys by severe plastic deformation. <i>Materials Letters</i> , <b>2017</b> , 207, 141-144	3.3	9
41	Interaction Behaviors of Fibrinopeptide-A and Graphene with Different Functional Groups: A Molecular Dynamics Simulation Approach. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 7907-7915	3.4	9
40	A study of degradation behaviour and biocompatibility of Zn-Fe alloy prepared by electrodeposition. <i>Materials Science and Engineering C</i> , <b>2020</b> , 117, 111295	8.3	9
39	Molecular dynamics simulation of protein effects on interfacial energy between HA surfaces and solutions. <i>Materials Letters</i> , <b>2014</b> , 123, 191-194	3.3	8
38	Enhance Fatigue Resistance of Nanocrystalline NiTi by Laser Shock Peening. <i>Shape Memory and Superelasticity</i> , <b>2019</b> , 5, 436-443	2.8	8
37	Effects of nanocrystalline microstructure on the dry sliding wear behavior of a Cu-10 at% Ag-10 at% W ternary alloy against stainless steel. <i>Wear</i> , <b>2018</b> , 402-403, 1-10	3.5	7
36	A dual-pillar method for measurement of stress-strain response of material at microscale. <i>Scripta Materialia</i> , <b>2019</b> , 172, 138-143	5.6	7
35	Study of protein adsorption on octacalcium phosphate surfaces by molecular dynamics simulations. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1045-53	4.5	7
34	The Synergy of Topographical Micropatterning and Ta TaCu Bilayered Thin Film on Titanium Implants Enables Dual-Functions of Enhanced Osteogenesis and Anti-Infection. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002020	10.1	7
33	Significant reduction in friction and wear of a high-entropy alloy via the formation of self-organized nanolayered structure. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 73, 1-8	9.1	7
32	Achieving high strength and high ductility in a high-entropy alloy by a combination of a heterogeneous grain structure and oxide-dispersion strengthening. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 805, 140544	5.3	7
31	Introducing Laves phase strengthening into an ultrafine-grained equiatomic CrFeNi alloy by niobium addition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 806, 140611	5.3	7
30	The interaction of chitosan and BMP-2 tuned by deacetylation degree and pH value. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 769-779	5.4	7
29	In situ alloying based laser powder bed fusion processing of TiMo alloy to fabricate functionally graded composites. <i>Composites Part B: Engineering</i> , <b>2021</b> , 222, 109059	10	7
28	Controllable phase transformation of fluoridated calcium phosphate ultrathin coatings for biomedical applications. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 847, 155920	5.7	6



27	Size effect on the mechanical behavior of single crystalline Fe-31.2Pd (at.%) micropillars. <i>Scripta Materialia</i> , <b>2018</b> , 152, 141-145	5.6	6
26	Sliding wear of CoCrNi medium-entropy alloy at elevated temperatures: Wear mechanism transition and subsurface microstructure evolution. <i>Wear</i> , <b>2019</b> , 440-441, 203108	3.5	6
25	Laser surface treatment-introduced gradient nanostructured TiZrHfTaNb refractory high-entropy alloy with significantly enhanced wear resistance. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 110, 43-56	9.1	6
24	Progress in 11βHSD1 inhibitors for the treatment of metabolic diseases: A comprehensive guide to their chemical structure diversity in drug development. <i>European Journal of Medicinal Chemistry</i> , <b>2020</b> , 191, 112134	6.8	5
23	Microstructure, sliding wear and corrosion behavior of bulk nanostructured Co-Ag immiscible alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 748, 961-969	5.7	5
22	Ultrahigh radiation resistance of nanocrystalline diamond films for solid lubrication in harsh radiative environments. <i>Carbon</i> , <b>2021</b> , 182, 525-536	10.4	5
21	Three-dimensional alloy interface between Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> and Li metal to achieve excellent cycling stability of all-solid-state battery. <i>Journal of Power Sources</i> , <b>2021</b> , 505, 230062	8.9	5
20	Microstructure, Mechanical Properties, and Sliding Wear Behavior of Oxide-Dispersion-Strengthened FeMnNi Alloy Fabricated by Spark Plasma Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 2796-2810	2.3	4
19	Significantly Enhanced Wear Resistance of an Ultrafine-Grained CrFeNi Medium-Entropy Alloy at Elevated Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 2834-2850	2.3	4
18	Tuning the mechanical properties of Fe <sub>x</sub> (CoMoNi) <sub>100-x</sub> high-entropy alloys via controlled formation of hard $\epsilon$ phase. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 773, 138881	5.3	4
17	Superelastic oxide micropillars enabled by surface tension-modulated 90° domain switching with excellent fatigue resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
16	Sliding wear of nanocrystalline Nb-Ag at elevated temperatures: Evolution of subsurface microstructure and its correlation with wear performance. <i>Wear</i> , <b>2018</b> , 414-415, 251-261	3.5	4
15	Ab Initio Simulations on the Carbonated Apatite Structure. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 1-6	0.4	3
14	Controlled pVEGF Delivery via a Gene-Activated Matrix Comprised of a Peptide-Modified Non-viral Vector and a Nanofibrous Scaffold for Skin Wound Healing. <i>Acta Biomaterialia</i> , <b>2021</b> , 140, 149-149	10.8	3
13	Achieving low wear in a $\epsilon$ phase reinforced high-entropy alloy and associated subsurface microstructure evolution. <i>Wear</i> , <b>2021</b> , 474-475, 203755	3.5	3
12	Sliding Wear Behavior of Spark Plasma-Sintered Cu <sub>50</sub> Wt Pct Cr Alloy at Room and Elevated Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 3132-3147	2.3	2
11	The Size Dependent Deformation and Strengthening Mechanisms of Nanolayered Co/Ag Micropillars. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 5640-5649	2.3	2
10	Resolving the Interface of Calcium Phosphate Formation on the Porous Bioceramics In Vitro. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 4107-4112	3.8	2

9	A high strength and low modulus metastable Ti-12Mo-6Zr-2Fe alloy fabricated by laser powder bed fusion in-situ alloying. <i>Additive Manufacturing</i> , <b>2021</b> , 37, 101708	6.1	2
8	A high strength, wear and corrosion-resistant, antibacterial and biocompatible Nb-5 at.% Ag alloy for dental and orthopedic implants. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 80, 266-278	9.1	2
7	Laves phase strengthening in ultrafine-grained CoCrTa micropillars under uniaxial compression at modest temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 791, 139782	5.3	1
6	Ultrahigh cycle fatigue of nanocrystalline NiTi tubes for elastocaloric cooling. <i>Applied Materials Today</i> , <b>2022</b> , 26, 101377	6.6	1
5	Grain boundary migration and Zener pinning in a nanocrystalline CuAg alloy. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2020</b> , 28, 065017	2	1
4	Superelasticity of micropillar of single crystalline Fe3Pt. <i>Materialia</i> , <b>2020</b> , 9, 100534	3.2	1
3	Atomic layer deposition of zinc oxide onto 3D porous iron scaffolds for bone repair: in vitro degradation, antibacterial activity and cytocompatibility evaluation. <i>Rare Metals</i> , 1	5.5	0
2	Measuring fracture toughness of human dental enamel at small scale using notched microcantilever beams. <i>Biosurface and Biotribology</i> , <b>2021</b> , 7, 228	1	0
1	Measurement of two-dimensional residual stress in nanocrystalline superelastic NiTi fabricated with pre-strain laser shock peening. <i>Mathematics and Mechanics of Solids</i> , 108128652210905	2.3	