

# Kaushik Chatterjee

## List of Publications by Citations

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132  
papers

3,741  
citations

32  
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145  
ext. papers

4,613  
ext. citations

6.2  
avg, IF

6.29  
L-index

#	Paper	IF	Citations
132	The effect of 3D hydrogel scaffold modulus on osteoblast differentiation and mineralization revealed by combinatorial screening. <i>Biomaterials</i> , <b>2010</b> , 31, 5051-62	15.6	233
131	The determination of stem cell fate by 3D scaffold structures through the control of cell shape. <i>Biomaterials</i> , <b>2011</b> , 32, 9188-96	15.6	230
130	Chemical functionalization of graphene to augment stem cell osteogenesis and inhibit biofilm formation on polymer composites for orthopedic applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3237-52	9.5	134
129	Comprehensive Review on the Use of Graphene-Based Substrates for Regenerative Medicine and Biomedical Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26431-26457	9.5	114
128	Globularization using heat treatment in additively manufactured Ti-6Al-4V for high strength and toughness. <i>Acta Materialia</i> , <b>2019</b> , 162, 239-254	8.4	111
127	Recent advances in engineering topography mediated antibacterial surfaces. <i>Nanoscale</i> , <b>2015</b> , 7, 15568-75	7.7	109
126	Engineering a nanostructured "super surface" with superhydrophobic and superkilling properties. <i>RSC Advances</i> , <b>2015</b> , 5, 44953-44959	3.7	105
125	Modulus-driven differentiation of marrow stromal cells in 3D scaffolds that is independent of myosin-based cytoskeletal tension. <i>Biomaterials</i> , <b>2011</b> , 32, 2256-64	15.6	100
124	Recent advances in the field of transition metal dichalcogenides for biomedical applications. <i>Nanoscale</i> , <b>2018</b> , 10, 16365-16397	7.7	95
123	Nanoscale Topography on Black Titanium Imparts Multi-biofunctional Properties for Orthopedic Applications. <i>Scientific Reports</i> , <b>2017</b> , 7, 41118	4.9	87
122	Macroporous three-dimensional graphene oxide foams for dye adsorption and antibacterial applications. <i>RSC Advances</i> , <b>2016</b> , 6, 1231-1242	3.7	83
121	Engineering a multi-biofunctional composite using poly(ethylenimine) decorated graphene oxide for bone tissue regeneration. <i>Nanoscale</i> , <b>2016</b> , 8, 6820-36	7.7	82
120	Surface functionalization of 3D printed polymer scaffolds to augment stem cell response. <i>Materials and Design</i> , <b>2019</b> , 161, 44-54	8.1	81
119	Elucidating microstructural evolution and strengthening mechanisms in nanocrystalline surface induced by surface mechanical attrition treatment of stainless steel. <i>Acta Materialia</i> , <b>2017</b> , 122, 138-151	8.4	76
118	Strontium eluting graphene hybrid nanoparticles augment osteogenesis in a 3D tissue scaffold. <i>Nanoscale</i> , <b>2015</b> , 7, 2023-33	7.7	71
117	Nanostructured scaffold as a determinant of stem cell fate. <i>Stem Cell Research and Therapy</i> , <b>2016</b> , 7, 188	8.3	70
116	Perovskite ceramic nanoparticles in polymer composites for augmenting bone tissue regeneration. <i>Nanotechnology</i> , <b>2014</b> , 25, 485101	3.4	63

115	Multifunctional biodegradable polymer nanocomposite incorporating graphene-silver hybrid for biomedical applications. <i>Materials and Design</i> , <b>2016</b> , 108, 319-332	8.1	61
114	Multi-scale surface topography to minimize adherence and viability of nosocomial drug-resistant bacteria. <i>Materials and Design</i> , <b>2018</b> , 140, 332-344	8.1	60
113	Enhancing the mechanical and biological performance of a metallic biomaterial for orthopedic applications through changes in the surface oxide layer by nanocrystalline surface modification. <i>Nanoscale</i> , <b>2015</b> , 7, 7704-16	7.7	52
112	Enhanced Metastatic Potential in a 3D Tissue Scaffold toward a Comprehensive in Vitro Model for Breast Cancer Metastasis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27810-22	9.5	51
111	Amine-functionalized multiwall carbon nanotubes impart osteoinductive and bactericidal properties in poly(L-lactide) composites. <i>RSC Advances</i> , <b>2014</b> , 4, 19086-19098	3.7	49
110	Combinatorial screening of osteoblast response to 3D calcium phosphate/poly(L-lactide) scaffolds using gradients and arrays. <i>Biomaterials</i> , <b>2011</b> , 32, 1361-9	15.6	49
109	Biofunctionalized surface-modified silver nanoparticles for gene delivery. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5266-5276	7.3	47
108	Non-equilibrium microstructure, crystallographic texture and morphological texture synergistically result in unusual mechanical properties of 3D printed 316L stainless steel. <i>Additive Manufacturing</i> , <b>2019</b> , 28, 65-77	6.1	46
107	Curcumin eluting nanofibers augment osteogenesis toward phytochemical based bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , <b>2016</b> , 11, 055007	3.5	44
106	3D scaffold alters cellular response to graphene in a polymer composite for orthopedic applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 732-49	3.5	44
105	Multi-biofunctional polymer graphene composite for bone tissue regeneration that elutes copper ions to impart angiogenic, osteogenic and bactericidal properties. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 159, 293-302	6	41
104	In situ preparation of multicomponent polymer composite nanofibrous scaffolds with enhanced osteogenic and angiogenic activities. <i>Materials Science and Engineering C</i> , <b>2019</b> , 94, 565-579	8.3	39
103	Controlled nanoscale precipitation to enhance the mechanical and biological performances of a metastable Ti-Nb-Sn alloy for orthopedic applications. <i>Materials and Design</i> , <b>2017</b> , 126, 226-237	8.1	38
102	Engineering a Piperine Eluting Nanofibrous Patch for Cancer Treatment. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1376-1385	5.5	37
101	Copolyesters from Soybean Oil for Use as Resorbable Biomaterials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 880-891	8.3	33
100	Strontium eluting nanofibers augment stem cell osteogenesis for bone tissue regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 146, 649-56	6	32
99	In Situ Silication of Polymer Nanofibers to Engineer Multi-Biofunctional Composites. <i>ChemistrySelect</i> , <b>2018</b> , 3, 3762-3773	1.8	31
98	Study of the influence of Zr on the mechanical properties and functional response of Ti-Nb-Ta-Zr-O alloy for orthopedic applications. <i>Materials and Design</i> , <b>2019</b> , 164, 107555	8.1	31

97	Comprehensive review on alloy design, processing, and performance of $\beta$ titanium alloys as biomedical materials. <i>International Materials Reviews</i> , <b>2021</b> , 66, 114-139	16.1	31
96	Comparative study of keratin extraction from human hair. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 133, 382-390	7.9	30
95	The importance of crystallographic texture in the use of titanium as an orthopedic biomaterial. <i>RSC Advances</i> , <b>2014</b> , 4, 38078-38087	3.7	30
94	Enzymatically degradable EMI shielding materials derived from PCL based nanocomposites. <i>RSC Advances</i> , <b>2015</b> , 5, 17716-17725	3.7	29
93	Graphene scavenges free radicals to synergistically enhance structural properties in a gamma-irradiated polyethylene composite through enhanced interfacial interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 22900-10	3.6	29
92	Combinatorial approach to develop tailored biodegradable poly(xylitol dicarboxylate) polyesters. <i>Biomacromolecules</i> , <b>2014</b> , 15, 4302-13	6.9	29
91	Dendron conjugation to graphene oxide using click chemistry for efficient gene delivery. <i>RSC Advances</i> , <b>2015</b> , 5, 50196-50211	3.7	29
90	Tissue mimetic 3D scaffold for breast tumor-derived organoid culture toward personalized chemotherapy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 180, 334-343	6	28
89	Ontology analysis of global gene expression differences of human bone marrow stromal cells cultured on 3D scaffolds or 2D films. <i>Biomaterials</i> , <b>2014</b> , 35, 6716-26	15.6	28
88	Engineering the next-generation tin containing $\beta$ titanium alloys with high strength and low modulus for orthopedic applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 78, 124-133	4.1	28
87	Surface nanostructuring of titanium imparts multifunctional properties for orthopedic and cardiovascular applications. <i>Materials and Design</i> , <b>2018</b> , 144, 169-181	8.1	25
86	Synergistic interactions between silver decorated graphene and carbon nanotubes yield flexible composites to attenuate electromagnetic radiation. <i>Nanotechnology</i> , <b>2017</b> , 28, 025201	3.4	24
85	Inflammatory Role of Cancer-Associated Fibroblasts in Invasive Breast Tumors Revealed Using a Fibrous Polymer Scaffold. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33814-33826	9.5	24
84	Mimicking Insect Wings: The Roadmap to Bioinspiration. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 3139-3160	5.5	23
83	Controlled Release of Salicylic Acid from Biodegradable Cross-Linked Polyesters. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 3479-89	5.6	23
82	Polyanhydrides of Castor Oil/Sebacic Acid for Controlled Release Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 7891-7901	3.9	23
81	A simplified protocol for culture of murine neonatal cardiomyocytes on nanoscale keratin coated surfaces. <i>International Journal of Cardiology</i> , <b>2017</b> , 232, 160-170	3.2	22
80	Fabricating gradient hydrogel scaffolds for 3D cell culture. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2011</b> , 14, 227-36	1.3	22

79	Elucidating molecular events underlying topography mediated cardiomyogenesis of stem cells on 3D nanofibrous scaffolds. <i>Materials Science and Engineering C</i> , <b>2018</b> , 88, 104-114	8.3	21
78	Polymers and Composites Derived from Castor Oil as Sustainable Materials and Degradable Biomaterials: Current Status and Emerging Trends. <i>Biomacromolecules</i> , <b>2020</b> , 21, 4639-4662	6.9	21
77	Development of Graphene Oxide-/Galactitol Polyester-Based Biodegradable Composites for Biomedical Applications. <i>ACS Omega</i> , <b>2017</b> , 2, 5545-5556	3.9	20
76	Tailored nitrogen dioxide sensing response of three-dimensional graphene foam. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 21-27	8.5	19
75	Engineering a 3D MoS <sub>2</sub> foam using keratin exfoliated nanosheets. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 254-262	14.7	18
74	Enzymatically degradable and flexible bio-nanocomposites derived from PHBV and PBAT blend: assessing thermal, morphological, mechanical, and biodegradation properties. <i>Colloid and Polymer Science</i> , <b>2015</b> , 293, 2921-2930	2.4	18
73	Gas-Foamed Scaffold Gradients for Combinatorial Screening in 3D. <i>Journal of Functional Biomaterials</i> , <b>2012</b> , 3, 173-82	4.8	18
72	Poly(ester amide)s from Soybean Oil for Modulated Release and Bone Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25170-84	9.5	18
71	Designer porous antibacterial membranes derived from thermally induced phase separation of PS/PVME blends decorated with an electrospun nanofiber scaffold. <i>RSC Advances</i> , <b>2016</b> , 6, 10865-10872	3.7	16
70	Polyester derived from recycled poly(ethylene terephthalate) waste for regenerative medicine. <i>RSC Advances</i> , <b>2014</b> , 4, 58805-58815	3.7	16
69	The control of crystallographic texture in the use of magnesium as a resorbable biomaterial. <i>RSC Advances</i> , <b>2014</b> , 4, 55677-55684	3.7	16
68	Nanostructured polymer scaffold decorated with cerium oxide nanoparticles toward engineering an antioxidant and anti-hypertrophic cardiac patch. <i>Materials Science and Engineering C</i> , <b>2021</b> , 118, 111416	8.3	16
67	Role of Microtubules in Osteogenic Differentiation of Mesenchymal Stem Cells on 3D Nanofibrous Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 551-559	5.5	15
66	Surface mechanical attrition treatment of low modulus Ti-Nb-Ta-O alloy for orthopedic applications. <i>Materials Science and Engineering C</i> , <b>2020</b> , 110, 110729	8.3	15
65	Biodegradable galactitol based crosslinked polyesters for controlled release and bone tissue engineering. <i>Materials Science and Engineering C</i> , <b>2017</b> , 77, 534-547	8.3	14
64	Surface Severe Plastic Deformation of an Orthopedic Ti-Nb-Sn Alloy Induces Unusual Precipitate Remodeling and Supports Stem Cell Osteogenesis through Akt Signaling. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 3132-3142	5.5	14
63	Engineering an in vitro organotypic model for studying cardiac hypertrophy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 165, 355-362	6	13
62	Facile synthesis of vanadia nanoparticles and assessment of antibacterial activity and cytotoxicity. <i>Materials Technology</i> , <b>2016</b> , 31, 562-573	2.1	13

61	Biodegradable polyol-based polymers for biomedical applications. <i>International Materials Reviews</i> , <b>2019</b> , 64, 288-309	16.1	13
60	A Novel Ex Vivo System Using 3D Polymer Scaffold to Culture Circulating Tumor Cells from Breast Cancer Patients Exhibits Dynamic E-M Phenotypes. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	12
59	Template-free hierarchical MoS <sub>2</sub> foam as a sustainable green scavenger of heavy metals and bacteria in point of use water purification. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2824-2834	5.1	12
58	Controlled release kinetics of p-aminosalicylic acid from biodegradable crosslinked polyesters for enhanced anti-mycobacterial activity. <i>Acta Biomaterialia</i> , <b>2016</b> , 30, 168-176	10.8	12
57	Poly(Ethylene Glycol) Functionalized Graphene Oxide in Tissue Engineering: A Review on Recent Advances. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 5991-6006	7.3	12
56	Role of aging induced precipitation on the mechanical and tribocorrosive performance of a Ti-Nb-Ta-O orthopedic alloy. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109755	8.3	11
55	Tailoring the degradation rate and release kinetics from poly(galactitol sebacate) by blending with chitosan, alginate or ethyl cellulose. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 93, 1591-1602	7.0	11
54	Poly(ester amide)s from Poly(ethylene terephthalate) Waste for Enhancing Bone Regeneration and Controlled Release. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 28281-28297	9.5	11
53	Variant selection in metastable Ti-V-Fe-Al alloy during triaxial and uniaxial compression. <i>Materialia</i> , <b>2018</b> , 4, 20-32	3.2	11
52	Review of recent developments in surface nanocrystallization of metallic biomaterials. <i>Nanoscale</i> , <b>2021</b> , 13, 2286-2301	7.7	11
51	Processing-Microstructure-Crystallographic Texture-Surface Property Relationships in Friction Stir Processing of Titanium. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 4206-4216	1.6	10
50	Biomaterials-based formulations and surfaces to combat viral infectious diseases. <i>APL Bioengineering</i> , <b>2021</b> , 5, 011503	6.6	10
49	Keratin mediated attachment of stem cells to augment cardiomyogenic lineage commitment. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 151, 178-188	6	9
48	A self-assembling polycationic nanocarrier that exhibits exceptional gene transfection efficiency. <i>RSC Advances</i> , <b>2015</b> , 5, 91619-91632	3.7	9
47	Maltitol-based biodegradable polyesters with tailored degradation and controlled release for bone regeneration. <i>RSC Advances</i> , <b>2016</b> , 6, 40539-40551	3.7	9
46	Light-based 3D bioprinting of bone tissue scaffolds with tunable mechanical properties and architecture from photocurable silk fibroin. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 202, 644-644	7.9	9
45	Enhanced biomechanical performance of additively manufactured Ti-6Al-4V bone plates. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 119, 104552	4.1	9
44	Modified Fermi level in strontium nanoparticles decorated reduced graphene oxide for wide concentration detection of nitrogen dioxide at room temperature. <i>Materials Research Express</i> , <b>2019</b> , 6, 065611	1.7	8

43	Localized delivery and enhanced osteogenic differentiation with biodegradable galactitol polyester elastomers. <i>RSC Advances</i> , <b>2016</b> , 6, 61492-61504	3.7	8
42	Nanoscale heterojunctions of rGO-MoS2 composites for nitrogen dioxide sensing at room temperature. <i>Nano Express</i> , <b>2020</b> , 1, 010003	2	7
41	Fiber Diameter Differentially Regulates Function of Retinal Pigment and Corneal Epithelial Cells on Nanofibrous Tissue Scaffolds.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 823-837	4.1	7
40	Challenges and opportunities in blood flow through porous substrate: A design and interface perspective of dried blood spot. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2019</b> , 175, 112772	3.5	7
39	Surface mechanical attrition treatment of additively manufactured 316L stainless steel yields gradient nanostructure with superior strength and ductility. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 820, 141540	5.3	7
38	A nanopillar array on black titanium prepared by reactive ion etching augments cardiomyogenic commitment of stem cells. <i>Nanoscale</i> , <b>2019</b> , 11, 20766-20776	7.7	7
37	Oligomer-grafted graphene in a soft nanocomposite augments mechanical properties and biological activity. <i>Materials and Design</i> , <b>2017</b> , 126, 238-249	8.1	6
36	Controlled Release of Usnic Acid from Biodegradable Polyesters to Inhibit Biofilm Formation. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 291-303	5.5	6
35	Surface engineering of additively manufactured titanium alloys for enhanced clinical performance of biomedical implants: A review of recent developments. <i>Bioprinting</i> , <b>2022</b> , 25, e00180	7	6
34	Sirtuin 6 mediated stem cell cardiomyogenesis on protein coated nanofibrous scaffolds. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 19, 145-155	6	5
33	Tailored Degradation and Dye Release from Poly(ester amides). <i>Polymer-Plastics Technology and Engineering</i> , <b>2017</b> , 56, 635-646		5
32	Microstructure, Texture and Mechanical Properties after Cold Working and Annealing in a Biomedical Ti-Nb-Ta Alloy. <i>Materials Science Forum</i> , <b>2018</b> , 941, 2465-2470	0.4	5
31	Ultra-Sensitive Detection of Proteins Using Chemically Modified Nanoporous PVDF Membrane with Attenuated Near IR Autofluorescence. <i>ChemistrySelect</i> , <b>2018</b> , 3, 3839-3847	1.8	4
30	Synthesis of a Block Copolymer Exhibiting Cell-Responsive Phytochemical Release for Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21816-21824	9.5	4
29	Establishing the microstructure-strengthening correlation in severely deformed surface of titanium. <i>Philosophical Magazine</i> , <b>2018</b> , 98, 2095-2119	1.6	4
28	Degradable poly(ester amide)s from olive oil for biomedical applications. <i>Emergent Materials</i> , <b>2019</b> , 2, 153-168	3.5	4
27	Microstructural study and mechanical characterisation of heat-treated direct metal laser sintered Ti6Al4V for biomedical applications. <i>Materials Technology</i> , <b>2020</b> , 1-12	2.1	4
26	Physical insights into salicylic acid release from poly(anhydrides). <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 2112-9	3.6	3

25	Evolution of Deformation Texture in Low Modulus Ti-34Nb-2Ta-(0, 3)Zr-0.5O Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 4045-4058	2.3	3
24	Isolation and Culture of Neonatal Murine Primary Cardiomyocytes. <i>Current Protocols</i> , <b>2021</b> , 1, e196		3
23	Protective Role of Decellularized Human Amniotic Membrane from Oxidative Stress-Induced Damage on Retinal Pigment Epithelial Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 357-372	5.5	3
22	Theoretical and computational investigations into mechanobactericidal activity of nanostructures at the bacteria-biomaterial interface: a critical review. <i>Nanoscale</i> , <b>2021</b> , 13, 647-658	7.7	3
21	MiRNomics Reveals Breast Cancer Cells Cultured on 3D Scaffolds Better Mimic Tumors in Vivo than Conventional 2D Culture. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 116-127	5.5	3
20	3D Tumor Models for Breast Cancer: Whither We Are and What We Need. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 3470-3486	5.5	3
19	A designer cell culture insert with a nanofibrous membrane toward engineering an epithelial tissue model validated by cellular nanomechanics. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4714-4725	5.1	3
18	Controlled release from aspirin based linear biodegradable poly(anhydride esters) for anti-inflammatory activity. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 528, 732-740	6.5	2
17	Surface engineering of biodegradable implants: emerging trends in bioactive ceramic coatings and mechanical treatments. <i>Materials Advances</i> ,	3.3	2
16	Additive manufacturing of CoCr alloys for biomedical applications: A concise review. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 3746	2.5	2
15	Gradient platform for combinatorial screening of thermoset polymers for biomedical applications. <i>Materials Science and Engineering C</i> , <b>2019</b> , 94, 766-777	8.3	2
14	Recapitulating pathophysiology of skeletal muscle diseases in vitro using primary mouse myoblasts on a nanofibrous platform. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2021</b> , 32, 102341	6	2
13	Bioinspired nanostructured bactericidal surfaces. <i>Current Opinion in Chemical Engineering</i> , <b>2021</b> , 34, 100741	5.4	2
12	Giant dielectric macroporous graphene oxide foams with aqueous salt solutions: Impedance spectroscopy. <i>Carbon</i> , <b>2019</b> , 155, 44-49	10.4	1
11	Electrophoretic Deposition of Nanocrystalline Calcium Phosphate Coating for Augmenting Bioactivity of Additively Manufactured Ti-6Al-4V. <i>ACS Materials Au</i> ,		1
10	Zinc and cerium synergistically enhance the mechanical properties, corrosion resistance, and osteogenic activity of magnesium as resorbable biomaterials. <i>Biomedical Materials (Bristol)</i> , <b>2021</b> , 16,	3.5	1
9	Phase Stability Study of Recently Developed Metastable p-Ti ALLOY Ti-32Nb-2Sn for Orthopedic Applications <b>2016</b> , 935-938		1
8	Senescent cells in 3D culture show suppressed senescence signatures. <i>Biomaterials Science</i> , <b>2021</b> , 9, 6467-6473	7.6	1



7	Bactericidal Anisotropic Nanostructures on Titanium Fabricated by Maskless Dry Etching. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 4447-4461	5.6	1
6	Anodization of medical grade stainless steel for improved corrosion resistance and nanostructure formation targeting biomedical applications. <i>Electrochimica Acta</i> , <b>2022</b> , 416, 140274	6.7	1
5	Fe <sub>3</sub> O <sub>4</sub> @Ag and Ag@Fe <sub>3</sub> O <sub>4</sub> CoreShell Nanoparticles for Radiofrequency Shielding and Bactericidal Activity. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 237-248	5.6	1
4	Laser Powder Bed Fusion Additive Manufacturing of a Low-Modulus Ti-35Nb-7Zr-5Ta Alloy for Orthopedic Applications.. <i>ACS Omega</i> , <b>2022</b> , 7, 8506-8517	3.9	0
3	Digital light processing-based 3D bioprinting of Carrageenan hydrogels for engineering cell-loaded tissue scaffolds.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 290, 119508	10.3	0
2	Ti <sub>6</sub> Al <sub>7</sub> Nb <sub>3</sub> BiB nanocomposites for ortho-implant applications. <i>Journal of Materials Research</i> , 1	2.5	0
1	Mechanical and electrochemical response in Surface treated low modulus biomedical alloy Ti-Nb-Ta-O. <i>MATEC Web of Conferences</i> , <b>2020</b> , 321, 05014	0.3	