Santanu Dhara

List of Publications by Year
in descending order

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174 papers	5,672 citations	71102 41 h-index	114465 63 g-index
181 all docs	181 docs citations	181 times ranked	7393 citing authors

#	Article	IF	Citations
1	Isolation and characterization of fish scale collagen of higher thermal stability. Bioresource Technology, 2010, 101, 3737-3742.	9.6	321
2	A Simple Direct Casting Route to Ceramic Foams. Journal of the American Ceramic Society, 2003, 86, 1645-1650.	3.8	134
3	Stimulus-Responsive, Biodegradable, Biocompatible, Covalently Cross-Linked Hydrogel Based on Dextrin and Poly(N-isopropylacrylamide) for in Vitro/in Vivo Controlled Drug Release. ACS Applied Materials & Interfaces, 2015, 7, 14338-14351.	8.0	117
4	Carbon nanodots from date molasses: new nanolights for the in vitro scavenging of reactive oxygen species. Journal of Materials Chemistry B, 2014, 2, 6839-6847.	5.8	109
5	Enhanced Redifferentiation of Chondrocytes on Microperiodic Silk/Gelatin Scaffolds: Toward Tailor-Made Tissue Engineering. Biomacromolecules, 2013, 14, 311-321.	5.4	108
6	Dextrin cross linked with poly(HEMA): a novel hydrogel for colon specific delivery of ornidazole. RSC Advances, 2013, 3, 25340.	3.6	105
7	Dextrin and Poly(acrylic acid)-Based Biodegradable, Non-Cytotoxic, Chemically Cross-Linked Hydrogel for Sustained Release of Ornidazole and Ciprofloxacin. ACS Applied Materials & Interfaces, 2015, 7, 4791-4803.	8.0	105
8	Enzymatically crosslinked carboxymethylâ€“chitosan/gelatin/nano-hydroxyapatite injectable gels for in situ bone tissue engineering application. Materials Science and Engineering C, 2011, 31, 1295-1304.	7.3	103
9	Influence of Porosity and Pore-Size Distribution in Ti₆Al₄ V Foam on Physicomechanical Properties, Osteogenesis, and Quantitative Validation of Bone Ingrowth by Micro-Computed Tomography. ACS Applied Materials & Interfaces, 2017, 9, 39235-39248.	8.0	101
10	Onion derived carbon nanodots for live cell imaging and accelerated skin wound healing. Journal of Materials Chemistry B, 2017, 5, 6579-6592.	5.8	98
11	Collagen scaffolds derived from fresh water fish origin and their biocompatibility. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1068-1079.	4.0	96
12	Chitosanâ€“collagen scaffolds with nano/microfibrous architecture for skin tissue engineering. Journal of Biomedical Materials Research - Part A, 2013, 101, 3482-3492.	4.0	88
13	Egg White as an Environmentally Friendly Lowâ€Cost Binder for Gelcasting of Ceramics. Journal of the American Ceramic Society, 2001, 84, 3048-3050.	3.8	86
14	Green Reduced Graphene Oxide Toughened Semi-IPN Monolith Hydrogel as Dual Responsive Drug Release System: Rheological, Physicomechanical, and Electrical Evaluations. Journal of Physical Chemistry B, 2018, 122, 7201-7218.	2.6	85
15	Heteroatom doped blue luminescent carbon dots as a nano-probe for targeted cell labeling and anticancer drug delivery vehicle. Materials Chemistry and Physics, 2019, 237, 121860.	4.0	79
16	Mechanically robust dual responsive water dispersible-graphene based conductive elastomeric hydrogel for tunable pulsatile drug release. Ultrasonics Sonochemistry, 2018, 42, 212-227.	8.2	77
17	Accelerated healing of full thickness dermal wounds by macroporous waterborne polyurethane-chitosan hydrogel scaffolds. Materials Science and Engineering C, 2017, 81, 133-143.	7.3	72
18	Waste chimney oil to nanolights: A low cost chemosensor for tracer metal detection in practical field and its polymer composite for multidimensional activity. Journal of Photochemistry and Photobiology B: Biology, 2018, 180, 56-67.	3.8	72

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19	Development of chitosanâ€“tripolyphosphate fibers through pH dependent ionotropic gelation. Carbohydrate Research, 2011, 346, 2582-2588.	2.3	70
20	Polysaccharide and poly(methacrylic acid) based biodegradable elastomeric biocompatible semi-IPN hydrogel for controlled drug delivery. Materials Science and Engineering C, 2018, 92, 34-51.	7.3	69
21	Bilayered nanofibrous 3D hierarchy as skin rudiment by emulsion electrospinning for burn wound management. Biomaterials Science, 2017, 5, 1786-1799.	5.4	66
22	In Situ Silver Nanowire Deposited Cross-Linked Carboxymethyl Cellulose: A Potential Transdermal Anticancer Drug Carrier. ACS Applied Materials & Interfaces, 2017, 9, 36583-36595.	8.0	65
23	Converting waste Allium sativum peel to nitrogen and sulphur co-doped photoluminescence carbon dots for solar conversion, cell labeling, and photobleaching diligences: A path from discarded waste to value-added products. Journal of Photochemistry and Photobiology B: Biology, 2019, 197, 111545.	3.8	65
24	Biocompatible carbon dots derived from Î¹-carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior. International Journal of Biological Macromolecules, 2019, 132, 316-329.	7.5	65
25	One pot synthesis of intriguing fluorescent carbon dots for sensing and live cell imaging. Talanta, 2016, 150, 253-264.	5.5	61
26	Multi-nucleated cells use ROS to induce breast cancer chemo-resistance in vitro and in vivo. Oncogene, 2018, 37, 4546-4561.	5.9	61
27	Thermoresponsive biodegradable PEGâ€PCLâ€PEG based injectable hydrogel for pulsatile insulin delivery. Journal of Biomedical Materials Research - Part A, 2014, 102, 1500-1509.	4.0	60
28	A biodegradable, biocompatible transdermal device derived from carboxymethyl cellulose and multi-walled carbon nanotubes for sustained release of diclofenac sodium. RSC Advances, 2016, 6, 19605-19611.	3.6	60
29	Silk Sponges Ornamented with a Placenta-Derived Extracellular Matrix Augment Full-Thickness Cutaneous Wound Healing by Stimulating Neovascularization and Cellular Migration. ACS Applied Materials & Interfaces, 2018, 10, 16977-16991.	8.0	57
30	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UVâ€active marker and fluorescent polymer composite. Luminescence, 2018, 33, 1136-1145.	2.9	55
31	Novel pH-sensitive alginate hydrogel delivery system reinforced with gum tragacanth for intestinal targeting of nutraceuticals. International Journal of Biological Macromolecules, 2020, 147, 675-687.	7.5	54
32	Hydrogels and electrospun nanofibrous scaffolds of N-methylene phosphonic chitosan as bioinspired osteoconductive materials for bone grafting. Carbohydrate Polymers, 2012, 87, 1354-1362.	10.2	53
33	Design of psyllium-g-poly(acrylic acid-co-sodium acrylate)/cloisite 10A semi-IPN nanocomposite hydrogel and its mechanical, rheological and controlled drug release behaviour. International Journal of Biological Macromolecules, 2018, 111, 983-998.	7.5	53
34	Accelerating full thickness wound healing using collagen sponge of mrigal fish (Cirrhinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (	7.5	52
35	A Simple Approach for an Eggshell-Based 3D-Printed Osteoinductive Multiphasic Calcium Phosphate Scaffold. ACS Applied Materials & Interfaces, 2016, 8, 11910-11924.	8.0	52
36	Surface Modification of Eggshell Membrane with Electrospun Chitosan/Polycaprolactone Nanofibers for Enhanced Dermal Wound Healing. ACS Applied Bio Materials, 2018, 1, 985-998.	4.6	51

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37	Dextrin and poly(lactide)-based biocompatible and biodegradable nanogel for cancer targeted delivery of doxorubicin hydrochloride. Polymer Chemistry, 2016, 7, 2965-2975.	3.9	50
38	Nano-/Microfibrous Cotton-Wool-Like 3D Scaffold with Coreâ€“Shell Architecture by Emulsion Electrospinning for Skin Tissue Regeneration. ACS Biomaterials Science and Engineering, 2017, 3, 3563-3575.	5.2	50
39	Polycaprolactone nanofibers functionalized with placental derived extracellular matrix for stimulating wound healing activity. Journal of Materials Chemistry B, 2018, 6, 6767-6780.	5.8	48
40	Investigating the potential of human placenta-derived extracellular matrix sponges coupled with amniotic membrane-derived stem cells for osteochondral tissue engineering. Journal of Materials Chemistry B, 2016, 4, 613-625.	5.8	47
41	Physico-chemical/biological properties of tripolyphosphate cross-linked chitosan based nanofibers. Materials Science and Engineering C, 2013, 33, 1446-1454.	7.3	46
42	Core-Shell Nanofibrous Scaffold Based on Polycaprolactone-Silk Fibroin Emulsion Electrospinning for Tissue Engineering Applications. Bioengineering, 2018, 5, 68.	3.5	46
43	Stimuli-responsive, biocompatible hydrogel derived from glycogen and poly(N-isopropylacrylamide) for colon targeted delivery of ornidazole and 5-amino salicylic acid. Polymer Chemistry, 2016, 7, 5426-5435.	3.9	44
44	Anisotropy Properties of Tissues: A Basis for Fabrication of Biomimetic Anisotropic Scaffolds for Tissue Engineering. Journal of Bionic Engineering, 2019, 16, 842-868.	5.0	44
45	Biomimetic silk fibroin and xanthan gum blended hydrogels for connective tissue regeneration. International Journal of Biological Macromolecules, 2020, 165, 874-882.	7.5	43
46	Î²-Cyclodextrin-Based Ultrahigh Stretchable, Flexible, Electro- and Pressure-Responsive, Adhesive, Transparent Hydrogel as Motion Sensor. ACS Applied Materials & Interfaces, 2022, 14, 17065-17080.	8.0	42
47	In vitro cytocompatibility and blood compatibility of polysulfone blend, surface-modified polysulfone and polyacrylonitrile membranes for hemodialysis. RSC Advances, 2015, 5, 7023-7034.	3.6	41
48	Biocompatible nanogel derived from functionalized dextrin for targeted delivery of doxorubicin hydrochloride to MG 63 cancer cells. Carbohydrate Polymers, 2017, 171, 27-38.	10.2	41
49	Simultaneous hydrothermal bioactivation with nano-topographic modulation of porous titanium alloys towards enhanced osteogenic and antimicrobial responses. Journal of Materials Chemistry B, 2018, 6, 2877-2893.	5.8	41
50	Influence of Slurry Characteristics on Porosity and Mechanical Properties of Alumina Foams. International Journal of Applied Ceramic Technology, 2006, 3, 382-392.	2.1	39
51	Sonication Assisted Hierarchical Decoration of Ag-NP on Zinc Oxide Nanoflower Impregnated Eggshell Membrane: Evaluation of Antibacterial Activity and in Vitro Cytocompatibility. ACS Sustainable Chemistry and Engineering, 2019, 7, 13717-13733.	6.7	39
52	Î²-Cyclodextrin based pH and thermo-responsive biopolymeric hydrogel as a dual drug carrier. Materials Chemistry Frontiers, 2019, 3, 385-393.	5.9	38
53	Carbon Nanodots Doped Super-paramagnetic Iron Oxide Nanoparticles for Multimodal Bioimaging and Osteochondral Tissue Regeneration via External Magnetic Actuation. ACS Biomaterials Science and Engineering, 2019, 5, 3549-3560.	5.2	37
54	Oleoyl-Chitosan-Based Nanofiber Mats Impregnated with Amniotic Membrane Derived Stem Cells for Accelerated Full-Thickness Excisional Wound Healing. ACS Biomaterials Science and Engineering, 2017, 3, 1738-1749.	5.2	36

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55	Influence of Nature and Amount of Dispersant on Rheology of Aged Aqueous Alumina Gelcasting Slurries. Journal of the American Ceramic Society, 2005, 88, 547-552.	3.8	35
56	On-Demand Guided Bone Regeneration with Microbial Protection of Ornamented SPU Scaffold with Bismuth-Doped Single Crystalline Hydroxyapatite: Augmentation and Cartilage Formation. ACS Applied Materials & Interfaces, 2016, 8, 4086-4100.	8.0	35
57	Bioimpedimetric analysis in conjunction with growth dynamics to differentiate aggressiveness of cancer cells. Scientific Reports, 2018, 8, 783.	3.3	35
58	Electrospun nanofibers of a phosphorylated polymerâ€"A bioinspired approach for bone graft applications. Colloids and Surfaces B: Biointerfaces, 2012, 94, 177-183.	5.0	34
59	Comparison of Osteoconduction, cytocompatibility and corrosion protection performance of hydroxyapatite-calcium hydrogen phosphate composite coating synthesized in-situ through pulsed electro-deposition with varying amount of phase and crystallinity. Surfaces and Interfaces, 2018, 10, 1-10.	3.0	34
60	In Vivo Cell Tracking, Reactive Oxygen Species Scavenging, and Antioxidative Gene Down Regulation by Long-Term Exposure of Biomass-Derived Carbon Dots. ACS Biomaterials Science and Engineering, 2019, 5, 346-356.	5.2	34
61	Critical issues in near net shape forming via green machining of ceramics: A case study of alumina dental crown. Journal of Asian Ceramic Societies, 2013, 1, 274-281.	2.3	33
62	Nanocomposite hydrogel derived from poly (methacrylic acid)/carboxymethyl cellulose/AuNPs: A potential transdermal drugs carrier. Polymer, 2017, 120, 9-19.	3.8	33
63	Covalent cross-links in polyampholytic chitosan fibers enhances bone regeneration in a rabbit model. Colloids and Surfaces B: Biointerfaces, 2015, 125, 160-169.	5.0	32
64	Inhibition of fibrillation of human serum albumin through interaction with chitosan-based biocompatible silver nanoparticles. RSC Advances, 2016, 6, 43104-43115.	3.6	32
65	Synthesis, characterization and cytocompatibility assessment of hydroxyapatite-polypyrrole composite coating synthesized through pulsed reverse electrochemical deposition. Materials Science and Engineering C, 2019, 94, 597-607.	7.3	32
66	<I>In Vitro</I> ALP and Osteocalcin Gene Expression Analysis and In VivoBiocompatibility of N-Methylene Phosphonic Chitosan Nanofibers for Bone Regeneration. Journal of Biomedical Nanotechnology, 2013, 9, 870-879.	1.1	31
67	Excavating the Role of Aloe Vera Wrapped Mesoporous Hydroxyapatite Frame Ornamentation in Newly Architectured Polyurethane Scaffolds for Osteogenesis and Guided Bone Regeneration with Microbial Protection. ACS Applied Materials & Interfaces, 2016, 8, 5941-5960.	8.0	31
68	Organic solvent-free low temperature method of preparation for self assembled amphiphilic poly(Ïµ-caprolactone)â€"poly(ethylene glycol) block copolymer based nanocarriers for protein delivery. Colloids and Surfaces B: Biointerfaces, 2015, 135, 510-517.	5.0	30
69	Role of nanofibers on MSCs fate: Influence of fiber morphologies, compositions and external stimuli. Materials Science and Engineering C, 2020, 107, 110218.	7.3	30
70	Green Machining to Net Shape Alumina Ceramics Prepared Using Different Processing Routes. International Journal of Applied Ceramic Technology, 2005, 2, 262-270.	2.1	29
71	Microfabrication of green ceramics: Contact vs. non-contact machining. Journal of the European Ceramic Society, 2015, 35, 3909-3916.	5.7	29
72	MWCNT reinforced bone like calcium phosphateâ€"Hydroxyapatite composite coating developed through pulsed electrodeposition with varying amount of apatite phase and crystallinity to promote superior osteoconduction, cytocompatibility and corrosion protection performance compared to bare metallic implant surface. Surface and Coatings Technology, 2017, 325, 496-514.	4.8	29

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73	Synthesis of Nanocrystalline Alumina Using Egg White. Journal of the American Ceramic Society, 2005, 88, 2003-2004.	3.8	28
74	2,5-Dimethoxy 2,5-dihydrofuran crosslinked chitosan fibers enhance bone regeneration in rabbit femur defects. RSC Advances, 2014, 4, 19516-19524.	3.6	28
75	pH-labile and photochemically cross-linkable polymer vesicles from coumarin based random copolymer for cancer therapy. Journal of Colloid and Interface Science, 2019, 555, 132-144.	9.4	28
76	Poly(maleic acid) â€“ A novel dispersant for aqueous alumina slurry. Journal of Asian Ceramic Societies, 2013, 1, 184-190.	2.3	27
77	Development and application of a nanocomposite derived from crosslinked HPMC and Au nanoparticles for colon targeted drug delivery. RSC Advances, 2015, 5, 27481-27490.	3.6	27
78	Carbon nanodot impregnated fluorescent nanofibers for in vivo monitoring and accelerating full-thickness wound healing. Journal of Materials Chemistry B, 2017, 5, 6645-6656.	5.8	27
79	Fabrication and characterization of polyvinyl alcohol/metal (Ca, Mg, Ti) doped zirconium phosphate nanocomposite films for scaffold-guided tissue engineering application. Materials Science and Engineering C, 2017, 71, 363-371.	7.3	27
80	Biocompatible, stimuliâ€responsive hydrogel of chemically crosslinked Î²â€cyclodextrin as amoxicillin carrier. Journal of Applied Polymer Science, 2018, 135, 45939.	2.6	27
81	Morphologyâ€induced physicoâ€mechanical and biological characteristics of TPUâ€“PDMS blend scaffolds for skin tissue engineering applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1634-1644.	3.4	27
82	Carbon nanodot decorated acellular dermal matrix hydrogel augments chronic wound closure. Journal of Materials Chemistry B, 2020, 8, 9277-9294.	5.8	27
83	Decellularized bone matrix/oleoyl chitosan derived supramolecular injectable hydrogel promotes efficient bone integration. Materials Science and Engineering C, 2021, 119, 111604.	7.3	27
84	Enhanced corrosion, tribocorrosion resistance and controllable osteogenic potential of stem cells on micro-rippled Ti6Al4V surfaces produced by pulsed laser remelting. Journal of Manufacturing Processes, 2021, 65, 119-133.	5.9	27
85	Citrate Cross-Linked Gels with Strain Reversibility and Viscoelastic Behavior Accelerate Healing of Osteochondral Defects in a Rabbit Model. Langmuir, 2014, 30, 8442-8451.	3.5	26
86	Laser surface remelting of Ti and its alloys for improving surface biocompatibility of orthopaedic implants. Materials Technology, 2018, 33, 106-118.	3.0	26
87	Hierarchical surface morphology on Ti6Al4V via patterning and hydrothermal treatment towards improving cellular response. Applied Surface Science, 2019, 478, 806-817.	6.1	26
88	In vitro evaluation of osteoconductivity and cellular response of zirconia and alumina based ceramics. Materials Science and Engineering C, 2013, 33, 3923-3930.	7.3	25
89	Development of chitosan-tripolyphosphate non-woven fibrous scaffolds for tissue engineering application. Journal of Materials Science: Materials in Medicine, 2012, 23, 1085-1096.	3.6	24
90	Osseointegration assessment of extrusion printed Ti6Al4V scaffold towards accelerated skeletal defect healing via tissue in-growth. Bioprinting, 2017, 6, 8-17.	5.8	24

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91	Identification and characterization of bioactive phenolic constituents, anti-proliferative, and anti-angiogenic activity of stem extracts of Basella alba and rubra. Journal of Food Science and Technology, 2018, 55, 1675-1684.	2.8	23
92	The heatâ€“chill method for preparation of self-assembled amphiphilic poly(Îµ-caprolactone)â€“poly(ethylene glycol) block copolymer based micellar nanoparticles for drug delivery. Soft Matter, 2014, 10, 2150-2159.	2.7	22
93	Microwave assisted rapid synthesis of N-methylene phosphonic chitosan via Mannich-type reaction. Carbohydrate Polymers, 2015, 133, 345-352.	10.2	22
94	Chitosan Derivatives Cross-Linked with Iodinated 2,5-Dimethoxy-2,5-dihydrofuran for Non-Invasive Imaging. ACS Applied Materials & Interfaces, 2014, 6, 17926-17936.	8.0	21
95	Coagulant assisted foaming â€“ A method for cellular Ti6Al4V: Influence of microstructure on mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 63-71.	5.6	21
96	Biopolymeric nanogel derived from functionalized glycogen towards targeted delivery of 5-fluorouracil. Polymer, 2018, 140, 122-130.	3.8	21
97	Design of porous titanium scaffold for complete mandibular reconstruction: The influence of pore architecture parameters. Computers in Biology and Medicine, 2019, 108, 31-41.	7.0	21
98	Osteoblastic cellular responses on ionically crosslinked chitosanâ€tripolyphosphate fibrous 3â€D mesh scaffolds. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2526-2537.	4.0	20
99	Net shape forming of green alumina via CNC machining using diamond embedded tool. Ceramics International, 2013, 39, 8985-8993.	4.8	20
100	Surfactant and catalyst free facile synthesis of Al-doped ZnO nanorods â€“ An approach towards fabrication of single nanorod electrical devices. Applied Surface Science, 2020, 512, 145732.	6.1	20
101	Bioinspired 3D porous human placental derived extracellular matrix/silk fibroin sponges for accelerated bone regeneration. Materials Science and Engineering C, 2020, 113, 110990.	7.3	20
102	Development of a Thermoresponsive Polymeric Composite Film Using Cross-Linked Î²-Cyclodextrin Embedded with Carbon Quantum Dots as a Transdermal Drug Carrier. ACS Applied Bio Materials, 2020, 3, 3285-3293.	4.6	20
103	Single step synthesized sulfur and nitrogen doped carbon nanodots from whey protein: nanoprobes for longterm cell tracking crossing the barrier of photo-toxicity. RSC Advances, 2016, 6, 60794-60805.	3.6	19
104	Tailorable hydrogel of gelatin with silk fibroin and its activation/crosslinking for enhanced proliferation of fibroblast cells. International Journal of Biological Macromolecules, 2020, 164, 4073-4083.	7.5	19
105	Biopolymeric pH-responsive fluorescent gel for in-vitro and in-vivo colon specific delivery of metronidazole and ciprofloxacin. European Polymer Journal, 2019, 114, 255-264.	5.4	18
106	Dual Functionalized Injectable Hybrid Extracellular Matrix Hydrogel for Burn Wounds. Biomacromolecules, 2021, 22, 514-533.	5.4	18
107	Î±â€Alumina Fiber with Platelet Morphology Through Wet Spinning. Journal of the American Ceramic Society, 2012, 95, 1234-1240.	3.8	17
108	Synthesis of RAFTâ€Mediated Amphiphilic Graft Copolymeric Micelle Using Dextran and Poly (Oleic Acid) toward Oral Delivery of Nifedipine. Journal of Polymer Science Part A, 2018, 56, 2354-2363.	2.3	17

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109	Hybrid electrospun fibers based on TPU-PDMS and spherical nanohydroxyapatite for bone tissue engineering. Materials Today Communications, 2018, 16, 264-273.	1.9	17
110	Microsphere embedded hydrogel construct â€“ binary delivery of alendronate and BMP-2 for superior bone regeneration. Journal of Materials Chemistry B, 2021, 9, 6856-6869.	5.8	17
111	Poly(N-vinyl imidazole) Cross-Linked Î²-Cyclodextrin Hydrogel for Rapid Hemostasis in Severe Renal Arterial Hemorrhagic Model. Biomacromolecules, 2021, 22, 5256-5269.	5.4	17
112	Manganese oxide-carbon quantum dots nano-composites for fluorescence/magnetic resonance (T1) dual mode bioimaging, long term cell tracking, and ROS scavenging. Materials Science and Engineering C, 2019, 102, 427-436.	7.3	16
113	Carbon nano dot decorated copper nanowires for SERS-Fluorescence dual-mode imaging/anti-microbial activity and enhanced angiogenic activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117669.	3.9	16
114	In Situ Iodination Cross-Linking of Silk for Radio-Opaque Antimicrobial Surgical Sutures. ACS Biomaterials Science and Engineering, 2016, 2, 188-196.	5.2	15
115	Collagen Intermingled Chitosan-Tripolyphosphate Nano/Micro Fibrous Scaffolds for Tissue-Engineering Application. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 1923-1938.	3.5	14
116	Ex vivo bio-compatibility of honey-alginate fibrous matrix for HaCaT and 3T3 with prime molecular expressions. Journal of Materials Science: Materials in Medicine, 2014, 25, 2659-2667.	3.6	14
117	Novel pH-responsive graft copolymer based on HPMC and poly(acrylamide) synthesised by microwave irradiation: application in controlled release of ornidazole. Cellulose, 2015, 22, 313-327.	4.9	14
118	Biocompatible amphiphilic microgel derived from dextrin and poly(methyl methacrylate) for dual drugs carrier. Polymer, 2016, 107, 282-291.	3.8	14
119	Development of ultrafine chitosan fibers through modified wetspinning technique. Journal of Applied Polymer Science, 2011, 121, 1550-1557.	2.6	13
120	Structurally Tuned Antimicrobial Mesoporous Hydroxyapatite Nanorods by Cyclic Oligosaccharides Regulation To Release a Drug for Osteomyelitis. Crystal Growth and Design, 2017, 17, 433-445.	3.0	13
121	Osteochondral Defects Healing Using Extracellular Matrix Mimetic Phosphate/Sulfate Decorated GAGs-Agarose Gel and Quantitative Micro-CT Evaluation. ACS Biomaterials Science and Engineering, 2019, 5, 149-164.	5.2	13
122	Isolation and mass spectrometry based hydroxyproline mapping of type II collagen derived from Capra hircus ear cartilage. Communications Biology, 2019, 2, 146.	4.4	13
123	Impact of styrene maleic anhydride (SMA) based hydrogel on rat fallopian tube as contraceptive implant with selective antimicrobial property. Materials Science and Engineering C, 2019, 94, 94-107.	7.3	13
124	Numerical analysis of the mechanical behaviour of intact and implanted lumbar functional spinal units: Effects of loading and boundary conditions. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 792-804.	1.8	12
125	Biofunctional Phosphorylated Chitosan Hydrogels Prepared Above pH 6 and Effect of Crosslinkers on Gel Properties Towards Biomedical Applications. Soft Materials, 2014, 12, 27-35.	1.7	11
126	Deposition of zinc oxide nanomaterial on different substrates for useful applications. CrystEngComm, 2014, 16, 4322.	2.6	11

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127	Amino Acid Inspired Alginate-Based pH Sensitive Polymeric Micelles via Reversible Additionâ€“Fragmentation Chain Transfer Polymerization. ACS Applied Polymer Materials, 2022, 4, 4432-4444.	4.4	11
128	Influence of Copper on the Microstructural, Mechanical, and Biological Properties of Commercially Pure Zn-Based Alloys for a Potential Biodegradable Implant. ACS Biomaterials Science and Engineering, 2022, 8, 1443-1463.	5.2	10
129	Optically engineered ZnO Nanoparticles: Excitable at visible wavelength and lowered cytotoxicity towards bioimaging applications. Applied Surface Science, 2022, 592, 153303.	6.1	10
130	Metal Ion Augmented Mussel Inspired Polydopamine Immobilized 3D Printed Osteoconductive Scaffolds for Accelerated Bone Tissue Regeneration. ACS Applied Materials & Interfaces, 2022, 14, 28455-28475.	8.0	10
131	Understanding and tuning of polymer surfaces for dialysis applications. Polymers for Advanced Technologies, 2017, 28, 174-187.	3.2	8
132	Orthotropic bone remodelling around uncemented femoral implant: a comparison with isotropic formulation. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1115-1134.	2.8	8
133	Effect of Vitamin E and a Long-Chain Alcohol n-Octanol on the Carbohydrate-Based Nonionic Amphiphile Sucrose Monolaurateâ€”Formulation of Newly Developed Niosomes and Application in Cell Imaging. ACS Omega, 2017, 2, 7637-7646.	3.5	7
134	Doping of Carbon Quantum Dots (CDs) in Calcium Phosphate Nanorods for Inducing Ectopic Chondrogenesis via Activation of the HIF-Î±/SOX-9 Pathway. ACS Omega, 2019, 4, 374-386.	3.5	7
135	Synthesis of a new triple-responsive biocompatible block copolymer: Self-assembled nanoparticles as potent anticancer drug delivery vehicle. Reactive and Functional Polymers, 2020, 154, 104679.	4.1	7
136	Dense-porous multilayer ceramics by green shaping and salt leaching. Open Ceramics, 2021, 5, 100084.	2.0	7
137	Direct 3D Printing of Seashell Precursor toward Engineering a Multiphasic Calcium Phosphate Bone Graft. ACS Biomaterials Science and Engineering, 2021, 7, 3806-3820.	5.2	7
138	Nature inspired dough processing of alumina-zirconia composites: Rheology, plasticity and weibull analysis towards net shaping. Journal of the European Ceramic Society, 2021, 41, 7170-7181.	5.7	7
139	pH-Responsive Copolymeric Network Gel Using Methacrylated Î²-Cyclodextrin for Controlled Codelivery of Hydrophilic and Hydrophobic Drugs. ACS Applied Bio Materials, 2022, 5, 3530-3543.	4.6	7
140	Doping of carbon nanodots for saving cells from silver nanotoxicity: A study on recovering osteogenic differentiation potential. Toxicology in Vitro, 2019, 57, 81-95.	2.4	6
141	Biochemical Characterization of VapC46 Toxin from Mycobacterium tuberculosis. Molecular Biotechnology, 2020, 62, 335-343.	2.4	6
142	Bone remodelling in implanted proximal femur using topology optimization and parameterized cellular model. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104903.	3.1	6
143	Symbiotically Augmented removal of Congo red by polyaniline/cobalt sulfide/graphite composites. Materials Chemistry and Physics, 2022, 278, 125487.	4.0	6
144	Hybrid scaffold comprising of nanofibers and extrusion printed PCL for tissue engineering. Materials Today: Proceedings, 2019, 11, 804-812.	1.8	5

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145	Denaturant-Mediated Modulation of the Formation and Drug Encapsulation Responses of Gold Nanoparticles. Langmuir, 2020, 36, 7634-7647.	3.5	5
146	A reductionist approach to extract robust molecular markers from microarray data series â€“ Isolating markers to track osseointegration. Journal of Biomedical Informatics, 2017, 68, 104-111.	4.3	4
147	Load transfer across a mandible during a mastication cycle: The effects of odontogenic tumour. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 486-495.	1.8	4
148	Exploration of varying coordination reactivity of Schiff base H3L toward CdII, ZnII and MgII: Hydroxido-bridged dimer, acetato-directed chain and live cell-imaging. Polyhedron, 2021, 205, 115288.	2.2	4
149	A vascularized bone-on-a-chip model development via exploring mechanical stimulation for evaluation of fracture healing therapeutics. In Vitro Models, 2022, 1, 73-83.	2.0	4
150	Simplified Aqueous Gelcasting of Silicon Carbide Ceramics. Transactions of the Indian Ceramic Society, 2004, 63, 199-202.	1.0	3
151	Development of chitosan-tripolyphosphate fiber for biomedical application. , 2010, , .		3
152	Radiopaque Hemocompatible Ruminant-Sourced Gut Material with Antimicrobial Physiognomies for Biomedical Applications in Diabetics. ACS Omega, 2017, 2, 755-764.	3.5	3
153	Mycobacterial heat shock protein 65 mediated metabolic shift in decidualization of human endometrial stromal cells. Scientific Reports, 2017, 7, 3942.	3.3	3
154	Dough Extrusion Forming of Titanium Alloysâ€"Green Body Characteristics, Microstructure and Mechanical Properties. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	3
155	Engineering Porosity in Electrospun Nanofiber Sheets by Laser Engraving: A Strategy to Fabricate 3D Scaffolds for Bone Graft Applications. Journal of the Indian Institute of Science, 2019, 99, 329-337.	1.9	3
156	Trimodal attributes within acidic mesostructured bioactive glass nanoparticles. Materials Letters, 2021, 293, 129677.	2.6	3
157	Functional gradient coating of alumina on net shaped zirconia implant: Improved strength, aging resistance, and role of residual stress. Journal of the European Ceramic Society, 2022, , .	5.7	3
158	SINGLE STEP SINTERED CALCIUM PHOSPHATE FIBERS FROM AVIAN EGG SHELL. International Journal of Modern Physics Conference Series, 2013, 22, 305-312.	0.7	2
159	Calcium phosphate flowers. Materials Today, 2017, 20, 657-658.	14.2	2
160	Synthesis of a novel copolymer using glycogen and poly(lactide) as a carrier of dual drugsâ€"ornidazole and ofloxacin. Journal of Polymer Science Part A, 2019, 57, 1697-1703.	2.3	2
161	Reverse Engineering Approach for Customized Dental and Maxillofacial Implants of Alumina Fibre Reinforced Composite. Materials Today: Proceedings, 2019, 11, 753-760.	1.8	2
162	Monolith Dental Bridge by Soft Machining of Dried Ceramic Dough. Frontiers in Dental Medicine, 2021, 2, .	1.4	2

#	Article	IF	Citations
163	Raman spectroscopy assisted biochemical evaluation of L929 fibroblast cells on differentially crosslinked gelatin hydrogels. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 257, 119760.	3.9	2
164	Bone Remodelling Around Solid and Porous Interbody Cages in the Lumbar Spine. Journal of Biomechanical Engineering, 2022, , .	1.3	2
165	Honey based fibrous scaffold for tissue engineering application. , 2011, , .		1
166	Single-pot biofabrication of living fibers for tissue engineering applications. Journal of Materials Research, 2018, 33, 2019-2028.	2.6	1
167	Laser Patterned ZNO Substituted Calcium Phosphate Scaffolds via Viscous Polymer Processing for Bone Graft. Materials Today: Proceedings, 2019, 11, 849-858.	1.8	1
168	Engineered surfaces: A plausible alternative in overviewing critical barriers for reconstructing modern therapeutics or biomimetic scaffolds. , 2021, , 39-80.		1
169	A novel strategy for fabricating zirconia implants with a trabecular biomimetic porous surface. Journal of the American Ceramic Society, 2022, 105, 5131-5139.	3.8	1
170	Hierarchical Decoration of Eggshell Membrane with Polycaprolactone Nanofibers to fabricate a Bilayered Scaffold for Skin Tissue Engineering. MRS Advances, 2019, 4, 1215-1221.	0.9	0
171	Net shape forming of Ti6Al4V implants via green machining. Journal of Materials Research, 0, , 1.	2.6	0
172	Electro-conductive biomaterial based on gelatin-silk fibroin and polypyrrole. AIP Conference Proceedings, 2020, , .	0.4	0
173	3D Printing: Challenges and Its Prospect in Futuristic Tissue Engineering Applications. Materials Horizons, 2020, , 1-22.	0.6	0
174	Hyperbranched Copolymers Forming Polymersome-like Structures Used for Encapsulation and Controlled Release of Î±-Tocopherol Succinate (TOS): Drug Transport Modeling. ACS Applied Bio Materials, 2021, 4, 8236-8247.	4.6	0