Santanu Dhara

List of Publications by Year in Descending Order

168 papers	3,967 citations	35 h-index	54 g-index
181 ext. papers	4,741 ext. citations	5.3 avg, IF	5.83 L-index

#	Paper	IF	Citations
168	Bone remodelling in implanted proximal femur using topology optimization and parameterized cellular model. *Journal of the Mechanical Behavior of Biomedical Materials*, **2022**, 125, 104903	4.1	1
167	Optically Engineered ZnO Nanoparticles: Excitable at Visible Wavelength and Lowered Cytotoxicity towards Bioimaging Applications. *Applied Surface Science*, **2022**, 153303	6.7	0
166	Tailoring Multi-Functional 1D or 2D Nanomaterials: An Approach towards Engineering Futuristic Ultrasensitive Platforms for Rapid Detection of Microbial Strains **2022**, 233-264		0
165	Hyperbranched Copolymers Forming Polymersome-like Structures Used for Encapsulation and Controlled Release of □Tocopherol Succinate (TOS): Drug Transport Modeling.. *ACS Applied Bio Materials*, **2021**, 4, 8236-8247	4.1	
164	Symbiotically Augmented removal of Congo red by polyaniline/cobalt sulfide/graphite composites. *Materials Chemistry and Physics*, **2021**, 278, 125487	4.4	1
163	Poly(-vinyl imidazole) Cross-Linked □Cyclodextrin Hydrogel for Rapid Hemostasis in Severe Renal Arterial Hemorrhagic Model. *Biomacromolecules*, **2021**,	6.9	2
162	Dual Functionalized Injectable Hybrid Extracellular Matrix Hydrogel for Burn Wounds. *Biomacromolecules*, **2021**, 22, 514-533	6.9	6
161	Dense-porous multilayer ceramics by green shaping and salt leaching. *Open Ceramics*, **2021**, 5, 100084	3.3	3
160	Orthotropic bone remodelling around uncemented femoral implant: a comparison with isotropic formulation. *Biomechanics and Modeling in Mechanobiology*, **2021**, 20, 1115-1134	3.8	2
159	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	1.7	1
158	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	4
157	Trimodal attributes within acidic mesostructured bioactive glass nanoparticles. *Materials Letters*, **2021**, 293, 129677	3.3	1
156	Decellularized bone matrix/oleoyl chitosan derived supramolecular injectable hydrogel promotes efficient bone integration. *Materials Science and Engineering C*, **2021**, 119, 111604	8.3	8
155	Microsphere embedded hydrogel construct - binary delivery of alendronate and BMP-2 for superior bone regeneration. *Journal of Materials Chemistry B*, **2021**, 9, 6856-6869	7.3	1
154	Direct 3D Printing of Seashell Precursor toward Engineering a Multiphasic Calcium Phosphate Bone Graft. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3806-3820	5.5	2
153	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	4.4	0
152	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	2.7	3

151	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	6	1
150	Engineered surfaces: A plausible alternative in overviewing critical barriers for reconstructing modern therapeutics or biomimetic scaffolds **2021**, 39-80		0
149	Denaturant-Mediated Modulation of the Formation and Drug Encapsulation Responses of Gold Nanoparticles. *Langmuir*, **2020**, 36, 7634-7647	4	3
148	Biochemical Characterization of VapC46 Toxin from Mycobacterium tuberculosis. *Molecular Biotechnology*, **2020**, 62, 335-343	3	1
147	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	4.6	5
146	Surfactant and catalyst free facile synthesis of Al-doped ZnO nanorods An approach towards fabrication of single nanorod electrical devices. *Applied Surface Science*, **2020**, 512, 145732	6.7	14
145	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	1.7	0
144	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	7.9	23
143	Bioinspired 3D porous human placental derived extracellular matrix/silk fibroin sponges for accelerated bone regeneration. *Materials Science and Engineering C*, **2020**, 113, 110990	8.3	7
142	3D Printing: Challenges and Its Prospect in Futuristic Tissue Engineering Applications. *Materials Horizons*, **2020**, 1-22	0.6	
141	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	4.4	9
140	Role of nanofibers on MSCs fate: Influence of fiber morphologies, compositions and external stimuli. *Materials Science and Engineering C*, **2020**, 107, 110218	8.3	19
139	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	7.9	9
138	Biomimetic silk fibroin and xanthan gum blended hydrogels for connective tissue regeneration. *International Journal of Biological Macromolecules*, **2020**, 165, 874-882	7.9	16
137	Carbon nanodot decorated acellular dermal matrix hydrogel augments chronic wound closure. *Journal of Materials Chemistry B*, **2020**, 8, 9277-9294	7.3	9
136	Development of a Thermoresponsive Polymeric Composite Film Using Cross-Linked Cyclodextrin Embedded with Carbon Quantum Dots as a Transdermal Drug Carrier.. *ACS Applied Bio Materials*, **2020**, 3, 3285-3293	4.1	7
135	Hybrid scaffold comprising of nanofibers and extrusion printed PCL for tissue engineering. *Materials Today: Proceedings*, **2019**, 11, 804-812	1.4	3
134	Cyclodextrin based pH and thermo-responsive biopolymeric hydrogel as a dual drug carrier. *Materials Chemistry Frontiers*, **2019**, 3, 385-393	7.8	22

133	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	5.5	12
132	Hierarchical Decoration of Eggshell Membrane with Polycaprolactone Nanofibers to fabricate a Bilayered Scaffold for Skin Tissue Engineering. *MRS Advances*, **2019**, 4, 1215-1221	0.7	
131	Isolation and mass spectrometry based hydroxyproline mapping of type II collagen derived from ear cartilage. *Communications Biology*, **2019**, 2, 146	6.7	6
130	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	8.3	7
129	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	7
128	Biocompatible carbon dots derived from κ-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	7.9	43
127	Hierarchical surface morphology on Ti6Al4V via patterning and hydrothermal treatment towards improving cellular response. *Applied Surface Science*, **2019**, 478, 806-817	6.7	18
126	Doping of carbon nanodots for saving cells from silver nanotoxicity: A study on recovering osteogenic differentiation potential. *Toxicology in Vitro*, **2019**, 57, 81-95	3.6	3
125	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	5.2	10
124	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	5.5	7
123	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	9.3	15
122	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	2.4	3
121	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	8.3	26
120	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	4.4	47
119	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	6.7	42
118	Synthesis of a novel copolymer using glycogen and poly(lactide) as a carrier of dual drugs—ornidazole and ofloxacin. *Journal of Polymer Science Part A*, **2019**, 57, 1697-1703	2.5	1
117	Reverse Engineering Approach for Customized Dental and Maxillofacial Implants of Alumina Fibre Reinforced Composite. *Materials Today: Proceedings*, **2019**, 11, 753-760	1.4	1
116	Anisotropy Properties of Tissues: A Basis for Fabrication of Biomimetic Anisotropic Scaffolds for Tissue Engineering. *Journal of Bionic Engineering*, **2019**, 16, 842-868	2.7	24

115	Laser Patterned ZNO Substituted Calcium Phosphate Scaffolds via Viscous Polymer Processing for Bone Graft. *Materials Today: Proceedings*, **2019**, 11, 849-858	1.4	
114	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	8.3	7
113	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	5.5	20
112	Doping of Carbon Quantum Dots (CDs) in Calcium Phosphate Nanorods for Inducing Ectopic Chondrogenesis via Activation of the HIF-1/SOX-9 Pathway. *ACS Omega*, **2019**, 4, 374-386	3.9	4
111	Morphology-induced physico-mechanical and biological characteristics of TPU-PDMS blend scaffolds for skin tissue engineering applications. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 1634-1644	3.5	7
110	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	8.3	20
109	Biopolymeric nanogel derived from functionalized glycogen towards targeted delivery of 5-fluorouracil. *Polymer*, **2018**, 140, 122-130	3.9	19
108	Identification and characterization of bioactive phenolic constituents, anti-proliferative, and anti-angiogenic activity of stem extracts of. *Journal of Food Science and Technology*, **2018**, 55, 1675-1684	3.3	15
107	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	7.9	32
106	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	6.7	55
105	Bioimpedimetric analysis in conjunction with growth dynamics to differentiate aggressiveness of cancer cells. *Scientific Reports*, **2018**, 8, 783	4.9	18
104	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	9.5	37
103	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	7.3	31
102	Hybrid electrospun fibers based on TPU-PDMS and spherical nanohydroxyapatite for bone tissue engineering. *Materials Today Communications*, **2018**, 16, 264-273	2.5	10
101	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UV-active marker and fluorescent polymer composite. *Luminescence*, **2018**, 33, 1136-1145	2.5	35
100	Multi-nucleated cells use ROS to induce breast cancer chemo-resistance in vitro and in vivo. *Oncogene*, **2018**, 37, 4546-4561	9.2	40
99	Core-Shell Nanofibrous Scaffold Based on Polycaprolactone-Silk Fibroin Emulsion Electrospinning for Tissue Engineering Applications. *Bioengineering*, **2018**, 5,	5.3	34
98	Dough Extrusion Forming of Titanium Alloys Green Body Characteristics, Microstructure and Mechanical Properties. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2018**, 140,	3.3	3

97	Single-pot biofabrication of living fibers for tissue engineering applications. *Journal of Materials Research*, **2018**, 33, 2019-2028	2.5	1
96	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	8.3	40
95	Mechanically robust dual responsive water dispersible-graphene based conductive elastomeric hydrogel for tunable pulsatile drug release. *Ultrasonics Sonochemistry*, **2018**, 42, 212-227	8.9	58
94	Biocompatible, stimuli-responsive hydrogel of chemically crosslinked -cyclodextrin as amoxicillin carrier. *Journal of Applied Polymer Science*, **2018**, 135, 45939	2.9	18
93	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	4.1	26
92	Laser surface remelting of Ti and its alloys for improving surface biocompatibility of orthopaedic implants. *Materials Technology*, **2018**, 33, 106-118	2.1	13
91	Polycaprolactone nanofibers functionalized with placental derived extracellular matrix for stimulating wound healing activity. *Journal of Materials Chemistry B*, **2018**, 6, 6767-6780	7.3	28
90	Synthesis of RAFT-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	2.5	12
89	Surface Modification of Eggshell Membrane with Electrospun Chitosan/Polycaprolactone Nanofibers for Enhanced Dermal Wound Healing.. *ACS Applied Bio Materials*, **2018**, 1, 985-998	4.1	30
88	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	3.4	61
87	Coagulant assisted foaming 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	5.3	16
86	Biocompatible nanogel derived from functionalized dextrin for targeted delivery of doxorubicin hydrochloride to MG 63 cancer cells. *Carbohydrate Polymers*, **2017**, 171, 27-38	10.3	31
85	Osseointegration assessment of extrusion printed Ti6Al4V scaffold towards accelerated skeletal defect healing via tissue in-growth. *Bioprinting*, **2017**, 6, 8-17	7	17
84	Nanocomposite hydrogel derived from poly (methacrylic acid)/carboxymethyl cellulose/AuNPs: A potential transdermal drugs carrier. *Polymer*, **2017**, 120, 9-19	3.9	22
83	Radiopaque Hemocompatible Ruminant-Sourced Gut Material with Antimicrobial Physiognomies for Biomedical Applications in Diabetics. *ACS Omega*, **2017**, 2, 755-764	3.9	3
82	Onion derived carbon nanodots for live cell imaging and accelerated skin wound healing. *Journal of Materials Chemistry B*, **2017**, 5, 6579-6592	7.3	60
81	Bilayered nanofibrous 3D hierarchy as skin rudiment by emulsion electrospinning for burn wound management. *Biomaterials Science*, **2017**, 5, 1786-1799	7.4	46
80	A reductionist approach to extract robust molecular markers from microarray data series - Isolating markers to track osseointegration. *Journal of Biomedical Informatics*, **2017**, 68, 104-111	10.2	4

79	Structurally Tuned Antimicrobial Mesoporous Hydroxyapatite Nanorods by Cyclic Oligosaccharides Regulation To Release a Drug for Osteomyelitis. *Crystal Growth and Design*, **2017**, 17, 433-445	3.5	9
78	Nano-/Microfibrous Cotton-Wool-Like 3D Scaffold with Core-Shell Architecture by Emulsion Electrospinning for Skin Tissue Regeneration. *ACS Biomaterials Science and Engineering*, **2017**, 3, 3563-3573	5.5	38
77	In Situ Silver Nanowire Deposited Cross-Linked Carboxymethyl Cellulose: A Potential Transdermal Anticancer Drug Carrier. *ACS Applied Materials & Interfaces*, **2017**, 9, 36583-36595	9.5	48
76	Influence of Porosity and Pore-Size Distribution in TiAl V Foam on Physicomechanical Properties, Osteogenesis, and Quantitative Validation of Bone Ingrowth by Micro-Computed Tomography. *ACS Applied Materials & Interfaces*, **2017**, 9, 39235-39248	9.5	59
75	Biopolymers Modification and Their Utilization in Biomimetic Composites for Osteochondral Tissue Engineering **2017**, 253-285		0
74	MWCNT reinforced bone like calcium phosphate–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	4.4	25
73	Accelerated healing of full thickness dermal wounds by macroporous waterborne polyurethane-chitosan hydrogel scaffolds. *Materials Science and Engineering C*, **2017**, 81, 133-143	8.3	55
72	Calcium phosphate flowers. *Materials Today*, **2017**, 20, 657-658	21.8	1
71	Effect of Vitamin E and a Long-Chain Alcohol -Octanol on the Carbohydrate-Based Nonionic Amphiphile Sucrose Monolaurate-Formulation of Newly Developed Niosomes and Application in Cell Imaging. *ACS Omega*, **2017**, 2, 7637-7646	3.9	5
70	Carbon nanodot impregnated fluorescent nanofibers for in vivo monitoring and accelerating full-thickness wound healing. *Journal of Materials Chemistry B*, **2017**, 5, 6645-6656	7.3	16
69	Mycobacterial heat shock protein 65 mediated metabolic shift in decidualization of human endometrial stromal cells. *Scientific Reports*, **2017**, 7, 3942	4.9	2
68	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	5.5	25
67	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	8.3	15
66	Understanding and tuning of polymer surfaces for dialysis applications. *Polymers for Advanced Technologies*, **2017**, 28, 174-187	3.2	4
65	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	4.9	31
64	Biocompatible amphiphilic microgel derived from dextrin and poly(methyl methacrylate) for dual drugs carrier. *Polymer*, **2016**, 107, 282-291	3.9	9
63	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	3.7	14
62	In Situ Iodination Cross-Linking of Silk for Radio-Opaque Antimicrobial Surgical Sutures. *ACS Biomaterials Science and Engineering*, **2016**, 2, 188-196	5.5	12

61	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	7.3	29
60	Dextrin and poly(lactide)-based biocompatible and biodegradable nanogel for cancer targeted delivery of doxorubicin hydrochloride. *Polymer Chemistry*, **2016**, 7, 2965-2975	4.9	41
59	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, 5941-60	9.5	24
58	A Simple Approach for an Eggshell-Based 3D-Printed Osteoinductive Multiphasic Calcium Phosphate Scaffold. *ACS Applied Materials & Interfaces*, **2016**, 8, 11910-24	9.5	41
57	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	3.7	46
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, 4086-100	9.5	30
55	One pot synthesis of intriguing fluorescent carbon dots for sensing and live cell imaging. *Talanta*, **2016**, 150, 253-64	6.2	53
54	Inhibition of fibrillation of human serum albumin through interaction with chitosan-based biocompatible silver nanoparticles. *RSC Advances*, **2016**, 6, 43104-43115	3.7	26
53	Accelerating full thickness wound healing using collagen sponge of mrigal fish (Cirrhinus cirrhosus) scale origin. *International Journal of Biological Macromolecules*, **2016**, 93, 1507-1518	7.9	33
52	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, 14338-51	9.5	92
51	Microfabrication of green ceramics: Contact vs. non-contact machining. *Journal of the European Ceramic Society*, **2015**, 35, 3909-3916	6	21
50	Microwave assisted rapid synthesis of N-methylene phosphonic chitosan via Mannich-type reaction. *Carbohydrate Polymers*, **2015**, 133, 345-52	10.3	20
49	Organic solvent-free low temperature method of preparation for self assembled amphiphilic poly(?-caprolactone)-poly(ethylene glycol) block copolymer based nanocarriers for protein delivery. *Colloids and Surfaces B: Biointerfaces*, **2015**, 135, 510-517	6	28
48	In vitro cytocompatibility and blood compatibility of polysulfone blend, surface-modified polysulfone and polyacrylonitrile membranes for hemodialysis. *RSC Advances*, **2015**, 5, 7023-7034	3.7	34
47	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	5.5	13
46	Covalent cross-links in polyampholytic chitosan fibers enhances bone regeneration in a rabbit model. *Colloids and Surfaces B: Biointerfaces*, **2015**, 125, 160-9	6	29
45	Polymer Modifications and Recent Technological Advances toward Live Cell Encapsulation and Delivery **2015**, 194-223		1
44	Development and application of a nanocomposite derived from crosslinked HPMC and Au nanoparticles for colon targeted drug delivery. *RSC Advances*, **2015**, 5, 27481-27490	3.7	24

43	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, 4791-803	9.5	89
42	2,5-Dimethoxy 2,5-dihydrofuran crosslinked chitosan fibers enhance bone regeneration in rabbit femur defects. *RSC Advances*, **2014**, 4, 19516-19524	3.7	23
41	Chitosan derivatives cross-linked with iodinated 2,5-dimethoxy-2,5-dihydrofuran for non-invasive imaging. *ACS Applied Materials & Interfaces*, **2014**, 6, 17926-36	9.5	17
40	Deposition of zinc oxide nanomaterial on different substrates for useful applications. *CrystEngComm*, **2014**, 16, 4322	3.3	9
39	Citrate cross-linked gels with strain reversibility and viscoelastic behavior accelerate healing of osteochondral defects in a rabbit model. *Langmuir*, **2014**, 30, 8442-51	4	19
38	The heat-chill method for preparation of self-assembled amphiphilic poly(Ɛcaprolactone)-poly(ethylene glycol) block copolymer based micellar nanoparticles for drug delivery. *Soft Matter*, **2014**, 10, 2150-9	3.6	21
37	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	7.3	85
36	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, 2659-67	4.5	11
35	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	10
34	Thermoresponsive biodegradable PEG-PCL-PEG based injectable hydrogel for pulsatile insulin delivery. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 1500-9	5.4	50
33	SINGLE STEP SINTERED CALCIUM PHOSPHATE FIBERS FROM AVIAN EGG SHELL. *International Journal of Modern Physics Conference Series*, **2013**, 22, 305-312	0.7	2
32	Poly(maleic acid) □A novel dispersant for aqueous alumina slurryPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2013**, 1, 184-190	2.4	19
31	Osteoblastic cellular responses on ionically crosslinked chitosan-tripolyphosphate fibrous 3-D mesh scaffolds. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 2526-37	5.4	18
30	Dextrin cross linked with poly(HEMA): a novel hydrogel for colon specific delivery of ornidazole. *RSC Advances*, **2013**, 3, 25340	3.7	92
29	Enhanced redifferentiation of chondrocytes on microperiodic silk/gelatin scaffolds: toward tailor-made tissue engineering. *Biomacromolecules*, **2013**, 14, 311-21	6.9	89
28	Critical issues in near net shape forming via green machining of ceramics: A case study of alumina dental crownPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2013**, 1, 274-281	2.4	23
27	Net shape forming of green alumina via CNC machining using diamond embedded tool. *Ceramics International*, **2013**, 39, 8985-8993	5.1	15
26	Physico-chemical/biological properties of tripolyphosphate cross-linked chitosan based nanofibers. *Materials Science and Engineering C*, **2013**, 33, 1446-54	8.3	33

25	Chitosan-collagen scaffolds with nano/microfibrous architecture for skin tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 3482-92	5.4	74
24	Processing and Industrial Aspects of Fish-scale Collagen: A Biomaterials Perspective **2013**, 589-629		3
23	In vitro evaluation of osteoconductivity and cellular response of zirconia and alumina based ceramics. *Materials Science and Engineering C*, **2013**, 33, 3923-30	8.3	18
22	In vitro ALP and osteocalcin gene expression analysis and in vivo biocompatibility of N-methylene phosphonic chitosan nanofibers for bone regeneration. *Journal of Biomedical Nanotechnology*, **2013**, 9, 870-9	4	30
21	Collagen scaffolds derived from fresh water fish origin and their biocompatibility. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 1068-79	5.4	73
20	Development of chitosan-tripolyphosphate non-woven fibrous scaffolds for tissue engineering application. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 1085-96	4.5	22
19	Alumina Fiber with Platelet Morphology Through Wet Spinning. *Journal of the American Ceramic Society*, **2012**, 95, 1234-1240	3.8	14
18	Hydrogels and electrospun nanofibrous scaffolds of N-methylene phosphonic chitosan as bioinspired osteoconductive materials for bone grafting. *Carbohydrate Polymers*, **2012**, 87, 1354-1362	10.3	49
17	Electrospun nanofibers of a phosphorylated polymer--a bioinspired approach for bone graft applications. *Colloids and Surfaces B: Biointerfaces*, **2012**, 94, 177-83	6	30
16	Collagen intermingled chitosan-tripolyphosphate nano/micro fibrous scaffolds for tissue-engineering application. *Journal of Biomaterials Science, Polymer Edition*, **2012**, 23, 1923-38	3.5	14
15	Enzymatically crosslinked carboxymethyl chitosan/gelatin/nano-hydroxyapatite injectable gels for in situ bone tissue engineering application. *Materials Science and Engineering C*, **2011**, 31, 1295-1304	8.3	79
14	Development of chitosan-tripolyphosphate fibers through pH dependent ionotropic gelation. *Carbohydrate Research*, **2011**, 346, 2582-8	2.9	57
13	Development of ultrafine chitosan fibers through modified wetspinning technique. *Journal of Applied Polymer Science*, **2011**, 121, 1550-1557	2.9	9
12	Development of chitosan-tripolyphosphate fiber for biomedical application **2010**,		3
11	Isolation and characterization of fish scale collagen of higher thermal stability. *Bioresource Technology*, **2010**, 101, 3737-42	11	257
10	Influence of Slurry Characteristics on Porosity and Mechanical Properties of Alumina Foams. *International Journal of Applied Ceramic Technology*, **2006**, 3, 382-392	2	36
9	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	28
8	Synthesis of Nanocrystalline Alumina Using Egg White. *Journal of the American Ceramic Society*, **2005**, 88, 2003-2004	3.8	26

7	Green Machining to Net Shape Alumina Ceramics Prepared Using Different Processing Routes. *International Journal of Applied Ceramic Technology*, **2005**, 2, 262-270	2	26
6	Simplified Aqueous Gelcasting of Silicon Carbide Ceramics. *Transactions of the Indian Ceramic Society*, **2004**, 63, 199-202	1.8	3
5	A Simple Direct Casting Route to Ceramic Foams. *Journal of the American Ceramic Society*, **2003**, 86, 1645-1650	3.8	124
4	Egg White as an Environmentally Friendly Low-Cost Binder for Gelcasting of Ceramics. *Journal of the American Ceramic Society*, **2001**, 84, 3048-3050	3.8	76
3	A vascularized bone-on-a-chip model development via exploring mechanical stimulation for evaluation of fracture healing therapeutics. *In Vitro Models*,1		0
2	Net shape forming of Ti6Al4V implants via green machining. *Journal of Materials Research*,1	2.5	
1	Amino Acid Inspired Alginate-Based pH Sensitive Polymeric Micelles via Reversible Addition Fragmentation Chain Transfer Polymerization. *ACS Applied Polymer Materials*,	4.3	1