Cheol Sang Kim

List of Publications by Year in Descending Order

240 papers	6,863 citations	47 h-index	69 g-index
250 ext. papers	8,167 ext. citations	6 avg, IF	6.47 L-index

#	Paper	IF	Citations
240	Silver nanoparticles decorated reduced graphene oxide: Eco-friendly synthesis, characterization, biological activities and embryo toxicity studies.. *Environmental Research*, **2022**, 210, 112864	7.9	1
239	A bimetallic load-bearing bioceramics of TiO @ ZrO integrated polycaprolactone fibrous tissue construct exhibits anti bactericidal effect and induces osteogenesis in MC3T3-E1 cells. *Materials Science and Engineering C*, **2021**, 131, 112501	8.3	1
238	Development of electrospun core-shell polymeric mat using poly (ethyl-2) cyanoacrylate/polyurethane to attenuate biological adhesion on polymeric mesh implants. *Materials Science and Engineering C*, **2021**, 122, 111930	8.3	
237	Phenol-Boronic surface functionalization of gold nanoparticles; to induce ROS damage while inhibiting the survival mechanisms of cancer cells. *International Journal of Pharmaceutics*, **2021**, 596, 120267	6.5	3
236	Drug free anti-cell proliferative and anti-platelet adhesion coating for vascular stents via polymeric electrospun fibers. *Materials Letters*, **2021**, 291, 129545	3.3	2
235	Engineered cellular microenvironments from functionalized multiwalled carbon nanotubes integrating Zein/Chitosan @Polyurethane for bone cell regeneration. *Carbohydrate Polymers*, **2021**, 251, 117035	10.3	12
234	Regenerated cellulose nanofiber reinforced chitosan hydrogel scaffolds for bone tissue engineering. *Carbohydrate Polymers*, **2021**, 251, 117023	10.3	56
233	Simple Colorimetric and Fluorescence Chemosensing Probe for Selective Detection of Sn Ions in an Aqueous Solution: Evaluation of the Novel Sensing Mechanism and Its Bioimaging Applications. *Analytical Chemistry*, **2021**, 93, 801-811	7.8	36
232	Simple conversion of 3D electrospun nanofibrous cellulose acetate into a mechanically robust nanocomposite cellulose/calcium scaffold. *Carbohydrate Polymers*, **2021**, 253, 117191	10.3	7
231	HSPA1A-siRNA nucleated gold nanorods for stimulated photothermal therapy through strategic heat shock to HSP70. *Materials Chemistry Frontiers*, **2021**, 5, 6461-6470	7.8	2
230	-substituted sulfonic acid-doped protonated emeraldine salt nanobuds: a potent neural interface targeting PC12 cell interactions and promotes neuronal cell differentiation. *Biomaterials Science*, **2021**, 9, 1691-1704	7.4	6
229	Remotely controlled self-powering electrical stimulators for osteogenic differentiation using bone inspired bioactive piezoelectric whitlockite nanoparticles. *Nano Energy*, **2021**, 85, 105901	17.1	9
228	Engineering 2D approaches fibrous platform incorporating turmeric and polyaniline nanoparticles to predict the expression of Ⅲ-Tubulin and TREK-1 through qRT-PCR to detect neuronal differentiation of PC12 cells. *Materials Science and Engineering C*, **2021**, 127, 112176	8.3	2
227	Polyvinylidene fluoride/silk fibroin-based bio-piezoelectric nanofibrous scaffolds for biomedical application. *Journal of Tissue Engineering and Regenerative Medicine*, **2021**, 15, 869-877	4.4	1
226	Assembly of porous graphitic carbon nitride nanosheets into electrospun polycaprolactone nanofibers for bone tissue engineering. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 622, 126584	5.1	4
225	A dual-channel colorimetric and ratiometric fluorescence chemosensor for detection of Hg ion and its bioimaging applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 257, 119776	4.4	12
224	Biomimetic Cell-Substrate of Chitosan-Cross-linked Polyaniline Patterning on TiO Nanotubes Enables hBM-MSCs to Differentiate the Osteoblast Cell Type. *ACS Applied Materials & Interfaces*, **2021**, 13, 47100-47117	9.5	2

223	In-situ cellulose-framework templates mediated monodispersed silver nanoparticles via facile UV-light photocatalytic activity for anti-microbial functionalization. *Carbohydrate Polymers*, **2021**, 269, 118255	10.3	5
222	A multifunctional, one-step gas foaming strategy for antimicrobial silver nanoparticle-decorated 3D cellulose nanofiber scaffolds. *Carbohydrate Polymers*, **2021**, 273, 118603	10.3	6
221	Antimicrobial Electrospun Nanofibrous Mat Based on Essential Oils for Biomedical Applications. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 5376-5380	1.3	3
220	Development of In-Situ Poled Nanofiber Based Flexible Piezoelectric Nanogenerators for Self-Powered Motion Monitoring. *Applied Sciences (Switzerland)*, **2020**, 10, 3493	2.6	6
219	Single- and double-walled boron nitride nanotubes: Controlled synthesis and application for water purification. *Scientific Reports*, **2020**, 10, 7416	4.9	14
218	In-situ polymerized polypyrrole nanoparticles immobilized poly(ε-caprolactone) electrospun conductive scaffolds for bone tissue engineering. *Materials Science and Engineering C*, **2020**, 114, 111056	8.3	30
217	Polyaniline-coated titanium oxide nanoparticles and simvastatin-loaded poly(ε-caprolactone) composite nanofibers scaffold for bone tissue regeneration application. *Colloids and Surfaces B: Biointerfaces*, **2020**, 192, 111007	6	24
216	Albumin-induced exfoliation of molybdenum disulfide nanosheets incorporated polycaprolactone/zein composite nanofibers for bone tissue regeneration. *Materials Science and Engineering C*, **2020**, 116, 111162	8.3	12
215	In Situ Biological Transmutation of Catalytic Lactic Acid Waste into Calcium Lactate in a Readily Processable Three-Dimensional Fibrillar Structure for Bone Tissue Engineering. *ACS Applied Materials & Interfaces*, **2020**, 12, 18197-18210	9.5	13
214	Covalent Surface Functionalization of Bovine Serum Albumin to Magnesium Surface to Provide Robust Corrosion Inhibition and Enhance In Vitro Osteo-Inductivity. *Polymers*, **2020**, 12,	4.5	5
213	Nanographene enfolded AuNPs sophisticatedly synchronized polycaprolactone based electrospun nanofibre scaffold for peripheral nerve regeneration. *Materials Science and Engineering C*, **2020**, 116, 111213	8.3	13
212	The controlled design of electrospun PCL/silk/quercetin fibrous tubular scaffold using a modified wound coil collector and L-shaped ground design for neural repair. *Materials Science and Engineering C*, **2020**, 111, 110776	8.3	14
211	Fabrication of Antimicrobial Nanofiber Air Filter Using Activated Carbon and Cinnamon Essential Oil. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4376-4380	1.3	15
210	One-pot solvent-free transformation of natural triglycerides to ester and amide derivatives over CaO@KC nanostructured catalysts. *International Journal of Energy Research*, **2020**, 44, 4568-4585	4.5	2
209	Strategic harmonization of silica shell stabilization with Pt embedding on AuNPs for efficient artificial photosynthesis. *Journal of Materials Chemistry A*, **2020**, 8, 5734-5743	13	6
208	Fabrication of Antibacterial Nanofibrous Membrane Infused with Essential Oil Extracted from Tea Tree for Packaging Applications. *Polymers*, **2020**, 12,	4.5	5
207	Fabrication of 3D Electrospun Polycaprolactone Sponge Incorporated with Pt@AuNPs for Biomedical Applications. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3989-3993	1.3	1
206	Quartz Crystal Nanobalance-Dissipation Based Simulation Model as Pre-Clinical Modality for Blood Coagulation Behavior for Evaluation of the Risk of Thrombosis. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 5322-5328	1.3	

205	Engineered Celery-Structured Electrospun Fibers Surface and Its Initial Cell Attachment Ability Effect. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4336-4339	1.3	
204	Fabrication of Three-Dimensional Alginate Porous Scaffold Incorporated with Decellularized Cornu Cervi Pantotrichum Particle for Bone Tissue Engineering. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 5356-5359	1.3	
203	Synthesis of polypyrrole nanorods via sacrificial removal of aluminum oxide nanopore template: A study on cell viability, electrical stimulation and neuronal differentiation of PC12 cells. *Materials Science and Engineering C*, **2020**, 107, 110325	8.3	11
202	Synthesis, characterizations, and biocompatibility evaluation of polycaprolactone/MXene electrospun fibers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 586, 124282	5.1	19
201	Development of Y-shaped small diameter artificial blood vessel with controlled topography via a modified electrospinning method. *Materials Letters*, **2020**, 264, 127113	3.3	4
200	Merging 3D printing with electrospun biodegradable small-caliber vascular grafts immobilized with VEGF. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2020**, 30, 102306	6	5
199	Solvent-free K/CaO/Ca(OH)2 mixed-phase nanocatalytic single-step methanolysis, ethanolysis and aminolysis of Pongamia pinnata triglycerides. *Sustainable Chemistry and Pharmacy*, **2020**, 18, 100317	3.9	2
198	Fabrication of Bioabsorbable Polylactic-Co-Glycolic Acid/Polycaprolactone Nanofiber Coated Stent and Investigation of Biodegradability in Porcine Animal Model. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 5360-5364	1.3	2
197	Poly(Caprolactone)/Poly(Glycerol Sebacate) Composite Nanofibers Incorporating Hydroxyapatite Nanoparticles and Simvastatin for Bone Tissue Regeneration and Drug Delivery Applications. *Polymers*, **2020**, 12,	4.5	12
196	Synthesis of Uprightly Grown Hierarchical Multi-Metallic Nano-Needles on Electrospun Fiber Surface. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4432-4435	1.3	1
195	Integrated design and fabrication strategies for biomechanically and biologically functional PLA/TCP nanofiber reinforced GelMA scaffold for tissue engineering applications. *International Journal of Biological Macromolecules*, **2020**, 164, 976-985	7.9	9
194	Sustainable heterogeneously catalyzed single-step and two-step amide derivatives of non-edible natural triglycerides as dual-functional diesel fuel additives. *Industrial Crops and Products*, **2020**, 158, 113001	5.9	1
193	Development of Highly Expandable Wrinkled Nanofiber Mat Using Metal Bundle Collector. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4227-4230	1.3	
192	Considerations in the Development of Small-Diameter Vascular Graft as an Alternative for Bypass and Reconstructive Surgeries: A Review. *Cardiovascular Engineering and Technology*, **2020**, 11, 495-521	2.2	25
191	Tauroursodeoxycholic acid induces angiogenic activity in endothelial cells and accelerates bone regeneration. *Bone*, **2020**, 130, 115073	4.7	3
190	Regulating Electrical Cue and Mechanotransduction in Topological Gradient Structure Modulated Piezoelectric Scaffolds to Predict Neural Cell Response. *Advanced Functional Materials*, **2020**, 30, 1907330	15.6	16
189	Biocompatible superparamagnetic sub-micron vaterite particles for thermo-chemotherapy: From controlled design to in vitro anticancer synergism. *Materials Science and Engineering C*, **2020**, 106, 110226	8.3	18
188	Analysis of Drug Release Behavior Utilizing the Swelling Characteristics of Cellulosic Nanofibers. *Polymers*, **2019**, 11,	4.5	13

187	Harnessing the Topography of 3D Spongy-Like Electrospun Bundled Fibrous Scaffold via a Sharply Inclined Array Collector. *Polymers*, **2019**, 11,	4.5	3
186	Drug release and kinetic models of anticancer drug (BTZ) from a pH-responsive alginate polydopamine hydrogel: Towards cancer chemotherapy. *International Journal of Biological Macromolecules*, **2019**, 141, 388-400	7.9	42
185	Synthesis and characterization of gold/silica hybrid nanoparticles incorporated gelatin methacrylate conductive hydrogels for H9C2 cardiac cell compatibility study. *Composites Part B: Engineering*, **2019**, 177, 107415	10	31
184	Exfoliated nanosheets of Co3O4 webbed with polyaniline nanofibers: A novel composite electrode material for enzymeless glucose sensing application. *Journal of Industrial and Engineering Chemistry* , **2019**, 73, 106-117	6.3	24
183	Synthesis of polythiophene nanoparticles by surfactant-free chemical oxidative polymerization method: Characterization, in vitro biomineralization, and cytotoxicity evaluation. *Journal of Industrial and Engineering Chemistry*, **2019**, 77, 243-252	6.3	16
182	A conducting neural interface of polyurethane/silk-functionalized multiwall carbon nanotubes with enhanced mechanical strength for neuroregeneration. *Materials Science and Engineering C*, **2019**, 102, 511-523	8.3	44
181	Thromboresistant semi-IPN hydrogel coating: Towards improvement of the hemocompatibility/biocompatibility of metallic stent implants. *Materials Science and Engineering C*, **2019**, 99, 1274-1288	8.3	15
180	On-demand drug release from tailored blended electrospun nanofibers. *Journal of Drug Delivery Science and Technology*, **2019**, 52, 8-14	4.5	17
179	Biomedical Grade Stainless Steel Coating of Polycaffeic Acid via Combined Oxidative and Ultraviolet Light-Assisted Polymerization Process for Bioactive Implant Application. *Polymers*, **2019**, 11,	4.5	6
178	QCN-Based Analysis for Predicting the Quality of Resulting Electrospun Nanofiber: Effect of Real-Time Transient Rheological Properties of Precursor Solution on Electrospinning. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 2399-2403	1.3	
177	Simultaneous regeneration of calcium lactate and cellulose into PCL nanofiber for biomedical application. *Carbohydrate Polymers*, **2019**, 212, 21-29	10.3	22
176	Composite PCL/HA/simvastatin electrospun nanofiber coating on biodegradable Mg alloy for orthopedic implant application **2019**, 16, 477-489		41
175	UV Light Assisted Coating Method of Polyphenol Caffeic Acid and Mediated Immobilization of Metallic Silver Particles for Antibacterial Implant Surface Modification. *Polymers*, **2019**, 11,	4.5	11
174	A novel morphology of 3D graphene hydrogel nanotubes for high-performance nonenzymatic hydrogen peroxide sensor. *Journal of Industrial and Engineering Chemistry*, **2019**, 79, 245-254	6.3	2
173	Bi-layered Nanofibers Membrane Loaded with Titanium Oxide and Tetracycline as Controlled Drug Delivery System for Wound Dressing Applications. *Polymers*, **2019**, 11,	4.5	18
172	Dual growth mode of boron nitride nanotubes in high temperature pressure laser ablation. *Scientific Reports*, **2019**, 9, 15674	4.9	13
171	One-Pot Solvent-Free Synthesis of N,N-Bis(2-Hydroxyethyl) Alkylamide from Triglycerides Using Zinc-Doped Calcium Oxide Nanospheroids as a Heterogeneous Catalyst. *Catalysts*, **2019**, 9, 774	4	3
170	Polydopamine-based Implantable Multifunctional Nanocarpet for Highly Efficient Photothermal-chemo Therapy. *Scientific Reports*, **2019**, 9, 2943	4.9	30

169	Incorporating zirconia nanoparticles into activated carbon as electrode material for capacitive deionization. *Journal of Alloys and Compounds*, **2019**, 772, 1079-1087	5.7	26
168	Functional composite nanofibers loaded with TCP and SIM as a control drug delivery system. *Materials Letters*, **2019**, 240, 25-29	3.3	9
167	Synthesis and characterizations of activated carbon from Wisteria sinensis seeds biomass for energy storage applications. *Journal of Industrial and Engineering Chemistry*, **2019**, 72, 265-272	6.3	31
166	The impact of humidity on the generation and morphology of the 3D cotton-like nanofibrous piezoelectric scaffold via an electrospinning method. *Materials Letters*, **2019**, 236, 510-513	3.3	9
165	Conjugated polyaniline-assisted flexible titania nanotubes with controlled surface morphology as regenerative medicine in nerve cell growth. *Chemical Engineering Journal*, **2019**, 360, 701-713	14.7	20
164	Strategic design of a Mussel-inspired in situ reduced Ag/Au-Nanoparticle Coated Magnesium Alloy for enhanced viability, antibacterial property and decelerated corrosion rates for degradable implant Applications. *Scientific Reports*, **2019**, 9, 117	4.9	16
163	Structural Packaging Technique Using Biocompatible Nanofiber with Essential Oil to Prolong the Shelf-Life of Fruit. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 2228-2231	1.3	10
162	Design of a modified electrospinning for the in-situ fabrication of 3D cotton-like collagen fiber bundle mimetic scaffold. *Materials Letters*, **2019**, 236, 521-525	3.3	11
161	Fabrication of a Micro/Nano-Net Membrane Using Cellulose Nanocrystals Derived from Seaweed. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 2232-2235	1.3	3
160	Investigation of Composite Nano Air Filter for Improving Antimicrobial Activity and Reducing VOCs Using a High Speed Upward Electrospinning System. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 697-700	1.3	5
159	Sacrificial template-based synthetic approach of polypyrrole hollow fibers for photothermal therapy. *Journal of Colloid and Interface Science*, **2019**, 534, 447-458	9.3	25
158	Design and development of an electro magnetic manipulation system to actuate bioengineered magnetic micro/nanoparticles. *Journal of Mechanical Science and Technology*, **2018**, 32, 1693-1703	1.6	2
157	Strategic Design and Fabrication of Biomimetic 3D Scaffolds: Unique Architectures of Extracellular Matrices for Enhanced Adipogenesis and Soft Tissue Reconstruction. *Scientific Reports*, **2018**, 8, 5696	4.9	8
156	Electromagnetic manipulation enabled calcium alginate Janus microsphere for targeted delivery of mesenchymal stem cells. *International Journal of Biological Macromolecules*, **2018**, 110, 465-471	7.9	13
155	Layer - Structured partially reduced graphene oxide sheathed mesoporous MoS particles for energy storage applications. *Journal of Colloid and Interface Science*, **2018**, 518, 234-241	9.3	17
154	Facile fabrication of spongy nanofibrous scaffold for tissue engineering applications. *Materials Letters*, **2018**, 219, 119-122	3.3	18
153	Synthesis of three-dimensional mesoporous Cu-Al layered double hydroxide/g-CN nanocomposites on Ni-foam for enhanced supercapacitors with excellent long-term cycling stability. *Dalton Transactions*, **2018**, 47, 4455-4466	4.3	35
152	Multifaceted Implantable Anticancer Device for Potential Postsurgical Breast Cancer Treatment: A Single Platform for Synergistic Inhibition of Local Regional Breast Cancer Recurrence, Surveillance, and Healthy Breast Reconstruction. *Advanced Functional Materials*, **2018**, 28, 1704793	15.6	23

151	Facile synthesis of TiO/ZrO nanofibers/nitrogen co-doped activated carbon to enhance the desalination and bacterial inactivation via capacitive deionization. *Scientific Reports*, **2018**, 8, 541	4.9	43
150	A Multifunctional Zinc Oxide/Poly(Lactic Acid) Nanocomposite Layer Coated on Magnesium Alloys for Controlled Degradation and Antibacterial Function. *ACS Biomaterials Science and Engineering*, **2018**, 4, 2169-2180	5.5	48
149	Electrodeless coating polypyrrole on chitosan grafted polyurethane with functionalized multiwall carbon nanotubes electrospun scaffold for nerve tissue engineering. *Carbon*, **2018**, 136, 430-443	10.4	70
148	Lactic acid assisted fabrication of bioactive three-dimensional PLLA/□TCP fibrous scaffold for biomedical application. *Chemical Engineering Journal*, **2018**, 347, 771-781	14.7	36
147	Gold nanoparticles-platinum nanodots-graphene interfaced spherical colloidal nanodendrites: Synthesis and studies for plasmonic multiple photo-system modality. *Journal of Industrial and Engineering Chemistry*, **2018**, 65, 244-253	6.3	2
146	Nanoscale Resolution 3D Printing with Pin-Modified Electrified Inkjets for Tailorable Nano/Macrohybrid Constructs for Tissue Engineering. *ACS Applied Materials & Interfaces*, **2018**, 10, 12390-12405	9.5	22
145	Nature derived scaffolds for tissue engineering applications: Design and fabrication of a composite scaffold incorporating chitosan-g-d,l-lactic acid and cellulose nanocrystals from Lactuca sativa L. cv green leaf. *International Journal of Biological Macromolecules*, **2018**, 110, 504-513	7.9	13
144	Incorporation of BMP-2 nanoparticles on the surface of a 3D-printed hydroxyapatite scaffold using an □polycaprolactone polymer emulsion coating method for bone tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2018**, 170, 421-429	6	55
143	Nano-Nets Covered Composite Nanofibers with Enhanced Biocompatibility and Mechanical Properties for Bone Tissue Engineering. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 529-537	1.3	14
142	A Review on Properties of Natural and Synthetic Based Electrospun Fibrous Materials for Bone Tissue Engineering. *Membranes*, **2018**, 8,	3.8	131
141	Microcylinder-laden gelatin-based bioink engineered for 3D bioprinting. *Materials Letters*, **2018**, 233, 24-27	3.3	7
140	A portable and computer-simulation analysis for the real-time measurement of the QCMD systems for the biomedical application. *Sensing and Bio-Sensing Research*, **2018**, 21, 75-81	3.3	4
139	Implantable chemothermal brachytherapy seeds: A synergistic approach to brachytherapy using polymeric dual drug delivery and hyperthermia for malignant solid tumor ablation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 129, 191-203	5.7	10
138	Harnessing nanotopography of PCL/collagen nanocomposite membrane and changes in cell morphology coordinated with wound healing activity. *Materials Science and Engineering C*, **2018**, 91, 824-837	8.3	28
137	Preliminary Study for Measurement of Shear Stress and Hemocompatibility Using Commercialized Lab on a Chip. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 1123-1126	1.3	
136	Development of Nanofiber Reinforced Double Layered Cabin Air Filter Using Novel Upward Mass Production Electrospinning Set Up. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 2132-2136	1.3	12
135	Polydopamine-assisted immobilization of hierarchical zinc oxide nanostructures on electrospun nanofibrous membrane for photocatalysis and antimicrobial activity. *Journal of Colloid and Interface Science*, **2018**, 513, 566-574	9.3	71
134	Impact of Ultrasmall Platinum Nanoparticle Coating on Different Morphologies of Gold Nanostructures for Multiple One-Pot Photocatalytic Environment Protection Reactions. *ACS Applied Materials & Interfaces*, **2018**, 10, 389-399	9.5	13

133	Bimetallic-graphene sandwiched core-satellite colloidal nanodendrites as an efficient visible-NIR-sun light active photo-system for carbon dioxide reduction. *Chemical Communications*, **2018**, 54, 1571-1574	5.8	5
132	Design of novel electrode for capacitive deionization using electrospun composite titania/zirconia nanofibers doped-activated carbon. *Materials Letters*, **2018**, 213, 62-66	3.3	22
131	Development of bioactive cellulose nanocrystals derived from dominant cellulose polymorphs I and II from Capsosiphon Fulvescens for biomedical applications. *International Journal of Biological Macromolecules*, **2018**, 110, 531-539	7.9	16
130	Hexa-functional tumour-seeking nano voyagers and annihilators for synergistic cancer theranostic applications. *Nanoscale*, **2018**, 10, 19568-19578	7.7	4
129	Harnessing Nanotopography of Electrospun Nanofibrous Nerve Guide Conduits (NGCs) for Neural Tissue Engineering. *Advances in Experimental Medicine and Biology*, **2018**, 1078, 395-408	3.6	7
128	Short duration cancer treatment: inspired by a fast bio-resorbable smart nano-fiber device containing NIR lethal polydopamine nanospheres for effective chemo-photothermal cancer therapy. *International Journal of Nanomedicine*, **2018**, 13, 6375-6390	7.3	13
127	Boron nitride nanotubes: synthesis and applications. *Nano Convergence*, **2018**, 5, 17	9.2	70
126	A controlled surface geometry of polyaniline doped titania nanotubes biointerface for accelerating MC3T3-E1 cells growth in bone tissue engineering. *Chemical Engineering Journal*, **2018**, 350, 57-68	14.7	27
125	pH/NIR-Responsive Polypyrrole-Functionalized Fibrous Localized Drug-Delivery Platform for Synergistic Cancer Therapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 20256-20270	9.5	51
124	Multifunctional Trimetallic Colloidal Plasmonic Nanohybrid: Highly Efficient Photocatalyst and Photothermal Agent. *Advanced Materials Interfaces*, **2018**, 5, 1800331	4.6	4
123	Robust Multimetallic Plasmonic Core–Satellite Nanodendrites: Highly Effective Visible-Light-Induced Colloidal CO2 Photoconversion System. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8604-8614	8.3	13
122	Formation of lipophilic drug-loaded human serum albumin nanofibers with the aid of glutathione. *Chemical Engineering Journal*, **2017**, 313, 753-758	14.7	10
121	Enhanced corrosion resistance and biocompatibility of AZ31 Mg alloy using PCL/ZnO NPs via electrospinning. *Applied Surface Science*, **2017**, 396, 249-258	6.7	67
120	Heterogeneous electrospun polycaprolactone/polyethylene glycol membranes with improved wettability, biocompatibility, and mineralization. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 520, 105-113	5.1	37
119	Fabrication and characterization of silver nanoparticle-incorporated bilayer electrospun–melt-blown micro/nanofibrous membrane. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2017**, 66, 514-520	3	11
118	A mussel inspired self-expandable tubular hydrogel with shape memory under NIR for potential biomedical applications. *Journal of Materials Chemistry B*, **2017**, 5, 5373-5379	7.3	20
117	In situ synthesis of cylindrical spongy polypyrrole doped protonated graphitic carbon nitride for cholesterol sensing application. *Biosensors and Bioelectronics*, **2017**, 94, 686-693	11.8	70
116	On-demand drug release and hyperthermia therapy applications of thermoresponsive poly-(NIPAAm-co-HMAAm)/polyurethane core-shell nanofiber mat on non-vascular nitinol stents. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 527-538	6	37

115	Design and Development of a Cylinder Type Electrospinning Device for the Mass Production of Nanofibers. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 3982-3986	1.3	1
114	Optimization of Electropolishing on NiTi Alloy Stents and Its Influence on Corrosion Behavior. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 2333-339	1.3	9
113	Fabrication of N-doped &SnO2-incorporated activated carbon to enhance desalination and bio-decontamination performance for capacitive deionization. *Journal of Alloys and Compounds*, **2017**, 729, 764-775	5.7	38
112	Functionalized Non-vascular Nitinol Stent via Electropolymerized Polydopamine Thin Film Coating Loaded with Bortezomib Adjunct to Hyperthermia Therapy. *Scientific Reports*, **2017**, 7, 9432	4.9	12
111	Bio-inspired hybrid scaffold of zinc oxide-functionalized multi-wall carbon nanotubes reinforced polyurethane nanofibers for bone tissue engineering. *Materials and Design*, **2017**, 133, 69-81	8.1	68
110	Globular Shaped Polypyrrole Doped Well-Dispersed Functionalized Multiwall Carbon Nanotubes/Nafion Composite for Enzymatic Glucose Biosensor Application. *Scientific Reports*, **2017**, 7, 16191	4.9	29
109	A unique scaffold for bone tissue engineering: An osteogenic combination of graphene oxide–hyaluronic acid–chitosan with simvastatin. *Journal of Industrial and Engineering Chemistry*, **2017**, 46, 182-191	6.3	74
108	In-situ synthesis of AgNPs in the natural/synthetic hybrid nanofibrous scaffolds: Fabrication, characterization and antimicrobial activities. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 65, 66-76	4.1	31
107	Real Time Monitoring of the Biocompatibility Behavior of Modified Titanium Oxide Surfaces Using Electrochemical Quartz Crystal Nanobalance (EQCN). *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 3975-3981	1.3	
106	In vitro degradation behavior and cytocompatibility of a bioceramic anodization films on the biodegradable magnesium alloy. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 488, 82-92	5.1	20
105	A Controlled Design of Aligned and Random Nanofibers for 3D Bi-functionalized Nerve Conduits Fabricated via a Novel Electrospinning Set-up. *Scientific Reports*, **2016**, 6, 23761	4.9	113
104	Multifunctional Nanocarpets for Cancer Theranostics: Remotely Controlled Graphene Nanoheaters for Thermo-Chemosensitisation and Magnetic Resonance Imaging. *Scientific Reports*, **2016**, 6, 20543	4.9	66
103	pH/NIR Light-Controlled Multidrug Release via a Mussel-Inspired Nanocomposite Hydrogel for Chemo-Photothermal Cancer Therapy. *Scientific Reports*, **2016**, 6, 33594	4.9	95
102	Electrospinning Directly Synthesized Porous TiO2 Nanofibers Modified by Graphitic Carbon Nitride Sheets for Enhanced Photocatalytic Degradation Activity under Solar Light Irradiation. *Langmuir*, **2016**, 32, 6163-75	4	56
101	Engineering a novel bilayer membrane for bone defects regeneration. *Materials Letters*, **2016**, 180, 268-272	3.3	7
100	Synthesis, characterization, organic compound degradation activity and antimicrobial performance of g-C3N4 sheets customized with metal nanoparticles-decorated TiO2 nanofibers. *RSC Advances*, **2016**, 6, 55079-55091	3.7	31
99	In-situ immobilization of silver nanoparticles on ZSM-5 type zeolite by catechol redox chemistry, a green catalyst for A3-coupling reaction. *Microporous and Mesoporous Materials*, **2016**, 225, 296-302	5.3	25
98	A novel in situ deposition of hydroxyapatite nanoplates using anodization/hydrothermal process onto magnesium alloy surface towards third generation biomaterials. *Materials Letters*, **2016**, 164, 144-147	3.3	24

97	In Situ Synthesis of Antimicrobial Silver Nanoparticles within Antifouling Zwitterionic Hydrogels by Catecholic Redox Chemistry for Wound Healing Application. *Biomacromolecules*, **2016**, 17, 1213-23	6.9	188
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