Jayakumar Rangasamy

List of Publications by Year
in descending order

259 papers	23,945 citations	7096 78 h-index	8630 146 g-index
302 all docs	302 docs citations	302 times ranked	23609 citing authors

#	Article	IF	Citations
1	Biomaterials based on chitin and chitosan in wound dressing applications. Biotechnology Advances, 2011, 29, 322-337.	11.7	1,572
2	Biomedical applications of chitin and chitosan based nanomaterialsâ€"A short review. Carbohydrate Polymers, 2010, 82, 227-232.	10.2	1,085
3	Novel chitin and chitosan nanofibers in biomedical applications. Biotechnology Advances, 2010, 28, 142-150.	11.7	868
4	Chitin and chitosan in selected biomedical applications. Progress in Polymer Science, 2014, 39, 1644-1667.	24.7	780
5	Flexible and Microporous Chitosan Hydrogel/Nano ZnO Composite Bandages for Wound Dressing: In Vitro and In Vivo Evaluation. ACS Applied Materials & Interfaces, 2012, 4, 2618-2629.	8.0	670
6	Sulfated chitin and chitosan as novel biomaterials. International Journal of Biological Macromolecules, 2007, 40, 175-181.	7.5	605
7	Sodium alginate/poly(vinyl alcohol)/nano ZnO composite nanofibers for antibacterial wound dressings. International Journal of Biological Macromolecules, 2011, 49, 247-254.	7.5	461
8	Novel carboxymethyl derivatives of chitin and chitosan materials and their biomedical applications. Progress in Materials Science, 2010, 55, 675-709.	32.8	454
9	Preparation, characterization, in vitro drug release and biological studies of curcumin loaded dextran sulphateâ€"chitosan nanoparticles. Carbohydrate Polymers, 2011, 84, 1158-1164.	10.2	417
10	Novel biodegradable chitosanâ€"gelatin/nano-bioactive glass ceramic composite scaffolds for alveolar bone tissue engineering. Chemical Engineering Journal, 2010, 158, 353-361.	12.7	354
11	Development of novel chitin/nanosilver composite scaffolds for wound dressing applications. Journal of Materials Science: Materials in Medicine, 2010, 21, 807-813.	3.6	345
12	Synthesis, characterization, cytotoxicity and antibacterial studies of chitosan, O-carboxymethyl and N,O-carboxymethyl chitosan nanoparticles. Carbohydrate Polymers, 2009, 78, 672-677.	10.2	342
13	Preparation and characterization of chitosanâ€"gelatin/nanohydroxyapatite composite scaffolds for tissue engineering applications. Carbohydrate Polymers, 2010, 80, 687-694.	10.2	317
14	Carrageenan based hydrogels for drug delivery, tissue engineering and wound healing. Carbohydrate Polymers, 2018, 198, 385-400.	10.2	306
15	Efficient water soluble O-carboxymethyl chitosan nanocarrier for the delivery of curcumin to cancer cells. Carbohydrate Polymers, 2011, 83, 452-461.	10.2	302
16	Preparation and characterization of novel Î²-chitin/nanosilver composite scaffolds for wound dressing applications. Carbohydrate Polymers, 2010, 80, 761-767.	10.2	281
17	An overview of injectable polymeric hydrogels for tissue engineering. European Polymer Journal, 2015, 72, 543-565.	5.4	280
18	Chitosan conjugated DNA nanoparticles in gene therapy. Carbohydrate Polymers, 2010, 79, 1-8.	10.2	273

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19	Electrospinning of carboxymethyl chitin/poly(vinyl alcohol) nanofibrous scaffolds for tissue engineering applications. Carbohydrate Polymers, 2009, 77, 863-869.	10.2	255
20	Chitosanâ€"hyaluronic acid/nano silver composite sponges for drug resistant bacteria infected diabetic wounds. International Journal of Biological Macromolecules, 2013, 62, 310-320.	7.5	238
21	Biocompatible alginate/nano bioactive glass ceramic composite scaffolds for periodontal tissue regeneration. Carbohydrate Polymers, 2012, 87, 274-283.	10.2	233
22	An overview of chitin or chitosan/nano ceramic composite scaffolds for bone tissue engineering. International Journal of Biological Macromolecules, 2016, 93, 1338-1353.	7.5	225
23	Curcumin loaded chitin nanogels for skin cancer treatment via the transdermal route. Nanoscale, 2012, 4, 239-250.	5.6	224
24	Curcumin-loaded biocompatible thermoresponsive polymeric nanoparticles for cancer drug delivery. Journal of Colloid and Interface Science, 2011, 360, 39-51.	9.4	220
25	Preparation of poly(lactic acid)/chitosan nanoparticles for anti-HIV drug delivery applications. Carbohydrate Polymers, 2010, 80, 833-838.	10.2	204
26	Preparation and characterization of novel chitosan/gelatin membranes using chitosan hydrogel. Carbohydrate Polymers, 2009, 76, 255-260.	10.2	198
27	Biomimetic Materials and Fabrication Approaches for Bone Tissue Engineering. Advanced Healthcare Materials, 2017, 6, 1700612.	7.6	193
28	Chitosan based metallic nanocomposite scaffolds as antimicrobial wound dressings. Bioactive Materials, 2018, 3, 267-277.	15.6	181
29	Folate conjugated carboxymethyl chitosanâ€"manganese doped zinc sulphide nanoparticles for targeted drug delivery and imaging of cancer cells. Carbohydrate Polymers, 2010, 80, 442-448.	10.2	175
30	Nanocomposite scaffolds of bioactive glass ceramic nanoparticles disseminated chitosan matrix for tissue engineering applications. Carbohydrate Polymers, 2010, 79, 284-289.	10.2	172
31	Fabrication and characterization of chitosan/gelatin/nSiO2 composite scaffold for bone tissue engineering. International Journal of Biological Macromolecules, 2013, 59, 255-263.	7.5	165
32	Chitin Scaffolds in Tissue Engineering. International Journal of Molecular Sciences, 2011, 12, 1876-1887.	4.1	162
33	Biodegradable and thermo-sensitive chitosan-g-poly(N-vinylcaprolactam) nanoparticles as a 5-fluorouracil carrier. Carbohydrate Polymers, 2011, 83, 776-786.	10.2	159
34	Preparative methods of phosphorylated chitin and chitosanâ€"An overview. International Journal of Biological Macromolecules, 2008, 43, 221-225.	7.5	158
35	Chitosanâ€"hyaluronic acid/VEGF loaded fibrin nanoparticles composite sponges for enhancing angiogenesis in wounds. Colloids and Surfaces B: Biointerfaces, 2015, 127, 105-113.	5.0	155
36	Development of mucoadhesive thiolated chitosan nanoparticles for biomedical applications. Carbohydrate Polymers, 2011, 83, 66-73.	10.2	152

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37	Wet chemical synthesis of chitosan hydrogelâ€“hydroxyapatite composite membranes for tissue engineering applications. International Journal of Biological Macromolecules, 2009, 45, 12-15.	7.5	151
38	Efficacy of tetracycline encapsulated O-carboxymethyl chitosan nanoparticles against intracellular infections of Staphylococcus aureus. International Journal of Biological Macromolecules, 2012, 51, 392-399.	7.5	150
39	Biocompatible, biodegradable and thermo-sensitive chitosan-g-poly (N-isopropylacrylamide) nanocarrier for curcumin drug delivery. International Journal of Biological Macromolecules, 2011, 49, 161-172.	7.5	149
40	Evaluation of Wound Healing Potential of Î²-Chitin Hydrogel/Nano Zinc Oxide Composite Bandage. Pharmaceutical Research, 2013, 30, 523-537.	3.5	145
41	Fabrication of chitosan/poly(caprolactone) nanofibrous scaffold for bone and skin tissue engineering. International Journal of Biological Macromolecules, 2011, 48, 571-576.	7.5	143
42	Biocompatible conducting chitosan/polypyrroleâ€“alginate composite scaffold for bone tissue engineering. International Journal of Biological Macromolecules, 2013, 62, 465-471.	7.5	141
43	Smart Stimuli Sensitive Nanogels in Cancer Drug Delivery and Imaging: A Review. Current Pharmaceutical Design, 2013, 19, 7203-7218.	1.9	140
44	Combinatorial anticancer effects of curcumin and 5-fluorouracil loaded thiolated chitosan nanoparticles towards colon cancer treatment. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2730-2743.	2.4	140
45	Curcumin-Loaded N , O -Carboxymethyl Chitosan Nanoparticles for Cancer Drug Delivery. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 1381-1400.	3.5	135
46	Novel carboxymethyl chitin nanoparticles for cancer drug delivery applications. Carbohydrate Polymers, 2010, 79, 1073-1079.	10.2	134
47	In vitro combinatorial anticancer effects of 5-fluorouracil and curcumin loaded N,O-carboxymethyl chitosan nanoparticles toward colon cancer and in vivo pharmacokinetic studies. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 238-251.	4.3	134
48	Fabrication of chitinâ€“chitosan/nano TiO2-composite scaffolds for tissue engineering applications. International Journal of Biological Macromolecules, 2011, 48, 336-344.	7.5	131
49	Injectable Chitin-Poly(Îµ-caprolactone)/Nanohydroxyapatite Composite Microgels Prepared by Simple Regeneration Technique for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2015, 7, 9399-9409.	8.0	127
50	Role of Nanofibrous Poly(Caprolactone) Scaffolds in Human Mesenchymal Stem Cell Attachment and Spreading forIn VitroBone Tissue Engineeringâ€"Response to Osteogenic Regulators. Tissue Engineering - Part A, 2010, 16, 393-404.	3.1	125
51	Biomedical applications of chitin hydrogel membranes and scaffolds. Carbohydrate Polymers, 2011, 84, 820-824.	10.2	125
52	Layered chitosan-collagen hydrogel/aligned PLLA nanofiber construct for flexor tendon regeneration. Carbohydrate Polymers, 2016, 153, 492-500.	10.2	124
53	Preparation and characterization of novel Î²-chitinâ€“hydroxyapatite composite membranes for tissue engineering applications. International Journal of Biological Macromolecules, 2009, 44, 1-5.	7.5	122
54	Novel chitin/nanosilica composite scaffolds for bone tissue engineering applications. International Journal of Biological Macromolecules, 2009, 45, 289-292.	7.5	117

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55	Development of novel Î±-chitin/nanobioactive glass ceramic composite scaffolds for tissue engineering applications. Carbohydrate Polymers, 2009, 78, 926-931.	10.2	113
56	Chitosan-graft-Î²-cyclodextrin scaffolds with controlled drug release capability for tissue engineering applications. International Journal of Biological Macromolecules, 2009, 44, 320-325.	7.5	113
57	Triâ€Layered Nanocomposite Hydrogel Scaffold for the Concurrent Regeneration of Cementum, Periodontal Ligament, and Alveolar Bone. Advanced Healthcare Materials, 2017, 6, 1601251.	7.6	111
58	Synthesis of phosphorylated chitosan by novel method and its characterization. International Journal of Biological Macromolecules, 2008, 42, 335-339.	7.5	109
59	Chitosanâ€"hyaluronan/nano chondroitin sulfate ternary composite sponges for medical use. Carbohydrate Polymers, 2013, 92, 1470-1476.	10.2	108
60	Nanogels for delivery, imaging and therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 509-533.	6.1	108
61	Novel biodegradable chitin membranes for tissue engineering applications. Carbohydrate Polymers, 2008, 73, 295-302.	10.2	107
62	Î²-Chitin hydrogel/nano hydroxyapatite composite scaffolds for tissue engineering applications. Carbohydrate Polymers, 2011, 85, 584-591.	10.2	107
63	Synthesis and Biological Evaluation of Chitin Hydrogel/Nano ZnO Composite Bandage as Antibacterial Wound Dressing. Journal of Biomedical Nanotechnology, 2012, 8, 891-900.	1.1	107
64	Effect of Incorporation of Nanoscale Bioactive Glass and Hydroxyapatite in PCL/Chitosan Nanofibers for Bone and Periodontal Tissue Engineering. Journal of Biomedical Nanotechnology, 2013, 9, 430-440.	1.1	105
65	Development and evaluation of 5-fluorouracil loaded chitin nanogels for treatment of skin cancer. Carbohydrate Polymers, 2013, 91, 48-57.	10.2	102
66	O-Carboxymethyl chitosan nanoparticles for metformin delivery to pancreatic cancer cells. Carbohydrate Polymers, 2012, 89, 1003-1007.	10.2	98
67	Fabrication of chitinâ€"chitosan/nano ZrO2 composite scaffolds for tissue engineering applications. International Journal of Biological Macromolecules, 2011, 49, 274-280.	7.5	97
68	Antimicrobial Activity of Chitosan-Carbon Nanotube Hydrogels. Materials, 2014, 7, 3946-3955.	2.9	97
69	Injectable alginate-O-carboxymethyl chitosan/nano fibrin composite hydrogels for adipose tissue engineering. International Journal of Biological Macromolecules, 2015, 74, 318-326.	7.5	96
70	Cetuximab conjugated O-carboxymethyl chitosan nanoparticles for targeting EGFR overexpressing cancer cells. Carbohydrate Polymers, 2013, 93, 661-669.	10.2	92
71	Chitosan nanoparticles in drug therapy of infectious and inflammatory diseases. Expert Opinion on Drug Delivery, 2016, 13, 1177-1194.	5.0	91
72	Preparation of Silver Nanoparticles Incorporated Electrospun Polyurethane Nano-fibrous Mat for Wound Dressing. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 1012-1018.	2.2	90

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73	Multifunctional Chitin Nanogels for Simultaneous Drug Delivery, Bioimaging, and Biosensing. ACS Applied Materials & Interfaces, 2011, 3, 3654-3665.	8.0	88
74	Doxorubicin-loaded pH-responsive chitin nanogels for drug delivery to cancer cells. Carbohydrate Polymers, 2012, 87, 2352-2356.	10.2	88
75	Fabrication of poly (l-lactic acid)/gelatin composite tubular scaffolds for vascular tissue engineering. International Journal of Biological Macromolecules, 2015, 72, 1048-1055.	7.5	88
76	Saponin-loaded chitosan nanoparticles and their cytotoxicity to cancer cell lines in vitro. Carbohydrate Polymers, 2011, 84, 407-416.	10.2	87
77	Synthesis and Characterization of pH-Sensitive Thiol-Containing Chitosan Beads for Controlled Drug Delivery Applications. Drug Delivery, 2007, 14, 9-17.	5.7	85
78	Acitretin and aloe-emodin loaded chitin nanogel for the treatment of psoriasis. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 107, 97-109.	4.3	85
79	Synthesis, characterization and bioactivity studies of novel Î²-chitin scaffolds for tissue-engineering applications. International Journal of Biological Macromolecules, 2008, 42, 463-467.	7.5	80
80	Anti-staphylococcal Activity of Injectable Nano Tigecycline/Chitosan-PRP Composite Hydrogel Using Drosophila melanogaster Model for Infectious Wounds. ACS Applied Materials & Interfaces, 2016, 8, 22074-22083.	8.0	80
81	Chitosanâ€“hyaluronic acid hydrogel coated poly(caprolactone) multiscale bilayer scaffold for ligament regeneration. Chemical Engineering Journal, 2015, 260, 478-485.	12.7	79
82	Preparation of biodegradable chitin/gelatin membranes with GlcNAc for tissue engineering applications. Carbohydrate Polymers, 2008, 73, 456-463.	10.2	76
83	Versatile carboxymethyl chitin and chitosan nanomaterials: a review. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 574-598.	6.1	76
84	Injectable deferoxamine nanoparticles loaded chitosan-hyaluronic acid coacervate hydrogel for therapeutic angiogenesis. Colloids and Surfaces B: Biointerfaces, 2018, 161, 129-138.	5.0	75
85	Role of nanostructured biopolymers and bioceramics in enamel, dentin and periodontal tissue regeneration. Progress in Polymer Science, 2013, 38, 1748-1772.	24.7	74
86	Synthesis, characterisation and biomedical applications of curcumin conjugated chitosan microspheres. International Journal of Biological Macromolecules, 2018, 110, 227-233.	7.5	74
87	Injectable angiogenic and osteogenic carrageenan nanocomposite hydrogel for bone tissue engineering. International Journal of Biological Macromolecules, 2019, 122, 320-328.	7.5	74
88	A novel chitosan/polyoxometalate nano-complex for anti-cancer applications. Carbohydrate Polymers, 2011, 84, 887-893.	10.2	73
89	Injectable chitosan-nano bioglass composite hemostatic hydrogel for effective bleeding control. International Journal of Biological Macromolecules, 2019, 129, 936-943.	7.5	73
90	Embedded Silica Nanoparticles in Poly(Caprolactone) Nanofibrous Scaffolds Enhanced Osteogenic Potential for Bone Tissue Engineering. Tissue Engineering - Part A, 2012, 18, 1867-1881.	3.1	72

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91	5-Flourouracil Loaded <I>N,O</I>-Carboxymethyl Chitosan Nanoparticles as an Anticancer Nanomedicine for Breast Cancer. Journal of Biomedical Nanotechnology, 2012, 8, 29-42.	1.1	71
92	Fucoidan coated ciprofloxacin loaded chitosan nanoparticles for the treatment of intracellular and biofilm infections of Salmonella. Colloids and Surfaces B: Biointerfaces, 2017, 160, 40-47.	5.0	70
93	Preparation, characterization, bioactive and metal uptake studies of alginate/phosphorylated chitin blend films. International Journal of Biological Macromolecules, 2009, 44, 107-111.	7.5	67
94	Bioactive and osteoblast cell attachment studies of novel Î±- and Î²-chitin membranes for tissue-engineering applications. International Journal of Biological Macromolecules, 2009, 45, 260-264.	7.5	66
95	In vitro evaluation of paclitaxel loaded amorphous chitin nanoparticles for colon cancer drug delivery. Colloids and Surfaces B: Biointerfaces, 2013, 104, 245-253.	5.0	65
96	Synthesis, characterization and cytocompatibility studies of Î±-chitin hydrogel/nano hydroxyapatite composite scaffolds. International Journal of Biological Macromolecules, 2011, 49, 20-31.	7.5	63
97	In Vitro and In Vivo Evaluation of Microporous Chitosan Hydrogel/Nanofibrin Composite Bandage for Skin Tissue Regeneration. Tissue Engineering - Part A, 2013, 19, 380-392.	3.1	63
98	Bioadhesive, Hemostatic, and Antibacterial in Situ Chitinâ€"Fibrin Nanocomposite Gel for Controlling Bleeding and Preventing Infections at Mediastinum. ACS Sustainable Chemistry and Engineering, 2018, 6, 7826-7840.	6.7	62
99	Chaulmoogra oil based methotrexate loaded topical nanoemulsion for the treatment of psoriasis. Journal of Drug Delivery Science and Technology, 2019, 49, 463-476.	3.0	62
100	Drug delivery and tissue engineering applications of biocompatible pectinâ€"chitin/nano CaCO3 composite scaffolds. Colloids and Surfaces B: Biointerfaces, 2013, 106, 109-116.	5.0	61
101	Synthesis, characterization and thermal properties of chitin-g-poly(É›-caprolactone) copolymers by using chitin gel. International Journal of Biological Macromolecules, 2008, 43, 32-36.	7.5	60
102	Methotrexate in the Treatment of Psoriasis and Rheumatoid Arthritis: Mechanistic Insights, Current Issues and Novel Delivery Approaches. Current Pharmaceutical Design, 2017, 23, 3550-3566.	1.9	60
103	Synthesis and Characterization of Chitosan/Chondroitin Sulfate/Nano-SiO₂ Composite Scaffold for Bone Tissue Engineering. Journal of Biomedical Nanotechnology, 2012, 8, 149-160.	1.1	59
104	Comparative anti-psoriatic efficacy studies of clobetasol loaded chitin nanogel and marketed cream. European Journal of Pharmaceutical Sciences, 2017, 96, 193-206.	4.0	59
105	Synthesis, characterization and in vitro cytocompatibility studies of chitin nanogels for biomedical applications. Carbohydrate Polymers, 2012, 87, 943-949.	10.2	58
106	Composite hydrogel of chitosanâ€"poly(hydroxybutyrate- co -valerate) with chondroitin sulfate nanoparticles for nucleus pulposus tissue engineering. Colloids and Surfaces B: Biointerfaces, 2015, 136, 84-92.	5.0	58
107	Injectable Shear-Thinning CaSO₄/FGF-18-Incorporated Chitinâ€"PLGA Hydrogel Enhances Bone Regeneration in Mice Cranial Bone Defect Model. ACS Applied Materials & Interfaces, 2017, 9, 42639-42652.	8.0	56
108	Flexible, micro-porous chitosanâ€"gelatin hydrogel/nanofibrin composite bandages for treating burn wounds. RSC Advances, 2014, 4, 65081-65087.	3.6	54

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109	Exploration of alginate hydrogel/nano zinc oxide composite bandages for infected wounds. International Journal of Nanomedicine, 2015, 10 Suppl 1, 53.	6.7	53
110	Injectable Nano Whitlockite Incorporated Chitosan Hydrogel for Effective Hemostasis. ACS Applied Bio Materials, 2019, 2, 865-873.	4.6	53
111	5-Fluorouracil loaded fibrinogen nanoparticles for cancer drug delivery applications. International Journal of Biological Macromolecules, 2011, 48, 98-105.	7.5	52
112	Functionalised gold nanoparticles for selective induction ofinÂvitroapoptosis among human cancer cell lines. Journal of Experimental Nanoscience, 2013, 8, 32-45.	2.4	51
113	Surface Plasma Treatment of Poly(caprolactone) Micro, Nano, and Multiscale Fibrous Scaffolds for Enhanced Osteoconductivity. Tissue Engineering - Part A, 2014, 20, 1689-1702.	3.1	51
114	Injectable osteogenic and angiogenic nanocomposite hydrogels for irregular bone defects. Biomedical Materials (Bristol), 2016, 11, 035017.	3.3	51
115	Bioglass-Incorporated Methacrylated Gelatin Cryogel for Regeneration of Bone Defects. Polymers, 2018, 10, 914.	4.5	51
116	Ciprofloxacin- and Fluconazole-Containing Fibrin-Nanoparticle-Incorporated Chitosan Bandages for the Treatment of Polymicrobial Wound Infections. ACS Applied Bio Materials, 2019, 2, 243-254.	4.6	51
117	Development of a phytochemical scaffold for bone tissue engineering using Cissus quadrangularis extract. Carbohydrate Polymers, 2012, 87, 1787-1795.	10.2	50
118	Hyaluronic Acid-Based Conjugates for Tumor-Targeted Drug Delivery and Imaging. Journal of Biomedical Nanotechnology, 2014, 10, 17-31.	1.1	48
119	<I>A Special Issue on</I> Polymer Conjugate Based Nanotherapeutics. Journal of Biomedical Nanotechnology, 2014, 10, 1-3.	1.1	48
120	Fluconazole Loaded Chitin Nanogels as a Topical Ocular Drug Delivery Agent for Corneal Fungal Infections. Journal of Biomedical Nanotechnology, 2013, 9, 1521-1531.	1.1	47
121	Tetracycline nanoparticles loaded calcium sulfate composite beads for periodontal management. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2080-2090.	2.4	47
122	Integration of in silico modeling, prediction by binding energy and experimental approach to study the amorphous chitin nanocarriers for cancer drug delivery. Carbohydrate Polymers, 2016, 142, 240-249.	10.2	47
123	Fabrication of chitin/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) hydrogel scaffold. Carbohydrate Polymers, 2012, 90, 725-729.	10.2	46
124	Doxorubicin-chitin-poly(caprolactone) composite nanogel for drug delivery. International Journal of Biological Macromolecules, 2013, 62, 35-43.	7.5	46
125	Combinatorial nanomedicines for colon cancer therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 151-159.	6.1	46
126	Nano polydopamine crosslinked thiol-functionalized hyaluronic acid hydrogel for angiogenic drug delivery. Colloids and Surfaces B: Biointerfaces, 2019, 177, 41-49.	5.0	46

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127	Fabrication of Aligned Poly(Lactic Acid)-Chitosan Nanofibers by Novel Parallel Blade Collector Method for Skin Tissue Engineering. Journal of Biomedical Nanotechnology, 2012, 8, 405-416.	1.1	45
128	Alginate nanobeads interspersed fibrin network as in situ forming hydrogel for soft tissue engineering. Bioactive Materials, 2018, 3, 194-200.	15.6	45
129	Synthesis and Anti-Staphylococcal Activity of TiO₂ Nanoparticles and Nanowires in <I>Ex Vivo</I> Porcine Skin Model. Journal of Biomedical Nanotechnology, 2014, 10, 864-870.	1.1	44
130	Amphotericin B loaded sulfonated chitosan nanoparticles for targeting macrophages to treat intracellular Candida glabrata infections. International Journal of Biological Macromolecules, 2018, 110, 133-139.	7.5	44
131	Studies on metal-containing copolyurethanes. Reactive and Functional Polymers, 2003, 55, 267-276.	4.1	43
132	Fabrication of alginate/nanoTiO2 needle composite scaffolds for tissue engineering applications. Carbohydrate Polymers, 2011, 83, 858-864.	10.2	43
133	In vitro targeted imaging and delivery of camptothecin using cetuximab-conjugated multifunctional PLGA-ZnS nanoparticles. Nanomedicine, 2012, 7, 507-519.	3.3	43
134	Antibacterial and Bioactive <I>Î±</I>- and <I>Î²</I>-Chitin Hydrogel/Nanobioactive Glass Ceramic/Nano Silver Composite Scaffolds for Periodontal Regeneration. Journal of Biomedical Nanotechnology, 2013, 9, 1803-1816.	1.1	43
135	Nano-fibrin stabilized CaSO 4 crystals incorporated injectable chitin composite hydrogel for enhanced angiogenesis & osteogenesis. Carbohydrate Polymers, 2016, 140, 144-153.	10.2	43
136	Development of novel fibrinogen nanoparticles by two-step co-acervation method. International Journal of Biological Macromolecules, 2010, 47, 37-43.	7.5	42
137	Biocompatible and Antibacterial Nanofibrous Poly(Ïµ-caprolactone)-Nanosilver Composite Scaffolds for Tissue Engineering Applications. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 131-138.	2.2	42
138	Silymarin Encapsulated Poly(D, L-lactic-co-glycolic acid) Nanoparticles: A Prospective Candidate for Prostate Cancer Therapy. Journal of Biomedical Nanotechnology, 2014, 10, 559-570.	1.1	42
139	Chitosan cross-linked docetaxel loaded EGF receptor targeted nanoparticles for lung cancer cells. International Journal of Biological Macromolecules, 2014, 69, 532-541.	7.5	42
140	Delivery of rifampicin-chitin nanoparticles into the intracellular compartment of polymorphonuclear leukocytes. International Journal of Biological Macromolecules, 2015, 74, 36-43.	7.5	42
141	Nanostrontium ranelate incorporated injectable hydrogel enhanced matrix production supporting chondrogenesis in vitro. Journal of Materials Chemistry B, 2016, 4, 4092-4103.	5.8	42
142	Electrospun Nanofibrous Scaffolds-Current Status and Prospects in Drug Delivery. Advances in Polymer Science, 2011, , 241-262.	0.8	41
143	Actively Targeted Cetuximab Conjugated Î³-Poly(glutamic acid)-Docetaxel Nanomedicines for Epidermal Growth Factor Receptor Over Expressing Colon Cancer Cells. Journal of Biomedical Nanotechnology, 2014, 10, 1416-1428.	1.1	41
144	Radio frequency responsive nano-biomaterials for cancer therapy. Journal of Controlled Release, 2015, 204, 85-97.	9.9	41

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145	Synthesis, characterization, and antibacterial activity of metal-containing polyurethanes. Journal of Applied Polymer Science, 2004, 91, 288-295.	2.6	40
146	Synthesis, characterization, and thermal properties of phosphorylated chitin for biomedical applications. Polymer Engineering and Science, 2009, 49, 844-849.	3.1	39
147	Development of drug delivery systems for taxanes using ionic gelation of carboxyacyl derivatives of chitosan. Carbohydrate Polymers, 2017, 162, 49-55.	10.2	39
148	In Vitro and in Vivo Evaluation of Osteoporosis Therapeutic Peptide PTH 1â€“34 Loaded PEGylated Chitosan Nanoparticles. Molecular Pharmaceutics, 2013, 10, 4159-4167.	4.6	38
149	Comparative efficacy of chloramphenicol loaded chondroitin sulfate and dextran sulfate nanoparticles to treat intracellular Salmonella infections. Colloids and Surfaces B: Biointerfaces, 2015, 127, 33-40.	5.0	38
150	Sequential layer-by-layer electrospinning of nano SrCO3/PRP loaded PHBV fibrous scaffold for bone tissue engineering. Composites Part B: Engineering, 2016, 99, 445-452.	12.0	38
151	Prospection of chitosan and its derivatives in wound healing: Proof of patent analysis (2010â€“2020). International Journal of Biological Macromolecules, 2021, 184, 701-712.	7.5	38
152	Dual drug encapsulated thermo-sensitive fibrinogen-graft-poly (N-isopropyl acrylamide) nanogels for breast cancer therapy. Colloids and Surfaces B: Biointerfaces, 2014, 114, 209-217.	5.0	37
153	Preparation, characterization and efficacy of lysostaphin-chitosan gel against Staphylococcus aureus. International Journal of Biological Macromolecules, 2018, 110, 157-166.	7.5	37
154	Bioengineered Braided Microâ€“Nano (Multiscale) Fibrous Scaffolds for Tendon Reconstruction. ACS Biomaterials Science and Engineering, 2019, 5, 1476-1486.	5.2	37
155	Preparation, characterization, bioactive and cell attachment studies of Î±-chitin/gelatin composite membranes. International Journal of Biological Macromolecules, 2009, 44, 333-337.	7.5	36
156	Anti-cancer, pharmacokinetics and tumor localization studies of pH-, RF- and thermo-responsive nanoparticles. International Journal of Biological Macromolecules, 2015, 74, 249-262.	7.5	36
157	Bilayered construct for simultaneous regeneration of alveolar bone and periodontal ligament. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 761-770.	3.4	36
158	Bio-responsive chitin-poly(l-lactic acid) composite nanogels for liver cancer. Colloids and Surfaces B: Biointerfaces, 2014, 113, 394-402.	5.0	35
159	Periodontal Specific Differentiation of Dental Follicle Stem Cells into Osteoblast, Fibroblast, and Cementoblast. Tissue Engineering - Part C: Methods, 2015, 21, 1044-1058.	2.1	35
160	Breast Tumor Targetable Fe₃O₄ Embedded Thermo-Responsive Nanoparticles for Radiofrequency Assisted Drug Delivery. Journal of Biomedical Nanotechnology, 2016, 12, 43-55.	1.1	35
161	Synthesis, Characterization and Preliminary <I>In Vitro</I> Evaluation of PTH 1-34 Loaded Chitosan Nanoparticles for Osteoporosis. Journal of Biomedical Nanotechnology, 2012, 8, 98-106.	1.1	34
162	In-situ silver nanoparticles incorporated N, O-carboxymethyl chitosan based adhesive, self-healing, conductive, antibacterial and anti-biofilm hydrogel. International Journal of Biological Macromolecules, 2021, 188, 501-511.	7.5	34

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