

Jayakumar Rangasamy

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

253
papers

19,487
citations

73
h-index

132
g-index

302
ext. papers

21,609
ext. citations

6.8
avg, IF

7.02
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 253 | Biomaterials based on chitin and chitosan in wound dressing applications. <i>Biotechnology Advances</i> , 2011 , 29, 322-37 | 17.8 | 1311 |
| 252 | Biomedical applications of chitin and chitosan based nanomaterials: A short review. <i>Carbohydrate Polymers</i> , 2010 , 82, 227-232 | 10.3 | 940 |
| 251 | Novel chitin and chitosan nanofibers in biomedical applications. <i>Biotechnology Advances</i> , 2010 , 28, 142-50 | 7.8 | 769 |
| 250 | Chitin and chitosan in selected biomedical applications. <i>Progress in Polymer Science</i> , 2014 , 39, 1644-1667 | 29.6 | 645 |
| 249 | Flexible and microporous chitosan hydrogel/nano ZnO composite bandages for wound dressing: in vitro and in vivo evaluation. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2618-29 | 9.5 | 583 |
| 248 | Sulfated chitin and chitosan as novel biomaterials. <i>International Journal of Biological Macromolecules</i> , 2007 , 40, 175-81 | 7.9 | 511 |
| 247 | Sodium alginate/poly(vinyl alcohol)/nano ZnO composite nanofibers for antibacterial wound dressings. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 247-54 | 7.9 | 386 |
| 246 | Novel carboxymethyl derivatives of chitin and chitosan materials and their biomedical applications. <i>Progress in Materials Science</i> , 2010 , 55, 675-709 | 42.2 | 382 |
| 245 | Preparation, characterization, in vitro drug release and biological studies of curcumin loaded dextran sulphate-chitosan nanoparticles. <i>Carbohydrate Polymers</i> , 2011 , 84, 1158-1164 | 10.3 | 347 |
| 244 | Novel biodegradable chitosan-gelatin/nano-bioactive glass ceramic composite scaffolds for alveolar bone tissue engineering. <i>Chemical Engineering Journal</i> , 2010 , 158, 353-361 | 14.7 | 306 |
| 243 | Development of novel chitin/nanosilver composite scaffolds for wound dressing applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 807-13 | 4.5 | 291 |
| 242 | Synthesis, characterization, cytotoxicity and antibacterial studies of chitosan, O-carboxymethyl and N,O-carboxymethyl chitosan nanoparticles. <i>Carbohydrate Polymers</i> , 2009 , 78, 672-677 | 10.3 | 283 |
| 241 | Preparation and characterization of chitosan-gelatin/nanohydroxyapatite composite scaffolds for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2010 , 80, 687-694 | 10.3 | 270 |
| 240 | Efficient water soluble O-carboxymethyl chitosan nanocarrier for the delivery of curcumin to cancer cells. <i>Carbohydrate Polymers</i> , 2011 , 83, 452-461 | 10.3 | 260 |
| 239 | Chitosan conjugated DNA nanoparticles in gene therapy. <i>Carbohydrate Polymers</i> , 2010 , 79, 1-8 | 10.3 | 248 |
| 238 | Preparation and characterization of novel chitin/nanosilver composite scaffolds for wound dressing applications. <i>Carbohydrate Polymers</i> , 2010 , 80, 761-767 | 10.3 | 232 |
| 237 | Electrospinning of carboxymethyl chitin/poly(vinyl alcohol) nanofibrous scaffolds for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2009 , 77, 863-869 | 10.3 | 228 |

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| 236 | An overview of injectable polymeric hydrogels for tissue engineering. <i>European Polymer Journal</i> , 2015 , 72, 543-565 | 5.2 | 221 |
| 235 | Biocompatible alginate/nano bioactive glass ceramic composite scaffolds for periodontal tissue regeneration. <i>Carbohydrate Polymers</i> , 2012 , 87, 274-283 | 10.3 | 202 |
| 234 | Chitosan-hyaluronic acid/nano silver composite sponges for drug resistant bacteria infected diabetic wounds. <i>International Journal of Biological Macromolecules</i> , 2013 , 62, 310-20 | 7.9 | 193 |
| 233 | Curcumin-loaded biocompatible thermoresponsive polymeric nanoparticles for cancer drug delivery. <i>Journal of Colloid and Interface Science</i> , 2011 , 360, 39-51 | 9.3 | 193 |
| 232 | Curcumin loaded chitin nanogels for skin cancer treatment via the transdermal route. <i>Nanoscale</i> , 2012 , 4, 239-50 | 7.7 | 181 |
| 231 | An overview of chitin or chitosan/nano ceramic composite scaffolds for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1338-1353 | 7.9 | 177 |
| 230 | Preparation of poly(lactic acid)/chitosan nanoparticles for anti-HIV drug delivery applications. <i>Carbohydrate Polymers</i> , 2010 , 80, 833-838 | 10.3 | 172 |
| 229 | Carrageenan based hydrogels for drug delivery, tissue engineering and wound healing. <i>Carbohydrate Polymers</i> , 2018 , 198, 385-400 | 10.3 | 170 |
| 228 | Nanocomposite scaffolds of bioactive glass ceramic nanoparticles disseminated chitosan matrix for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2010 , 79, 284-289 | 10.3 | 153 |
| 227 | Preparation and characterization of novel chitosan/gelatin membranes using chitosan hydrogel. <i>Carbohydrate Polymers</i> , 2009 , 76, 255-260 | 10.3 | 146 |
| 226 | Folate conjugated carboxymethyl chitosan/manganese doped zinc sulphide nanoparticles for targeted drug delivery and imaging of cancer cells. <i>Carbohydrate Polymers</i> , 2010 , 80, 442-448 | 10.3 | 144 |
| 225 | Biodegradable and thermo-sensitive chitosan-g-poly(N-vinylcaprolactam) nanoparticles as a 5-fluorouracil carrier. <i>Carbohydrate Polymers</i> , 2011 , 83, 776-786 | 10.3 | 141 |
| 224 | Fabrication and characterization of chitosan/gelatin/nSiO ₂ composite scaffold for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2013 , 59, 255-63 | 7.9 | 137 |
| 223 | Wet chemical synthesis of chitosan hydrogel-hydroxyapatite composite membranes for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2009 , 45, 12-5 | 7.9 | 136 |
| 222 | Chitin scaffolds in tissue engineering. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 1876-87 | 6.3 | 133 |
| 221 | Preparative methods of phosphorylated chitin and chitosan--an overview. <i>International Journal of Biological Macromolecules</i> , 2008 , 43, 221-5 | 7.9 | 132 |
| 220 | Chitosan based metallic nanocomposite scaffolds as antimicrobial wound dressings. <i>Bioactive Materials</i> , 2018 , 3, 267-277 | 16.7 | 129 |
| 219 | Biocompatible, biodegradable and thermo-sensitive chitosan-g-poly (N-isopropylacrylamide) nanocarrier for curcumin drug delivery. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 161-72 | 7.9 | 127 |

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| 218 | Evaluation of wound healing potential of Chitin hydrogel/nano zinc oxide composite bandage. <i>Pharmaceutical Research</i> , 2013 , 30, 523-37 | 4.5 | 125 |
| 217 | Fabrication of chitosan/poly(caprolactone) nanofibrous scaffold for bone and skin tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 571-6 | 7.9 | 125 |
| 216 | Efficacy of tetracycline encapsulated O-carboxymethyl chitosan nanoparticles against intracellular infections of Staphylococcus aureus. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 392-9 | 7.9 | 124 |
| 215 | Biocompatible conducting chitosan/polypyrrole-alginate composite scaffold for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2013 , 62, 465-71 | 7.9 | 122 |
| 214 | Development of mucoadhesive thiolated chitosan nanoparticles for biomedical applications. <i>Carbohydrate Polymers</i> , 2011 , 83, 66-73 | 10.3 | 122 |
| 213 | Chitosan-hyaluronic acid/VEGF loaded fibrin nanoparticles composite sponges for enhancing angiogenesis in wounds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 127, 105-13 | 6 | 120 |
| 212 | Smart stimuli sensitive nanogels in cancer drug delivery and imaging: a review. <i>Current Pharmaceutical Design</i> , 2013 , 19, 7203-18 | 3.3 | 116 |
| 211 | Fabrication of chitin-chitosan/nano TiO ₂ -composite scaffolds for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 336-44 | 7.9 | 116 |
| 210 | Novel carboxymethyl chitin nanoparticles for cancer drug delivery applications. <i>Carbohydrate Polymers</i> , 2010 , 79, 1073-1079 | 10.3 | 114 |
| 209 | Biomimetic Materials and Fabrication Approaches for Bone Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700612 | 10.1 | 113 |
| 208 | Preparation and characterization of novel beta-chitin-hydroxyapatite composite membranes for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 1-5 | 7.9 | 111 |
| 207 | In vitro combinatorial anticancer effects of 5-fluorouracil and curcumin loaded N,O-carboxymethyl chitosan nanoparticles toward colon cancer and in vivo pharmacokinetic studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 88, 238-51 | 5.7 | 110 |
| 206 | Combinatorial anticancer effects of curcumin and 5-fluorouracil loaded thiolated chitosan nanoparticles towards colon cancer treatment. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 2730-43 | 4 | 110 |
| 205 | Biomedical applications of chitin hydrogel membranes and scaffolds. <i>Carbohydrate Polymers</i> , 2011 , 84, 820-824 | 10.3 | 108 |
| 204 | Role of nanofibrous poly(caprolactone) scaffolds in human mesenchymal stem cell attachment and spreading for in vitro bone tissue engineering--response to osteogenic regulators. <i>Tissue Engineering - Part A</i> , 2010 , 16, 393-404 | 3.9 | 108 |
| 203 | Injectable Chitin-Poly(Ecaprolactone)/Nanohydroxyapatite Composite Microgels Prepared by Simple Regeneration Technique for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9399-409 | 9.5 | 103 |
| 202 | Novel chitin/nanosilica composite scaffolds for bone tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2009 , 45, 289-92 | 7.9 | 103 |
| 201 | Development of novel Chitin/nanobioactive glass ceramic composite scaffolds for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2009 , 78, 926-931 | 10.3 | 102 |

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| 200 | Chitosan-graft-beta-cyclodextrin scaffolds with controlled drug release capability for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 320-5 | 7.9 | 99 |
| 199 | Novel biodegradable chitin membranes for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2008 , 73, 295-302 | 10.3 | 97 |
| 198 | Layered chitosan-collagen hydrogel/aligned PLLA nanofiber construct for flexor tendon regeneration. <i>Carbohydrate Polymers</i> , 2016 , 153, 492-500 | 10.3 | 94 |
| 197 | Effect of incorporation of nanoscale bioactive glass and hydroxyapatite in PCL/chitosan nanofibers for bone and periodontal tissue engineering. <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 430-40 | 4 | 93 |
| 196 | Chitin hydrogel/nano hydroxyapatite composite scaffolds for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2011 , 85, 584-591 | 10.3 | 93 |
| 195 | Chitosan-hyaluronan/nano chondroitin sulfate ternary composite sponges for medical use. <i>Carbohydrate Polymers</i> , 2013 , 92, 1470-6 | 10.3 | 92 |
| 194 | Synthesis of phosphorylated chitosan by novel method and its characterization. <i>International Journal of Biological Macromolecules</i> , 2008 , 42, 335-9 | 7.9 | 91 |
| 193 | Curcumin-loaded N,O-carboxymethyl chitosan nanoparticles for cancer drug delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 1381-400 | 3.5 | 88 |
| 192 | Synthesis and biological evaluation of chitin hydrogel/nano ZnO composite bandage as antibacterial wound dressing. <i>Journal of Biomedical Nanotechnology</i> , 2012 , 8, 891-900 | 4 | 86 |
| 191 | Development and evaluation of 5-fluorouracil loaded chitin nanogels for treatment of skin cancer. <i>Carbohydrate Polymers</i> , 2013 , 91, 48-57 | 10.3 | 82 |
| 190 | Antimicrobial Activity of Chitosan-Carbon Nanotube Hydrogels. <i>Materials</i> , 2014 , 7, 3946-3955 | 3.5 | 82 |
| 189 | Cetuximab conjugated O-carboxymethyl chitosan nanoparticles for targeting EGFR overexpressing cancer cells. <i>Carbohydrate Polymers</i> , 2013 , 93, 661-9 | 10.3 | 81 |
| 188 | Injectable alginate-O-carboxymethyl chitosan/nano fibrin composite hydrogels for adipose tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2015 , 74, 318-26 | 7.9 | 81 |
| 187 | Preparation of Silver Nanoparticles Incorporated Electrospun Polyurethane Nano-fibrous Mat for Wound Dressing. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010 , 47, 1012-1018 | 2.2 | 81 |
| 186 | Nanogels for delivery, imaging and therapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015 , 7, 509-33 | 9.2 | 80 |
| 185 | O-carboxymethyl chitosan nanoparticles for metformin delivery to pancreatic cancer cells. <i>Carbohydrate Polymers</i> , 2012 , 89, 1003-7 | 10.3 | 80 |
| 184 | Multifunctional chitin nanogels for simultaneous drug delivery, bioimaging, and biosensing. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3654-65 | 9.5 | 76 |
| 183 | Doxorubicin-loaded pH-responsive chitin nanogels for drug delivery to cancer cells. <i>Carbohydrate Polymers</i> , 2012 , 87, 2352-2356 | 10.3 | 75 |

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| 182 | Fabrication of chitin-chitosan/nano ZrO(2) composite scaffolds for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 274-80 | 7.9 | 74 |
| 181 | Synthesis, characterization and bioactivity studies of novel beta-chitin scaffolds for tissue-engineering applications. <i>International Journal of Biological Macromolecules</i> , 2008 , 42, 463-7 | 7.9 | 73 |
| 180 | Synthesis and characterization of pH-sensitive thiol-containing chitosan beads for controlled drug delivery applications. <i>Drug Delivery</i> , 2007 , 14, 9-17 | 7 | 73 |
| 179 | Saponin-loaded chitosan nanoparticles and their cytotoxicity to cancer cell lines in vitro. <i>Carbohydrate Polymers</i> , 2011 , 84, 407-416 | 10.3 | 70 |
| 178 | Preparation of biodegradable chitin/gelatin membranes with GlcNAc for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2008 , 73, 456-463 | 10.3 | 69 |
| 177 | Fabrication of poly (L-lactic acid)/gelatin composite tubular scaffolds for vascular tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 1048-55 | 7.9 | 67 |
| 176 | Role of nanostructured biopolymers and bioceramics in enamel, dentin and periodontal tissue regeneration. <i>Progress in Polymer Science</i> , 2013 , 38, 1748-1772 | 29.6 | 67 |
| 175 | Chitosan nanoparticles in drug therapy of infectious and inflammatory diseases. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 1177-94 | 8 | 65 |
| 174 | Chitosan/hyaluronic acid hydrogel coated poly(caprolactone) multiscale bilayer scaffold for ligament regeneration. <i>Chemical Engineering Journal</i> , 2015 , 260, 478-485 | 14.7 | 64 |
| 173 | Embedded silica nanoparticles in poly(caprolactone) nanofibrous scaffolds enhanced osteogenic potential for bone tissue engineering. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1867-81 | 3.9 | 64 |
| 172 | A novel chitosan/polyoxometalate nano-complex for anti-cancer applications. <i>Carbohydrate Polymers</i> , 2011 , 84, 887-893 | 10.3 | 64 |
| 171 | 5-fluorouracil loaded N,O-carboxymethyl chitosan nanoparticles as an anticancer nanomedicine for breast cancer. <i>Journal of Biomedical Nanotechnology</i> , 2012 , 8, 29-42 | 4 | 63 |
| 170 | Anti-staphylococcal Activity of Injectable Nano Tigecycline/Chitosan-PRP Composite Hydrogel Using <i>Drosophila melanogaster</i> Model for Infectious Wounds. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22074-83 | 9.5 | 63 |
| 169 | Preparation, characterization, bioactive and metal uptake studies of alginate/phosphorylated chitin blend films. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 107-11 | 7.9 | 61 |
| 168 | Tri-Layered Nanocomposite Hydrogel Scaffold for the Concurrent Regeneration of Cementum, Periodontal Ligament, and Alveolar Bone. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601251 | 10.1 | 60 |
| 167 | Bioactive and osteoblast cell attachment studies of novel alpha- and beta-chitin membranes for tissue-engineering applications. <i>International Journal of Biological Macromolecules</i> , 2009 , 45, 260-4 | 7.9 | 59 |
| 166 | Synthesis, characterization and cytocompatibility studies of chitin hydrogel/nano hydroxyapatite composite scaffolds. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 20-31 | 7.9 | 57 |
| 165 | Synthesis, characterization and thermal properties of chitin-g-poly(epsilon-caprolactone) copolymers by using chitin gel. <i>International Journal of Biological Macromolecules</i> , 2008 , 43, 32-6 | 7.9 | 57 |

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| 164 | Versatile carboxymethyl chitin and chitosan nanomaterials: a review. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014 , 6, 574-98 | 9.2 | 53 |
| 163 | Injectable deferoxamine nanoparticles loaded chitosan-hyaluronic acid coacervate hydrogel for therapeutic angiogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 161, 129-138 | 6 | 52 |
| 162 | Acitretin and aloe-emodin loaded chitin nanogel for the treatment of psoriasis. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 107, 97-109 | 5.7 | 52 |
| 161 | In vitro and in vivo evaluation of microporous chitosan hydrogel/nanofibrin composite bandage for skin tissue regeneration. <i>Tissue Engineering - Part A</i> , 2013 , 19, 380-92 | 3.9 | 51 |
| 160 | Synthesis and characterization of chitosan/chondroitin sulfate/nano-SiO ₂ composite scaffold for bone tissue engineering. <i>Journal of Biomedical Nanotechnology</i> , 2012 , 8, 149-60 | 4 | 50 |
| 159 | Drug delivery and tissue engineering applications of biocompatible pectin-chitin/nano CaCO ₃ composite scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 106, 109-16 | 6 | 50 |
| 158 | In vitro evaluation of paclitaxel loaded amorphous chitin nanoparticles for colon cancer drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 104, 245-53 | 6 | 49 |
| 157 | Fucoidan coated ciprofloxacin loaded chitosan nanoparticles for the treatment of intracellular and biofilm infections of Salmonella. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 160, 40-47 | 6 | 49 |
| 156 | Synthesis, characterization and in vitro cytocompatibility studies of chitin nanogels for biomedical applications. <i>Carbohydrate Polymers</i> , 2012 , 87, 943-949 | 10.3 | 48 |
| 155 | 5-fluorouracil loaded fibrinogen nanoparticles for cancer drug delivery applications. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 98-105 | 7.9 | 47 |
| 154 | Composite hydrogel of chitosan-poly(hydroxybutyrate-co-valerate) with chondroitin sulfate nanoparticles for nucleus pulposus tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 84-92 | 6 | 46 |
| 153 | Fabrication of chitin/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) hydrogel scaffold. <i>Carbohydrate Polymers</i> , 2012 , 90, 725-9 | 10.3 | 45 |
| 152 | Injectable chitosan-nano bioglass composite hemostatic hydrogel for effective bleeding control. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 936-943 | 7.9 | 43 |
| 151 | Surface plasma treatment of poly(caprolactone) micro, nano, and multiscale fibrous scaffolds for enhanced osteoconductivity. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1689-702 | 3.9 | 43 |
| 150 | Injectable Shear-Thinning CaSO ₄ /FGF-18-Incorporated Chitin-PLGA Hydrogel Enhances Bone Regeneration in Mice Cranial Bone Defect Model. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42639-42652 | 9.5 | 43 |
| 149 | Injectable angiogenic and osteogenic carrageenan nanocomposite hydrogel for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 320-328 | 7.9 | 43 |
| 148 | Synthesis, characterisation and biomedical applications of curcumin conjugated chitosan microspheres. <i>International Journal of Biological Macromolecules</i> , 2018 , 110, 227-233 | 7.9 | 43 |
| 147 | Flexible, micro-porous chitosan/gelatin hydrogel/nanofibrin composite bandages for treating burn wounds. <i>RSC Advances</i> , 2014 , 4, 65081-65087 | 3.7 | 42 |

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| 146 | Hyaluronic acid-based conjugates for tumor-targeted drug delivery and imaging. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 17-31 | 4 | 41 |
| 145 | Development of a phytochemical scaffold for bone tissue engineering using <i>Cissus quadrangularis</i> extract. <i>Carbohydrate Polymers</i> , 2012 , 87, 1787-1795 | 10.3 | 41 |
| 144 | Studies on metal-containing copolyurethanes. <i>Reactive and Functional Polymers</i> , 2003 , 55, 267-276 | 4.6 | 40 |
| 143 | Alginate nanobeads interspersed fibrin network as forming hydrogel for soft tissue engineering. <i>Bioactive Materials</i> , 2018 , 3, 194-200 | 16.7 | 39 |
| 142 | Injectable osteogenic and angiogenic nanocomposite hydrogels for irregular bone defects. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 035017 | 3.5 | 39 |
| 141 | Synthesis and anti-staphylococcal activity of TiO ₂ nanoparticles and nanowires in ex vivo porcine skin model. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 864-70 | 4 | 39 |
| 140 | Tetracycline nanoparticles loaded calcium sulfate composite beads for periodontal management. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 2080-90 | 4 | 38 |
| 139 | Doxorubicin-chitin-poly(caprolactone) composite nanogel for drug delivery. <i>International Journal of Biological Macromolecules</i> , 2013 , 62, 35-43 | 7.9 | 38 |
| 138 | Comparative anti-psoriatic efficacy studies of clobetasol loaded chitin nanogel and marketed cream. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 96, 193-206 | 5.1 | 38 |
| 137 | Fabrication of alginate/nanoTiO ₂ needle composite scaffolds for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2011 , 83, 858-864 | 10.3 | 38 |
| 136 | Synthesis, characterization, and antibacterial activity of metal-containing polyurethanes. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 288-295 | 2.9 | 38 |
| 135 | Chaulmoogra oil based methotrexate loaded topical nanoemulsion for the treatment of psoriasis. <i>Journal of Drug Delivery Science and Technology</i> , 2019 , 49, 463-476 | 4.5 | 38 |
| 134 | Chitosan cross-linked docetaxel loaded EGF receptor targeted nanoparticles for lung cancer cells. <i>International Journal of Biological Macromolecules</i> , 2014 , 69, 532-41 | 7.9 | 37 |
| 133 | In vitro targeted imaging and delivery of camptothecin using cetuximab-conjugated multifunctional PLGA-ZnS nanoparticles. <i>Nanomedicine</i> , 2012 , 7, 507-19 | 5.6 | 37 |
| 132 | Fabrication of aligned poly(lactic acid)-chitosan nanofibers by novel parallel blade collector method for skin tissue engineering. <i>Journal of Biomedical Nanotechnology</i> , 2012 , 8, 405-16 | 4 | 37 |
| 131 | Functionalised gold nanoparticles for selective induction of in vitro apoptosis among human cancer cell lines. <i>Journal of Experimental Nanoscience</i> , 2013 , 8, 32-45 | 1.9 | 37 |
| 130 | Delivery of rifampicin-chitin nanoparticles into the intracellular compartment of polymorphonuclear leukocytes. <i>International Journal of Biological Macromolecules</i> , 2015 , 74, 36-43 | 7.9 | 36 |
| 129 | Biocompatible and Antibacterial Nanofibrous Poly(?-caprolactone)-Nanosilver Composite Scaffolds for Tissue Engineering Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012 , 49, 131-138 | 2.2 | 36 |

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| 128 | Synthesis, characterization, and thermal properties of phosphorylated chitin for biomedical applications. <i>Polymer Engineering and Science</i> , 2009 , 49, 844-849 | 2.3 | 36 |
| 127 | Bioglass-Incorporated Methacrylated Gelatin Cryogel for Regeneration of Bone Defects. <i>Polymers</i> , 2018 , 10, | 4.5 | 36 |
| 126 | Integration of in silico modeling, prediction by binding energy and experimental approach to study the amorphous chitin nanocarriers for cancer drug delivery. <i>Carbohydrate Polymers</i> , 2016 , 142, 240-9 | 10.3 | 35 |
| 125 | Actively targeted cetuximab conjugated gamma-poly(glutamic acid)-docetaxel nanomedicines for epidermal growth factor receptor over expressing colon cancer cells. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 1416-28 | 4 | 35 |
| 124 | Exploration of alginate hydrogel/nano zinc oxide composite bandages for infected wounds. <i>International Journal of Nanomedicine</i> , 2015 , 10 Suppl 1, 53-66 | 7.3 | 35 |
| 123 | Radio frequency responsive nano-biomaterials for cancer therapy. <i>Journal of Controlled Release</i> , 2015 , 204, 85-97 | 11.7 | 34 |
| 122 | Development of novel fibrinogen nanoparticles by two-step co-acervation method. <i>International Journal of Biological Macromolecules</i> , 2010 , 47, 37-43 | 7.9 | 34 |
| 121 | Methotrexate in the Treatment of Psoriasis and Rheumatoid Arthritis: Mechanistic Insights, Current Issues and Novel Delivery Approaches. <i>Current Pharmaceutical Design</i> , 2017 , 23, 3550-3566 | 3.3 | 34 |
| 120 | Nanostrontium ranelate incorporated injectable hydrogel enhanced matrix production supporting chondrogenesis in vitro. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4092-4103 | 7.3 | 34 |
| 119 | Bioadhesive, Hemostatic, and Antibacterial in Situ Chitin/Fibrin Nanocomposite Gel for Controlling Bleeding and Preventing Infections at Mediastinum. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7826-7840 | 8.3 | 33 |
| 118 | Preparation, characterization, bioactive and cell attachment studies of alpha-chitin/gelatin composite membranes. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 333-7 | 7.9 | 33 |
| 117 | Development of drug delivery systems for taxanes using ionic gelation of carboxyacyl derivatives of chitosan. <i>Carbohydrate Polymers</i> , 2017 , 162, 49-55 | 10.3 | 32 |
| 116 | Nano-fibrin stabilized CaSO ₄ crystals incorporated injectable chitin composite hydrogel for enhanced angiogenesis & osteogenesis. <i>Carbohydrate Polymers</i> , 2016 , 140, 144-53 | 10.3 | 32 |
| 115 | Injectable Nano Whitlockite Incorporated Chitosan Hydrogel for Effective Hemostasis.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 865-873 | 4.1 | 32 |
| 114 | Comparative efficacy of chloramphenicol loaded chondroitin sulfate and dextran sulfate nanoparticles to treat intracellular Salmonella infections. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 127, 33-40 | 6 | 31 |
| 113 | Amphotericin B loaded sulfonated chitosan nanoparticles for targeting macrophages to treat intracellular Candida glabrata infections. <i>International Journal of Biological Macromolecules</i> , 2018 , 110, 133-139 | 7.9 | 31 |
| 112 | Sequential layer-by-layer electrospinning of nano SrCO ₃ /PRP loaded PHBV fibrous scaffold for bone tissue engineering. <i>Composites Part B: Engineering</i> , 2016 , 99, 445-452 | 10 | 31 |
| 111 | Bio-responsive chitin-poly(L-lactic acid) composite nanogels for liver cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 394-402 | 6 | 31 |

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