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Bioinspired and Biomimetic AgNPs/Gentamicin-Embedded Silk Fibroin Coatings for Robust Antibacterial and Osteogenetic Applications

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#	Paper	IF	Citations
92	A silk-based coating containing GREDVY peptide and heparin on Mg-Zn-Y-Nd alloy: improved corrosion resistance, hemocompatibility and endothelialization. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 966-978	7.3	40
91	Enhanced physical and biological properties of silk fibroin nanofibers by layer-by-layer deposition of chitosan and rectorite. <i>Journal of Colloid and Interface Science</i> , 2018 , 523, 208-216	9.3	63
90	Potential applications of three-dimensional structure of silk fibroin/poly(ester-urethane) urea nanofibrous scaffold in heart valve tissue engineering. <i>Applied Surface Science</i> , 2018 , 447, 269-278	6.7	32
89	A novel antibacterial agent based on AgNPs and FeO loaded chitin microspheres with peroxidase-like activity for synergistic antibacterial activity and wound-healing. <i>International Journal of Pharmaceutics</i> , 2018 , 552, 277-287	6.5	36
88	Construction of Self-defensive Antibacterial and Osteogenic AgNPs/Gentamicin Coatings with Chitosan as Nanovalves for Controlled release. <i>Scientific Reports</i> , 2018 , 8, 13432	4.9	15
87	Preparing and immobilizing antimicrobial osteogenic growth peptide on titanium substrate surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 3021-3033	5.4	7
86	Endowing polyetheretherketone with synergistic bactericidal effects and improved osteogenic ability. <i>Acta Biomaterialia</i> , 2018 , 79, 216-229	10.8	37
85	Modification of Electrical Properties of Silver Nanoparticle. 2018 ,		11
84	Bioinspired carbon quantum dots for sensitive fluorescent detection of vitamin B12 in cell system. <i>Analytica Chimica Acta</i> , 2018 , 1032, 154-162	6.6	45
83	Silver nanomaterials in the natural environment: An overview of their biosynthesis and kinetic behavior. <i>Science of the Total Environment</i> , 2018 , 643, 1325-1336	10.2	9
82	Potential antibacterial mechanism of silver nanoparticles and the optimization of orthopedic implants by advanced modification technologies. <i>International Journal of Nanomedicine</i> , 2018 , 13, 3311-3327	7.3	404
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77	Fabrication of PMPC/PTM/PEGDA micropatterns onto polypropylene films behaving with dual functions of antifouling and antimicrobial activities. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5078-5088	7.3	7
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75	The influence of elastomeric polyurethane type and ratio on the physicochemical properties of electrospun polyurethane/silk fibroin hybrid nanofibers as potential scaffolds for soft and hard tissue engineering. <i>European Polymer Journal</i> , 2019 , 121, 109294	5.2	7
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73	Triple PLGA/PCL Scaffold Modification Including Silver Impregnation, Collagen Coating, and Electrospinning Significantly Improve Biocompatibility, Antimicrobial, and Osteogenic Properties for Orofacial Tissue Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37381-37396	9.5	70
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71	Daptomycin and AgNP co-loaded rGO nanocomposites for specific treatment of Gram-positive bacterial infection in vitro and in vivo. <i>Biomaterials Science</i> , 2019 , 7, 5097-5111	7.4	15
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65	Triple-functional polyetheretherketone surface with enhanced bacteriostasis and anti-inflammatory and osseointegrative properties for implant application. <i>Biomaterials</i> , 2019 , 212, 98-114 ⁶	15.6	84
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