Krishna Pramanik

List of Publications by Year
in descending order

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96	5,065	117571	95218
papers	citations	34 h-index	68 g-index

100	100	100	7321
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Properties and use of jatropha curcas oil and diesel fuel blends in compression ignition engine. Renewable Energy, 2003, 28, 239-248.	4.3	744
2	Antimicrobial activity of iron oxide nanoparticle upon modulation of nanoparticle-bacteria interface. Scientific Reports, 2015, 5, 14813.	1.6	557
3	Immunomodulatory Properties of Mesenchymal Stem Cells: Cytokines and Factors. American Journal of Reproductive Immunology, 2012, 67, 1-8.	1.2	196
4	Calcium alginate-carboxymethyl cellulose beads for colon-targeted drug delivery. International Journal of Biological Macromolecules, 2015, 75, 409-417.	3.6	192
5	Polymers in Mucoadhesive Drug-Delivery Systems: A Brief Note. Designed Monomers and Polymers, 2009, 12, 483-495.	0.7	163
6	Photo-mediated green synthesis of silver and zinc oxide nanoparticles using aqueous extracts of two mangrove plant species, Heritiera fomes and Sonneratia apetala and investigation of their biomedical applications. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 311-318.	1.7	154
7	Preparation and Evaluation of Gelatin-Chitosan-Nanobioglass 3D Porous Scaffold for Bone Tissue Engineering. International Journal of Biomaterials, 2016, 2016, 1-14.	1.1	151
8	Preparation and characterization of novel carbopol based bigels for topical delivery of metronidazole for the treatment of bacterial vaginosis. Materials Science and Engineering C, 2014, 44, 151-158.	3.8	120
9	Guar gum and sesame oil based novel bigels for controlled drug delivery. Colloids and Surfaces B: Biointerfaces, 2014, 123, 582-592.	2.5	119
10	Carboxymethyl cellulose enables silk fibroin nanofibrous scaffold with enhanced biomimetic potential for bone tissue engineering application. Carbohydrate Polymers, 2016, 151, 335-347.	5.1	117
11	Cobalt doped proangiogenic hydroxyapatite for bone tissue engineering application. Materials Science and Engineering C, 2016, 58, 648-658.	3.8	110
12	Targeting Cryopreservation-Induced Cell Death: A Review. Biopreservation and Biobanking, 2014, 12, 23-34.	0.5	95
13	Improving the osteogenic and angiogenic properties of synthetic hydroxyapatite by dual doping of bivalent cobalt and magnesium ion. Ceramics International, 2015, 41, 11323-11333.	2.3	90
14	Myoblast differentiation of human mesenchymal stem cells on graphene oxide and electrospun graphene oxideâ€“polymer composite fibrous meshes: importance of graphene oxide conductivity and dielectric constant on their biocompatibility. Biofabrication, 2015, 7, 015009.	3.7	90
15	Extraction and characterization of biocompatible hydroxyapatite from fresh water fish scales for tissue engineering scaffold. Bioprocess and Biosystems Engineering, 2014, 37, 433-440.	1.7	72
16	Regenerated Silk Fibroin from B. mori Silk Cocoon for Tissue Engineering Applications. International Journal of Environmental Science and Development, 0, , 404-408.	0.2	68
17	Antitumor effect of soybean lectin mediated through reactive oxygen species-dependent pathway. Life Sciences, 2014, 111, 27-35.	2.0	64
18	Chitosan-poly(vinyl alcohol) nanofibers by free surface electrospinning for tissue engineering applications. Tissue Engineering and Regenerative Medicine, 2016, 13, 485-497.	1.6	64

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19	Castor oil and sorbitan monopalmitate based organogel as a probable matrix for controlled drug delivery. Journal of Applied Polymer Science, 2013, 130, 1503-1515.	1.3	62
20	Development and Characterization of Sorbitan Monostearate and Sesame Oil-Based Organogels for Topical Delivery of Antimicrobials. AAPS PharmSciTech, 2015, 16, 293-305.	1.5	59
21	Optimization and evaluation of silk fibroin-chitosan freeze-dried porous scaffolds for cartilage tissue engineering application. Journal of Biomaterials Science, Polymer Edition, 2016, 27, 657-674.	1.9	58
22	Olive oil based novel thermo-reversible emulsion hydrogels for controlled delivery applications. Journal of Materials Science: Materials in Medicine, 2014, 25, 703-721.	1.7	56
23	Development of novel silk fibroin/polyvinyl alcohol/solâ€“gel bioactive glass composite matrix by modified layer by layer electrospinning method for bone tissue construct generation. Biofabrication, 2017, 9, 015028.	3.7	54
24	Osteogenic differentiation of human mesenchymal stem cells in freeze-gelled chitosan/nano Î²-tricalcium phosphate porous scaffolds crosslinked with genipin. Materials Science and Engineering C, 2015, 54, 76-83.	3.8	52
25	Preparation and characterization of gelatin-chitosan-nanoÎ²-TCP based scaffold for orthopaedic application. Materials Science and Engineering C, 2018, 86, 83-94.	3.8	51
26	Preparation and characterization of nanocrystalline hydroxyapatite from egg shell and K2HPO4 solution. Materials Letters, 2013, 97, 148-150.	1.3	50
27	Development of olive oil based organogels using sorbitan monopalmitate and sorbitan monostearate: A comparative study. Journal of Applied Polymer Science, 2013, 129, 793-805.	1.3	49
28	A novel electrospinning approach to fabricate high strength aqueous silk fibroin nanofibers. International Journal of Biological Macromolecules, 2016, 87, 201-207.	3.6	48
29	Sunflowerâ€oilâ€based lecithin organogels as matrices for controlled drug delivery. Journal of Applied Polymer Science, 2013, 129, 585-594.	1.3	46
30	In vitro and in vivo antitumor effects of Peanut agglutinin through induction of apoptotic and autophagic cell death. Food and Chemical Toxicology, 2014, 64, 369-377.	1.8	45
31	Role of the Apoptosis Pathway in Cryopreservation-Induced Cell Death in Mesenchymal Stem Cells Derived from Umbilical Cord Blood. Biopreservation and Biobanking, 2014, 12, 246-254.	0.5	43
32	Effect of Span 60 on the Microstructure, Crystallization Kinetics, and Mechanical Properties of Stearic Acid Oleogels: An Inâ€Depth Analysis. Journal of Food Science, 2016, 81, E380-7.	1.5	43
33	Black tea leaf extract derived Ag nanoparticle-PVA composite film: Structural and dielectric properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1741-1747.	1.7	41
34	Development of novel electrospun nanofibrous scaffold from P. ricini and A. mylitta silk fibroin blend with improved surface and biological properties. Materials Science and Engineering C, 2015, 48, 521-532.	3.8	39
35	Generation of bioactive nano-composite scaffold of nanobioglass/silk fibroin/carboxymethyl cellulose for bone tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 2011-2034.	1.9	38
36	Autophagy protein Ulk1 promotes mitochondrial apoptosis through reactive oxygen species. Free Radical Biology and Medicine, 2015, 89, 311-321.	1.3	35

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37	Ethno-Herbal-Medico in Wound Repair: An Incisive Review. Phytotherapy Research, 2017, 31, 579-590.	2.8	34
38	Silk fibroin coated TiO2 nanotubes for improved osteogenic property of Ti6Al4V bone implants. Materials Science and Engineering C, 2019, 105, 109982.	3.8	34
39	Improvement of multiple stress tolerance in yeast strain by sequential mutagenesis for enhanced bioethanol production. Journal of Bioscience and Bioengineering, 2012, 114, 622-629.	1.1	33
40	Cryopreservation of hMSCs seeded silk nanofibers based tissue engineered constructs. Cryobiology, 2014, 68, 332-342.	0.3	33
41	Evaluation and Optimization of Organic Acid Pretreatment of Cotton Gin Waste for Enzymatic Hydrolysis and Bioethanol Production. Applied Biochemistry and Biotechnology, 2018, 186, 1047-1060.	1.4	33
42	In vitro cartilage construct generation from silk fibroinâ€•chitosan porous scaffold and umbilical cord blood derived human mesenchymal stem cells in dynamic culture condition. Journal of Biomedical Materials Research - Part A, 2018, 106, 397-407.	2.1	32
43	Sunflower Oil and Protein-based Novel Bigels as Matrices for Drug Delivery Applicationsâ€"Characterization andin vitroAntimicrobial Efficiency. Polymer-Plastics Technology and Engineering, 2015, 54, 837-850.	1.9	31
44	Effect of Tween 20 on the Properties of Stearate Oleogels: an inâ€Depth Analysis. JAOCS, Journal of the American Oil Chemists' Society, 2016, 93, 711-719.	0.8	31
45	Interaction of osteoblast -TiO2 nanotubes in vitro: The combinatorial effect of surface topography and other physico-chemical factors governs the cell fate. Applied Surface Science, 2018, 449, 152-165.	3.1	31
46	Bioethanol Production from Ipomoea Carnea Biomass Using a Potential Hybrid Yeast Strain. Applied Biochemistry and Biotechnology, 2013, 171, 771-785.	1.4	30
47	Nickel doped nanohydroxyapatite: vascular endothelial growth factor inducing biomaterial for bone tissue engineering. RSC Advances, 2015, 5, 72515-72528.	1.7	30
48	Development and Characterization of Soy Lecithin and Palm Oil-based Organogels. Polymer-Plastics Technology and Engineering, 2014, 53, 865-879.	1.9	27
49	Effects of micro and nano Î²â€TCP fillers in freezeâ€gelled chitosan scaffolds for bone tissue engineering. Journal of Applied Polymer Science, 2014, 131, .	1.3	27
50	Solubleâ€eggshellâ€membraneâ€proteinâ€modified porous silk fibroin scaffolds with enhanced cell adhesion and proliferation properties. Journal of Applied Polymer Science, 2014, 131, .	1.3	26
51	Fabrication and evaluation of non-mulberry silk fibroin fiber reinforced chitosan based porous composite scaffold for cartilage tissue engineering. Tissue and Cell, 2018, 55, 83-90.	1.0	26
52	Biocompatibility of electrospun graphene oxideâ€"poly(Îµ-caprolactone) fibrous scaffolds with human cord blood mesenchymal stem cells derived skeletal myoblast. Materials Letters, 2014, 126, 109-112.	1.3	25
53	Biological and mechanical evaluation of poly(lactic-co-glycolic acid)-based composites reinforced with 1D, 2D and 3D carbon biomaterials for bone tissue regeneration. Biomedical Materials (Bristol), 2017, 12, 025012.	1.7	25
54	Encapsulation of vegetable organogels for controlled delivery applications. Designed Monomers and Polymers, 2013, 16, 366-376.	0.7	24

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55	Effect of carboxylated graphene nanoplatelets on mechanical and in-vitro biological properties of polyvinyl alcohol nanocomposite scaffolds for bone tissue engineering. Materials Today Communications, 2017, 12, 34-42.	0.9	24
56	Recent Advancement in the Treatment of Cardiovascular Diseases: Conventional Therapy to Nanotechnology. Current Pharmaceutical Design, 2015, 21, 4479-4497.	0.9	24
57	Enhanced chondrogenesis of mesenchymal stem cells over silk fibroin/chitosanâ€chondroitin sulfate three dimensional scaffold in dynamic culture condition. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2576-2587.	1.6	23
58	Improved Bioethanol Production Using Fusants of Saccharomyces cerevisiae and Xylose-Fermenting Yeasts. Applied Biochemistry and Biotechnology, 2012, 167, 873-884.	1.4	22
59	Development and evaluation of cross-linked collagen-hydroxyapatite scaffolds for tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 2031-2044.	1.9	21
60	Coreâ€“shell-type organogelâ€“alginate hybrid microparticles: A controlled delivery vehicle. Chemical Engineering Journal, 2015, 264, 134-145.	6.6	21
61	Development and characterization of gelatin-tamarind gum/carboxymethyl tamarind gum based phase-separated hydrogels: a comparative study. Designed Monomers and Polymers, 2015, 18, 434-450.	0.7	20
62	Directing osteogenesis of stem cells with hydroxyapatite precipitated electrospun eriâ€“tasar silk fibroin nanofibrous scaffold. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1440-1457.	1.9	19
63	Development of a novel glucosamine/silk fibroinâ€“chitosan blend porous scaffold for cartilage tissue engineering applications. Iranian Polymer Journal (English Edition), 2017, 26, 11-19.	1.3	19
64	MgO enables enhanced bioactivity and antimicrobial activity of nano bioglass for bone tissue engineering application. Materials Technology, 2019, 34, 818-826.	1.5	19
65	Enhanced chondrogenic differentiation of human mesenchymal stem cells in silk fibroin/chitosan/glycosaminoglycan scaffolds under dynamic culture condition. Differentiation, 2019, 110, 36-48.	1.0	19
66	Enhanced osteogenic potential of human mesenchymal stem cells on electrospun nanofibrous scaffolds prepared from eriâ€tasar silk fibroin. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 971-982.	1.6	18
67	Chondrogenic differentiation of mesenchymal stem cells on silk fibroin:chitosanâ€“glucosamine scaffold in dynamic culture. Regenerative Medicine, 2018, 13, 545-558.	0.8	18
68	Design of magnesium oxide nanoparticle incorporated carboxy methyl cellulose/poly vinyl alcohol composite film with novel composition for skin tissue engineering. Materials Technology, 2022, 37, 706-716.	1.5	18
69	Preparation, Characterization and Assessment of the Novel Gelatinâ€“tamarind Gum/Carboxymethyl Tamarind Gum-Based Phase-Separated Films for Skin Tissue Engineering Applications. Polymer-Plastics Technology and Engineering, 2017, 56, 141-152.	1.9	17
70	Novel organogel based lyotropic liquid crystal physical gels for controlled delivery applications. European Polymer Journal, 2015, 68, 326-337.	2.6	16
71	Tailoring the in vitro characteristics of poly(vinyl alcohol)-nanohydroxyapatite composite scaffolds for bone tissue engineering. Journal of Polymer Engineering, 2016, 36, 771-784.	0.6	13
72	Molecular docking and interactions of pueraria tuberosa with vascular endothelial growth factor receptors. Indian Journal of Pharmaceutical Sciences, 2015, 77, 439.	1.0	13

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73	Antibacterial activity and biocompatibility of curcumin/TiO₂ nanotube array system on Ti6Al4V bone implants. Materials Technology, 2021, 36, 221-232.	1.5	12
74	Electrospun scaffold for bone regeneration. International Journal of Polymeric Materials and Polymeric Biomaterials, 2022, 71, 842-857.	1.8	12
75	Cryopreservation-Induced Stress on Long-Term Preserved Articular Cartilage. ISRN Tissue Engineering, 2013, 2013, 1-10.	0.5	11
76	Serum-free non-toxic freezing solution for cryopreservation of human adipose tissue-derived mesenchymal stem cells. Biotechnology Letters, 2016, 38, 1397-1404.	1.1	10
77	Synthesis and characterization of novel dual environment-responsive hydrogels of Hydroxyethyl methacrylate and Methyl cellulose. Designed Monomers and Polymers, 2015, 18, 367-377.	0.7	9
78	Evaluation extracellular matrixâ€“chitosan composite films for wound healing application. Journal of Materials Science: Materials in Medicine, 2015, 26, 220.	1.7	9
79	Eggshell Membrane Protein Modified Silk Fibroin-Poly Vinyl Alcohol Scaffold for Bone Tissue Engineering: <i>In Vitro</i> and <i>In Vivo</i> Study. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 32, 69-81.	0.5	9
80	Hydroxyapatite and Hydroxyapatite-Chitosan Composite from Crab Shell. Journal of Biomaterials and Tissue Engineering, 2013, 3, 653-657.	0.0	9
81	Ultrasonication-Assisted Preparation and Characterization of Emulsions and Emulsion Gels for Topical Drug Delivery. Journal of Pharmaceutical Sciences, 2015, 104, 1035-1044.	1.6	8
82	Development of fibrin conjugated chitosan/nano Î²â€TCP composite scaffolds with improved cell supportive property for bone tissue regeneration. Journal of Applied Polymer Science, 2015, 132, .	1.3	8
83	Surface modification and characterisation of natural polymers for orthopaedic tissue engineering: a review. International Journal of Biomedical Engineering and Technology, 2012, 9, 101.	0.2	7
84	Development of mustard oil- and groundnut oil-based span 40 organogels as matrices for controlled drug delivery. Designed Monomers and Polymers, 2014, 17, 545-556.	0.7	7
85	Novel Blowspun Nanobioactive Glass Doped Polycaprolactone/Silk Fibroin Composite Nanofibrous Scaffold with Enhanced Osteogenic Property for Bone Tissue Engineering. Fibers and Polymers, 2018, 19, 2465-2477.	1.1	7
86	Effects of non-toxic cryoprotective agents on the viability of cord blood derived MNCs. Cryo-Letters, 2013, 34, 453-65.	0.1	7
87	Degradation Mechanism and Control of Blended Eri and Tasar Silk Nanofiber. Applied Biochemistry and Biotechnology, 2014, 174, 2403-2412.	1.4	6
88	Bioconversion of Cotton Gin Waste to Bioethanol. Soil Biology, 2015, , 267-288.	0.6	6
89	Evaluating Fungal Mixed Culture for Pretreatment of Cotton Gin Waste to Bioethanol by Enzymatic Hydrolysis and Fermentation Using Co-Culture. Polish Journal of Environmental Studies, 2017, 26, 1215-1223.	0.6	6
90	Improvement of cellular responses of genipin cross-linked chitosan/nano Î² -TCP composite scaffolds by surface modification with fibrin. Biomedical Physics and Engineering Express, 2018, 4, 045034.	0.6	4

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91	Preparation and Characterization of Poly(vinyl alcohol) Based Scaffold Using Improved Salt Leaching Method. Journal of Biomaterials and Tissue Engineering, 2012, 2, 61-66.	0.0	2
92	Aspergillus niser for the study of in vitro drug metabolism. , 2010, , .		1
93	Biomaterials for Tissue Engineered Scaffolds. , 2010, , .		1
94	Cryopreservation in Tissue Engineering: Challenges & Prospects. , 2010, , .		1
95	Natural Polymers: Tissue Engineering. , 0, , 5619-5647.		0
96	Natural Polymers: Tissue Engineering. , 2017, , 1206-1234.		0