Tapas Mitra

List of Publications by Year
in descending order

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27	952	430442	525886
papers	citations	18	27
		h-index	g-index

27	27	27	1600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metal oxide QD based ultrasensitive microsphere fluorescent sensor for copper, chromium and iron ions in water. RSC Advances, 2020, 10, 9512-9524.	1.7	28
2	Nanosensing of Pesticides by Zinc Oxide Quantum Dot: An Optical and Electrochemical Approach for the Detection of Pesticides in Water. Journal of Agricultural and Food Chemistry, 2018, 66, 414-423.	2.4	99
3	Organically modified clay supported chitosan/hydroxyapatite-zinc oxide nanocomposites with enhanced mechanical and biological properties for the application in bone tissue engineering. International Journal of Biological Macromolecules, 2018, 106, 11-19.	3.6	60
4	Mechanical and biological investigations of chitosanâ€“polyvinyl alcohol based ZrO₂ doped porous hybrid composites for bone tissue engineering applications. New Journal of Chemistry, 2017, 41, 7524-7530.	1.4	23
5	Development of bone-like zirconium oxide nanoceramic modified chitosan based porous nanocomposites for biomedical application. International Journal of Biological Macromolecules, 2017, 95, 348-356.	3.6	45
6	Fabrication of porous magnetic nanocomposites for bone tissue engineering. New Journal of Chemistry, 2017, 41, 190-197.	1.4	11
7	Preparation of guar gum scaffold film grafted with ethylenediamine and fish scale collagen, cross-linked with ceftazidime for wound healing application. Carbohydrate Polymers, 2016, 153, 573-581.	5.1	73
8	Multifunctional zirconium oxide doped chitosan based hybrid nanocomposites as bone tissue engineering materials. Carbohydrate Polymers, 2016, 151, 879-888.	5.1	49
9	Synthesis of a carboxymethylated guar gum grafted polyethyleneimine copolymer as an efficient gene delivery vehicle. RSC Advances, 2016, 6, 13730-13741.	1.7	22
10	Development of biomimetic nanocomposites as bone extracellular matrix for human osteoblastic cells. Carbohydrate Polymers, 2016, 141, 82-91.	5.1	16
11	Potential use of curcumin loaded carboxymethylated guar gum grafted gelatin film for biomedical applications. International Journal of Biological Macromolecules, 2015, 75, 437-446.	3.6	76
12	Characterization and evaluation of curcumin loaded guar gum/polyhydroxyalkanoates blend films for wound healing applications. RSC Advances, 2015, 5, 63489-63501.	1.7	46
13	Development of porous and antimicrobial CTSâ€“PEGâ€“HAPâ€“ZnO nano-composites for bone tissue engineering. RSC Advances, 2015, 5, 99385-99393.	1.7	30
14	Curcumin loaded nano graphene oxide reinforced fish scale collagen â€“ a 3D scaffold biomaterial for wound healing applications. RSC Advances, 2015, 5, 98653-98665.	1.7	63
15	Could glutaric acid (GA) replace glutaraldehyde in the preparation of biocompatible biopolymers with high mechanical and thermal properties?. Journal of Chemical Sciences, 2014, 126, 127-140.	0.7	28
16	Exploring the dual role of Î±,Ï‰-di-carboxylic acids in the preparation of collagen based biomaterial. Journal of Porous Materials, 2013, 20, 647-661.	1.3	5
17	Engineering of chitosan and collagen macromolecules using sebacic acid for clinical applications. Progress in Biomaterials, 2013, 2, 11.	1.8	25
18	The Effect of Pimelic Acid Interaction on the Mechanical and Thermal Properties of Chitosan and Collagen. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 572-582.	1.8	18

#	Article	IF	Citations
19	Chromium-assisted immobilization of N-isopropylacrylamide-based methacrylic acid copolymers on collagen and leather surfaces: thermo-responsive behaviour. RSC Advances, 2013, 3, 16626.	1.7	21
20	Studies on Cross-linking of succinic acid with chitosan/collagen. Materials Research, 2013, 16, 755-765.	0.6	69
21	Suberic Acid Acts as a Dissolving Agent as Well as a Crosslinker for Natural Polymers (Carbohydrate) Tj ETQq1 1 0.784314 rgBT /Over Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 619-629.	1.2	6
22	Adipic acid interaction enhances the mechanical and thermal stability of natural polymers. Journal of Applied Polymer Science, 2012, 125, E490.	1.3	14
23	Preparation and characterization of malonic acid cross-linked chitosan and collagen 3D scaffolds: an approach on non-covalent interactions. Journal of Materials Science: Materials in Medicine, 2012, 23, 1309-1321.	1.7	29
24	Preparation and characterization of a thermostable and biodegradable biopolymers using natural cross-linker. International Journal of Biological Macromolecules, 2011, 48, 276-285.	3.6	51
25	Cross-linking with acid chlorides improves thermal and mechanical properties of collagen based biopolymer material. Thermochimica Acta, 2011, 525, 50-55.	1.2	16
26	Bonding interactions and stability assessment of biopolymer material prepared using type III collagen of avian intestine and anionic polysaccharides. Journal of Materials Science: Materials in Medicine, 2011, 22, 1419-1429.	1.7	10
27	Di-carboxylic acid cross-linking interactions improves thermal stability and mechanical strength of reconstituted type I collagen. Journal of Thermal Analysis and Calorimetry, 2011, 105, 325-330.	2.0	19