Jui Chakraborty

List of Publications by Year
in descending order

42 papers	893 citations	471509 17 h-index	501196 28 g-index
42 all docs	42 docs citations	42 times ranked	1270 citing authors

#	Article	IF	Citations
1	Looking into the possibilities of cure of the type 2 diabetes mellitus by nanoparticle-based RNAi and CRISPR-Cas9 system: A review. Journal of Drug Delivery Science and Technology, 2021, 66, 102830.	3.0	5
2	One pot method to synthesize three-dimensional porous hydroxyapatite nanocomposite for bone tissue engineering. Journal of Porous Materials, 2020, 27, 225-235.	2.6	11
3	Synergistic anti-cancer activity of etoposide drug loaded calcium aluminium layered double hydroxide nanoconjugate for possible application in non small cell lung carcinoma. Applied Clay Science, 2020, 188, 105496.	5.2	8
4	Efficacy of Bioactive Glass Nanofibers Tested for Oral Mucosal Regeneration in Rabbits with Induced Diabetes. Materials, 2020, 13, 2603.	2.9	15
5	Prospects of antibacterial bioactive glass nanofibers for wound healing: An in vitro study. International Journal of Applied Glass Science, 2020, 11, 320-328.	2.0	19
6	An in vitro evaluation of the variation in surface characteristics of bioactive glass coated SS316L for load bearing application. Surface and Coatings Technology, 2019, 377, 124849.	4.8	1
7	Three-dimensional cellulose-hydroxyapatite nanocomposite enriched with dexamethasone loaded metalâ€“organic framework: a local drug delivery system for bone tissue engineering. Cellulose, 2019, 26, 7253-7269.	4.9	39
8	Incorporation of shRNA in bioactive glass coated SS316L implant material and its role in inhibition of the osteoclast activity for better post implantation fixation. Journal of Drug Delivery Science and Technology, 2019, 52, 730-737.	3.0	2
9	Intercalation of shRNA-plasmid in Mgâ€“Al layered double hydroxide nanoparticles and its cellular internalization for possible treatment of neurodegenerative diseases. Journal of Drug Delivery Science and Technology, 2019, 52, 500-508.	3.0	8
10	shRNA intercalation in CaAl-LDH nanoparticle synthesized at two different pH conditions and its comparative evaluation. Applied Clay Science, 2019, 171, 57-64.	5.2	9
11	Facile synthesis of carbon fiber reinforced polymer-hydroxyapatite ternary composite: A mechanically strong bioactive bone graft. Materials Science and Engineering C, 2019, 97, 388-396.	7.3	30
12	Determination of half maximal inhibitory concentration of CaAl layered double hydroxide on cancer cells and its role in the apoptotic pathway. Applied Clay Science, 2019, 168, 31-35.	5.2	23
13	<scp>pH</scp>â€dependent facile synthesis of CaAlâ€layered double hydroxides and its effect on the growth inhibition of cancer cells. Journal of the American Ceramic Society, 2018, 101, 3924-3935.	3.8	21
14	Synthesis and characterization of mechanically strong carboxymethyl celluloseâ€“gelatinâ€“hydroxyapatite nanocomposite for load-bearing orthopedic application. Journal of Materials Science, 2018, 53, 230-246.	3.7	32
15	One pot synthesis of carbon dots decorated carboxymethyl cellulose- hydroxyapatite nanocomposite for drug delivery, tissue engineering and Fe3+ ion sensing. Carbohydrate Polymers, 2018, 181, 710-718.	10.2	94
16	siRNA-nanoparticle conjugate in gene silencing: A future cure to deadly diseases?. Materials Science and Engineering C, 2017, 76, 1378-1400.	7.3	23
17	In vivo pharmacological evaluation and efficacy study of methotrexate-encapsulated polymer-coated layered double hydroxide nanoparticles for possible application in the treatment of osteosarcoma. Drug Delivery and Translational Research, 2017, 7, 259-275.	5.8	19
18	One-pot synthesis of CaAl-layered double hydroxideâ€“methotrexate nanohybrid for anticancer application. Bulletin of Materials Science, 2017, 40, 1203-1211.	1.7	24

#	Article	IF	Citations
19	Layered double hydroxide using hydrothermal treatment: morphology evolution, intercalation and release kinetics of diclofenac sodium. Frontiers of Materials Science, 2017, 11, 395-408.	2.2	22
20	Magnesium, zinc and calcium aluminium layered double hydroxide-drug nanohybrids: A comprehensive study. Applied Clay Science, 2017, 135, 493-509.	5.2	64
21	Role of a nitrogenous bisphosphonate (local delivery) incorporated vitreous coating (with/without) Tj ETQq1 1 0.784314 rgBT /Overlock Advances, 2016, 6, 89467-89483.	3.6	6
22	Methotrexate Intercalated CaAl Layered Double Hydroxide Nanohybrid for Drug Delivery. Advanced Science, Engineering and Medicine, 2016, 8, 450-459.	0.3	7
23	Optimization of the process parameters for the fabrication of a polymer coated layered double hydroxide-methotrexate nanohybrid for the possible treatment of osteosarcoma. RSC Advances, 2015, 5, 102574-102592.	3.6	37
24	pH dependent chemical stability and release of methotrexate from a novel nanoceramic carrier. RSC Advances, 2015, 5, 39482-39494.	3.6	38
25	Multifunctional gradient coatings of phosphate-free bioactive glass on SS316L biomedical implant materials for improved fixation. Surface and Coatings Technology, 2014, 240, 437-443.	4.8	9
26	Mgâ€“Al layered double hydroxideâ€“methotrexate nanohybrid drug delivery system: Evaluation of efficacy. Materials Science and Engineering C, 2013, 33, 2168-2174.	7.3	62
27	Determination of trace level carbonate ion in Mgâ€“Al layered double hydroxide: Its significance on the anion exchange behaviour. Journal of Industrial and Engineering Chemistry, 2012, 18, 2211-2216.	5.8	19
28	A facile synthetic strategy for Mgâ€“Al layered double hydroxide material as nanocarrier for methotrexate. Ceramics International, 2012, 38, 941-949.	4.8	49
29	Methotrexate intercalated ZnAl-layered double hydroxide. Journal of Solid State Chemistry, 2011, 184, 2439-2445.	2.9	66
30	Layered double hydroxide: Inorganic organic conjugate nanocarrier for methotrexate. Journal of Physics and Chemistry of Solids, 2011, 72, 779-783.	4.0	25
31	Stepwise formation of crystalline apatite in the biomimetic coating of surgical grade SS 316L substrate: A TEM analysis. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 682-687.	5.3	6
32	Comparative assessment of structural and biological properties of biomimetically coated hydroxyapatite on alumina (Î±â€Al₂O₃) and titanium (Tiâ€6Alâ€4V) alloy substrates. Journal of Biomedical Materials Research - Part A, 2010, 94A, 913-926.	4.0	6
33	Layered Double Hydroxides Based Ceramic Nanocapsules as Reservoir and Carrier of Functional Anions. Transactions of the Indian Ceramic Society, 2010, 69, 153-163.	1.0	12
34	Effect of Process Variations on Anticancerous Drug Intercalation in Ceramic Based Delivery System. Transactions of the Indian Ceramic Society, 2010, 69, 229-234.	1.0	9
35	Bone-like growth of hydroxyapatite in the biomimetic coating of Ti-6Al-4V alloy pretreated with protein at 25 Â°C. Journal of Materials Research, 2009, 24, 2145-2153.	2.6	10
36	Self-assembled structures of hydroxyapatite in the biomimetic coating on a bioinert ceramic substrate. Colloids and Surfaces B: Biointerfaces, 2008, 66, 295-298.	5.0	10

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37	Biomolecular Template-Induced Biomimetic Coating of Hydroxyapatite on an SS 316 L Substrate. Journal of the American Ceramic Society, 2007, 90, 1258-1261.	3.8	26
38	Effect of Albumin on the Growth Characteristics of Hydroxyapatite Coatings on Alumina Substrates. Journal of the American Ceramic Society, 2007, 90, 3360-3363.	3.8	4
39	Interconnected Hydroxyapatite Nanofibers in the Biomimetic Coating of a Bioinert Ceramic Substrate. Journal of the American Ceramic Society, 2007, 90, 3667-3669.	3.8	2
40	Bioceramicsâ€"A New Era. Transactions of the Indian Ceramic Society, 2005, 64, 171-192.	1.0	13
41	Drug Delivery Using Nanosized Layered Double Hydroxide, an Anionic Clay. Key Engineering Materials, 0, 571, 133-167.	0.4	8
42	Development and Validation of RP-HPLC Method for Estimation of Methotrexate Drug Intercalated in Mg-Al Layered Double Hydroxide Nanoparticles. Transactions of the Indian Ceramic Society, 0, , 1-8.	1.0	0