

Jui Chakraborty

List of Publications by Year in descending order

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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	One pot synthesis of carbon dots decorated carboxymethyl cellulose- hydroxyapatite nanocomposite for drug delivery, tissue engineering and Fe ³⁺ ion sensing. Carbohydrate Polymers, 2018, 181, 710-718.	10.2	94
2	Methotrexate intercalated ZnAl-layered double hydroxide. Journal of Solid State Chemistry, 2011, 184, 2439-2445.	2.9	66
3	Magnesium, zinc and calcium aluminium layered double hydroxide-drug nanohybrids: A comprehensive study. Applied Clay Science, 2017, 135, 493-509.	5.2	64
4	Mg-Al layered double hydroxide-methotrexate nanohybrid drug delivery system: Evaluation of efficacy. Materials Science and Engineering C, 2013, 33, 2168-2174.	7.3	62
5	A facile synthetic strategy for Mg-Al layered double hydroxide material as nanocarrier for methotrexate. Ceramics International, 2012, 38, 941-949.	4.8	49
6	Three-dimensional cellulose-hydroxyapatite nanocomposite enriched with dexamethasone loaded metal-organic framework: a local drug delivery system for bone tissue engineering. Cellulose, 2019, 26, 7253-7269.	4.9	39
7	pH dependent chemical stability and release of methotrexate from a novel nanoceramic carrier. RSC Advances, 2015, 5, 39482-39494.	3.6	38
8	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
9	Synthesis and characterization of mechanically strong carboxymethyl cellulose-gelatin-hydroxyapatite nanocomposite for load-bearing orthopedic application. Journal of Materials Science, 2018, 53, 230-246.	3.7	32
10	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
11	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
12	Layered double hydroxide: Inorganic organic conjugate nanocarrier for methotrexate. Journal of Physics and Chemistry of Solids, 2011, 72, 779-783.	4.0	25
13	One-pot synthesis of CaAl-layered double hydroxide-methotrexate nanohybrid for anticancer application. Bulletin of Materials Science, 2017, 40, 1203-1211.	1.7	24
14	siRNA-nanoparticle conjugate in gene silencing: A future cure to deadly diseases?. Materials Science and Engineering C, 2017, 76, 1378-1400.	7.3	23
15	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
16	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
17	pH-dependent facile synthesis of CaAl-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
18	Determination of trace level carbonate ion in Mg-Al layered double hydroxide: Its significance on the anion exchange behaviour. Journal of Industrial and Engineering Chemistry, 2012, 18, 2211-2216.	5.8	19

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19	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
20	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
21	Efficacy of Bioactive Glass Nanofibers Tested for Oral Mucosal Regeneration in Rabbits with Induced Diabetes. Materials, 2020, 13, 2603.	2.9	15
22	Bioceramics—A New Era. Transactions of the Indian Ceramic Society, 2005, 64, 171-192.	1.0	13
23	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
24	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
25	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
26	Bone-like growth of hydroxyapatite in the biomimetic coating of Ti-6Al-4V alloy pretreated with protein at 25 °C. Journal of Materials Research, 2009, 24, 2145-2153.	2.6	10
27	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
28	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
29	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
30	Drug Delivery Using Nanosized Layered Double Hydroxide, an Anionic Clay. Key Engineering Materials, 0, 571, 133-167.	0.4	8
31	Intercalation of shRNA-plasmid in Mg-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
32	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
33	Methotrexate Intercalated CaAl Layered Double Hydroxide Nanohybrid for Drug Delivery. Advanced Science, Engineering and Medicine, 2016, 8, 450-459.	0.3	7
34	Comparative assessment of structural and biological properties of biomimetically coated hydroxyapatite on alumina (Al_2O_3) and titanium (Ti-6Al-4V) alloy substrates. Journal of Biomedical Materials Research - Part A, 2010, 94A, 913-926.	4.0	6
35	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
36	Role of a nitrogenous bisphosphonate (local delivery) incorporated vitreous coating (with/without) Tj ETQqO O rgBT /Overlock 10 Tf 50 Advances, 2016, 6, 89467-89483.	3.6	6

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37	Looking into the possibilities of cure of the type 2 diabetes mellitus by nanoparticle-based RNAi and CRISPR-Cas9 system: A review. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 66, 102830.	3.0	5
38	Effect of Albumin on the Growth Characteristics of Hydroxyapatite Coatings on Alumina Substrates. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3360-3363.	3.8	4
39	Interconnected Hydroxyapatite Nanofibers in the Biomimetic Coating of a Bioinert Ceramic Substrate. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3667-3669.	3.8	2
40	Incorporation of shRNA in bioactive glass coated SS316L implant material and its role in inhibition of the osteoclast activity for better post implantation fixation. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 52, 730-737.	3.0	2
41	An in vitro evaluation of the variation in surface characteristics of bioactive glass coated SS316L for load bearing application. <i>Surface and Coatings Technology</i> , 2019, 377, 124849.	4.8	1
42	Development and Validation of RP-HPLC Method for Estimation of Methotrexate Drug Intercalated in Mg-Al Layered Double Hydroxide Nanoparticles. <i>Transactions of the Indian Ceramic Society</i> , 0, , 1-8.	1.0	0