List of Publications:

Sl. No.	Authors	Title	Publication	Volume	Number	Pages	Year	Publisher
1	Ratha, Itishree; Datta, Pradyot; Reger, Nimu Chand; Das, Himanka; Balla, Vamsi Krishna; Bavya Devi, K.; Roy, Mangal; Nandi, Samit Kumar; Kundu, Biswanath;	In vivo osteogenesis of plasma sprayed ternary-ion doped hydroxyapatite coatings on Ti6Al4V for orthopaedic applications	Ceramics International	48	8	11475-11488	2022	Elsevier
2	Jana, Sonali; Datta, Pradyot; Das, Himanka; Jaiswal, Satish; Ghosh, Prabal Ranjan; Lahiri, Debrupa; Kundu, Biswanath; Nandi, Samit Kumar;	Copper and cobalt doped bioactive glass-fish dermal collagen electrospun mat triggers key events of diabetic wound healing in full-thickness skin defect model	Journal of the Mechanical Behavior of Biomedical Materials (Available Online)				2022	Elsevier
3	Jana, Sonali; Datta, Pradyot; Das, Himanka; Ghosh, Prabal Ranjan; Kundu, Biswanath; Nandi, Samit Kumar;	Engineering vascularizing electrospun dermal grafts by integrating fish collagen and ion-doped bioactive glass	ACS Biomaterials Science and Engineering	8	2	734-752	2022	ACS Publications
4	Gaddam, Vani; Podarala, Veena; Rayaduram Venkata, Suresh Kumar; Mukku, Santhi Lakshmi; Devalam, Raniprameela; Kundu, Biswanath;	Multi-ion-doped nano-hydroxyapatite-coated titanium intramedullary pins for long bone fracture repair in dogs - Clinical evaluation	Journal of Biomedical Materials Research Part B: Applied Biomaterials	110	4	806-816	2022	Wiley

5	Samanta, Aniruddha; Rane, Ramkrishna; Jhala, Ghanshyam; Kundu, Biswanath; Datta, Susmit; Ghosh, Jiten; Joseph, Alphonsa; Mukherjee, Subroto; Roy, Sandipan; Mukhopadhyay, Anoop Kumar;	Biocompatibility and cyclic fatigue response of surface engineered Ti6Al4V femoral heads for hip-implant application	Ceramics International	47	5	6905-6917	2021	Elsevier
6	Roy, Subhasis; Mukherjee, Prasenjit; Das, Pradip Kumar; Ghosh, Prabal Ranjan; Datta, Pradyot; Kundu, Biswanath; Nandi, Samit Kumar;	Local delivery systems of morphogens/biomolecules in orthopedic surgical challenges	Materials Today Communications	27		102424	2021	Elsevier
7	Ratha, Itishree; Datta, Pradyot; Balla, Vamsi Krishna; Nandi, Samit K.; Kundu, Biswanath;	Effect of doping in hydroxyapatite as coating material on biomedical implants by plasma spraying method: A review	Ceramics International	47	4	4426-4445	2021	Elsevier
8	Nayak, Chinmayee; S., Ariharan; Kundu, Biswanath; Singh, Sneha; Kumar, Sri Siva; Balla, Vamsi Krishna; Balani, Kantesh;	Radiation-induced effects on micro-scratch of ultra high molecular weight polyethylene biocomposites	Journal of Materials Research and Technology	11		2277-2293	2021	Elsevier
9	Mahato, Arnab; De, Munmun; Bhattacharjee, Promita; Kumar, Vinod; Mukherjee, Prasenjit; Singh, Gajendra; Kundu, Biswanath; Balla, Vamsi Krishna; Nandi, Samit Kumar;	Role of calcium phosphate and bioactive glass coating on in vivo bone healing of new Mg-Zn-Ca implant	Journal of Materials Science: Materials in Medicine	32		55	2021	Springer

10	Das, Piyali; Rajesh, Kanike; Lalzawmliana, V.; Bavya Devi, K.; Basak, Piyali; Lahiri, Debrupa; Kundu, Biswanath; Roy, Mangal; Nandi, Samit Kumar;	Development and characterization of acellular caprine choncal cartilage matrix for tissue engineering applications	Cartilage	13	2_auppl	1292S-1308S	2021	SAGE Publications
11	Subramanian, Bhuvaneshwaran; Agarwal, Tarun; Roy, Arpita; Kundu, Biswanath; Maiti, Tapas Kumar; Basak, Piyali; Guha, Sujoy Kumar;	Synthesis and characterization of PCL-DA:PEG-DA based polymeric blends grafted with SMA hydrogel as bio-degradable intrauterine contraceptive implant	Materials Science and Engineering: C	116		111159	2020	Elsevier
12	Sharma, Vidushi; Bose, Suryasarathi; Kundu, Biswanath; Bodhak, Subhadip; Das, Mitun; Balla, Vamsi Krishna; Basu, Bikramjit;	Probing the influence of γ-sterilization on the oxidation, crystallization, sliding wear resistance, and cytocompatibility of chemically modified graphene-oxide-reinforced HDPE/ UHMWPE nanocomposites and wear debris	ACS Biomaterials Science and Engineering	6	3	1462-1475	2020	ACS Publications
13	Samanta, Aniruddha; Rane, Ramkrishna; Kundu, Biswanath; Chanda, Dipak Kumar; Ghosh, Jiten; Bysakh, Sandip; Jhala, Ghanshyam; Joseph, Alphonsa; Mukherjee, Subroto; Das, Mitun;	Bio-tribological response of duplex surface engineered SS316L for hip-implant application	Applied Surface Science	507		145009	2020	Elsevier

14	Mahato, Arnab; Sandy, Zhang; Bysakh, Sandip; Hupa, Leena; Das, Indranee; Bhattacharjee, Promita; Kundu, Biswanath; De, Goutam; Nandi, Samit Kumar; Vallittu, Pekka;	Development of nano-porous hydroxyapatite coated e-glass for potential bone-tissue engineering application: An in vitro approach	Materials Science and Engineering: C	111		110764	2020	Elsevier
15	Kundu, Biswanath; Balla, Vamsi Krishna; Muraleedharan, Kuttanellore;	Technology glimpse of bioceramic implants developed by CSIR-CGCRI, Kolkata	Journal of Metallurgy and Materials Science	62	3-4	63-73	2020	CSIR-NML, Jamshedpur
16	Jeyachandran, Praveen; Bontha, Srikanth; Bodhak, Subhadip; Balla, Vamsi Krishna; Kundu, Biswanath; Doddamani, Mrityunjay;	Mechanical behaviour of additively manufactured bioactive glass/ high density polyethylene composites	Journal of the Mechanical Behavior of Biomedical Materials	108		103830	2020	Elsevier
17	Anand, Akrity; Das, Piyali; Nandi, Samit Kumar; Kundu, Biswanath;	Development of antibiotic loaded mesoporous bioactive glass and its drug release kinetics	Ceramics International	46	4	5477-5483	2020	Elsevier
18	Anand, Akrity; Das, Mitun; Kundu, Biswanath; Balla, Vamsi Krishna; Bodhak, Subhadip; Gangadharan, Subbaiyan;	Tribocorrosion characteristics of Ti6Al4V-TiB-TiN in-situ composite coatings prepared using plasma spraying	Journal of Composite Materials	55	14	1935-1946	2020	SAGE Publications
19	Satpathy, Aishwarya; Pal, Aniruddha; Sengupta, Somoshree; Das, Ankita; Hasan, Md. Mahfujul; Ratha, Itishree; Barui, Ananya; Bodhak, Subhadip;	Bioactive nano-hydroxyapatite doped electrospun PVA-chitosan composite nanofibers for bone tissue engineering applications	Journal of the Indian Institute of Science	99		289-302	2019	Springer

20	Dutta, Sourav; Devi, K Bavya; Gupta, Sanjay; Kundu, Biswanath; Balla, Vamsi Krishna; Roy, Mangal;	Mechanical and in vitro degradation behavior of magnesium- • bioactive glass composites prepared by SPS for biomedical applications	Journal of Biomedical Materials Research Part B: Applied Biomaterials	107	2	352-365	2019	Wiley
21	Roy Choudhury, Piyali; Majumdar, Swachchha; Sarkar, Subhendu; Kundu, Biswanath; Sahoo, Ganesh C;	Performance investigation of Pb (II) removal by synthesized hydroxyapatite based ceramic ultrafiltration membrane: Bench scale study	Chemical Engineering Journal	355		510-519	2019	Elsevier
22	Lalzawmliana, V.; Anand, Akrity; Roy, Mangal; Kundu, Biswanath; Nandi, Samit Kumar;	Mesoporous bioactive glasses for bone healing and biomolecules delivery	Materials Science and Engineering: C	106		110180	2019	Elsevier
23	Reger, Nimu Chand; Kundu, Biswanath; Balla, Vamsi Krishna; Bhargava, Anil Kumar;	In vitro cytotoxicity and ion release of multi- • ion doped hydroxyapatite	International Journal of Applied Ceramic Technology	16	2	503-516	2019	Wiley
24	Dutta, Sourav; Devi, K Bavya; Mandal, Santanu; Mahato, Arnab; Gupta, Sanjay; Kundu, Biswanath; Balla, Vamsi Krishna; Roy, Mangal;	In vitro corrosion and cytocompatibility studies of hot press sintered magnesium-bioactive glass composite	Materialia	5		100245	2019	Elsevier
25	Anand, Akrity; Lalzawmliana, V; Kumar, Vinod; Das, Piyali; Devi, K Bavya; Maji, Asit Kumar; Kundu, Biswanath; Roy, Mangal; Nandi, Samit Kumar;	Preparation and in vivo biocompatibility studies of different mesoporous bioactive glasses	Journal of the Mechanical Behavior of Biomedical Materials	89		89-98	2019	Elsevier

26	Khatua, Chandra; Sengupta, Somoshree; Kundu, Biswanath; Bhattacharya, Dipten; Balla, Vamsi Krishna;	Enhanced strength, in vitro bone cell differentiation and mineralization of injectable bone cement reinforced with multiferroic particles	Materials and Design	167		107628	2019	Elsevier
27	Lalzawmliana, V; Anand, Akrity; Kumar, Vinod; Das, Piyali; Devi, K Bavya; Mukherjee, Jayanta; Maji, Asit Kumar; Kundu, Biswanath; Roy, Mangal; Nandi, Samit Kumar;	Potential of growth factor incorporated mesoporous bioactive glass for in vivo bone regeneration	Journal of the Mechanical Behavior of Biomedical Materials	91		182-192	2019	Elsevier
28	Reger, Nimu Chand; Bhargava, Anil Kumar; Ratha, Itishree; Kundu, Biswanath; Balla, Vamsi Krishna;	Structural and phase analysis of multi-ion doped hydroxyapatite for biomedical applications	Ceramics International	45	1	252-263	2019	Elsevier
29	Lalzawmliana, V; Anand, Akrity; Mukherjee, Prasenjit; Chaudhuri, Shubhamitra; Kundu, Biswanath; Nandi, Samit Kumar; Thakur, Narsinh L;	Marine organisms as a source of natural matrix for bone tissue engineering	Ceramics International	45	2	1469-1481	2019	Elsevier
30	Majee, Priyanka; Dhar, Shampa; Mitra, PK; Lalzawmliana, V; Nandi, Samit Kumar; Basak, Piyali; Kundu, Biswanath;	In vivo bone regeneration analysis of trilayer coated 316L stainless steel implant in rabbit model	Journal of Materials Research	33	14	2106-2117	2018	Cambridge University Press
31	Komalakrishna, H; Kumar, Gaurav; Kundu, Biswanath; Mandal, Saumen;	Development of Porous Nano-Hydroxyapatite from Austromegabalanus psittacus Marine Species Using Camphor and Wheat Flour as	Advanced Science Letters	24	2	847-852	2018	American Scientific Publishers

		Pore Formers						
32	Sakthi Prasad, S.; Datta, Susmit; Adarsh, Tarun; Diwan, Prerna; Annapurna, K; Kundu, Biswanath; Biswas, Kaushik;	Effect of boron oxide addition on structural, thermal, in vitro bioactivity and antibacterial properties of bioactive glasses in the base S53P4 composition	Journal of Non-Crystalline Solids	498		204-215	2018	Elsevier
33	Ratha, Itishree; Anand, Akrity; Chatterjee, Sabyasachi; Kundu, Biswanath; Kumar, Gopinatha Suresh;	Preliminary study on effect of nano-hydroxyapatite and mesoporous bioactive glass on DNA	Journal of Materials Research	33	11	1592-1601	2018	Cambridge University Press
34	Khatua, Chandra; Bhattacharya, Dipten; Kundu, Biswanath; Balla, Vamsi Krishna; Bodhak, Subhadip; Goswami, Sudipta;	Multiferroic reinforced bioactive glass composites for bone tissue engineering applications	Advanced Engineering Materials	20	12	1800329	2018	Wiley
35	Samanta, Aniruddha; Bhattacharya, Manjima; Ratha, Itishree; Chakraborty, Himel; Datta, Susmit; Ghosh, Jiten; Bysakh, Sandip; Sreemany, Monjoy; Rane, Ramkrishna; Joseph, Alphonsa;	Nano-and micro-tribological behaviours of plasma nitrided Ti6Al4V alloys	Journal of the Mechanical Behavior of Biomedical Materials	77		267-294	2018	Elsevier
36	Sakthi Prasad, S.; Ratha, Itishree; Adarsh, Tarun; Anand, Akrity; Sinha, Prasanta Kumar; Diwan, Prerna; Annapurna, Kalyandurg; Biswas, Kaushik;	In vitro bioactivity and antibacterial properties of bismuth oxide modified bioactive glasses	Journal of Materials Research	33	2	178-190	2018	Cambridge University Press

37	Khatua, Chandra; Sengupta, Somoshree; Balla, Vamsi Krishna; Kundu, Biswanath; Chakraborti, Ashis; Tripathi, Sudipta;	Dynamics of organic matter decomposition during vermicomposting of banana stem waste using Eisenia fetida	Waste Management	79		287-295	2018	Elsevier
38	Khatua, Chandra; Bodhak, Subhadip; Kundu, Biswanath; Balla, Vamsi Krishna;	In vitro bioactivity and bone mineralization of bismuth ferrite reinforced bioactive glass composites	Materialia	4		361-366	2018	Elsevier
39	Anand, Akrity; Kundu, Biswanath; Balla, Vamsi Krishna; Nandi, Samit Kumar;	Synthesis and physico-chemical characterization of different mesoporous bioactive glass nanopowders: in-vitro SBF activity and cytotoxicity	Transactions of the Indian Ceramic Society	77	2	106-117	2018	Taylor & Francis
40	Begam, Howa; Nandi, Samit Kumar; Kundu, Biswanath; Chanda, Abhijit;	Strategies for delivering bone morphogenetic protein for bone healing	Materials Science and Engineering: C	70		856-869	2017	Elsevier
41	Begam, Howa; Kundu, Biswanath; Chanda, Abhijit; Nandi, Samit Kumar;	MG63 osteoblast cell response on Zn doped hydroxyapatite (HAp) with various surface features	Ceramics International	43	4	3752-3760	2017	Elsevier
42	Begam, Howa; Nandi, Samit Kumar; Chanda, Abhijit; Kundu, Biswanath;	Effect of bone morphogenetic protein on Zn-HAp and Zn-HAp/collagen composite: A systematic in vivo study	Research in veterinary science	115		1-9	2017	Elsevier
43	Komalakrishna, H; Jyoth, TG Shine; Kundu, Biswanath; Mandal, Saumen;	Low temperature development of nano-hydroxyapatite from Austromegabalanus psittacus, Star fish and Sea urchin	Materials Today: Proceedings	4	11	11933-11938	2017	Elsevier

44	Mahato, Arnab; Kundu, Biswanath; Mukherjee, Prasenjit; Nandi, Samit Kumar;	Applications of different bioactive glass and glass-ceramic materials for osteoconductivity and osteoinductivity	Transactions of the Indian Ceramic Society	76	3	149-158	2017	Taylor & Francis
45	Anand, Akrity; Das, Mitun; Kundu, Biswanath; Balla, Vamsi Krishna; Bodhak, Subhadip; Gangadharan, S;	Plasma-sprayed Ti6Al4V alloy composite coatings reinforced with in situ formed TiB-TiN	Journal of Thermal Spray Technology	26	8	2013-2019	2017	Springer
46	Nandi, Samit Kumar; Bandyopadhyay, Samiran; Das, Piyali; Samanta, Indranil; Mukherjee, Prasenjit; Roy, Subhasis; Kundu, Biswanath;	Understanding osteomyelitis and its treatment through local drug delivery system	Biotechnology Advances	34	8	1305-1317	2016	Elsevier
47	Mukherjee, Susmita; Nandi, Samit Kumar; Kundu, Biswanath; Chanda, Abhijit; Sen, Swarnendu; Das, Pradip Kumar;	Enhanced bone regeneration with carbon nanotube reinforced hydroxyapatite in animal model	Journal of the Mechanical Behavior of Biomedical Materials	60		243-255	2016	Elsevier
48	Mistry, Surajit; Roy, Rajiv; Kundu, Biswanath; Datta, Someswar; Kumar, Manoj; Chanda, Abhijit; Kundu, Debabrata;	Clinical outcome of hydroxyapatite coated, bioactive glass coated, and machined Ti6Al4V threaded dental implant in human jaws: a short-term comparative study	Implant Dentistry	25	2	252-260	2016	Wolters Kluwer - Health, Inc.
49	Das, Indranee; Chattopadhyay, Shreyasi; Mahato, Arnab; Kundu, Biswanath; De, Goutam;	Fabrication of a cubic zirconia nanocoating on a titanium dental implant with excellent adhesion, hardness and biocompatibility	RSC Advances	6	64	59030-59038	2016	Royal Society of Chemistry

50	Mistry, Surajit; Roy, Subhasis; Maitra, Nilendu Jyoti; Kundu, Biswanath; Chanda, Abhijit; Datta, Someswar; Joy, Mathew;	A novel, multi-barrier, drug eluting calcium sulfate/biphasic calcium phosphate biodegradable composite bone cement for treatment of experimental MRSA osteomyelitis in rabbit model	Journal of Controlled Release	239		169-181	2016	Elsevier
51	Khan, Pintu Kumar; Mahato, Arnab; Kundu, Biswanath; Nandi, Samit K; Mukherjee, Prasenjit; Datta, Someswar; Sarkar, Soumya; Mukherjee, Jayanta; Nath, Shalini; Balla, Vamsi K;	Influence of single and binary doping of strontium and lithium on in vivo biological properties of bioactive glass scaffolds	Scientific reports	6	1	32964	2016	Nature Publishing Group
52	Maklygina, Yu S; Sharova, AS; Kundu, B; Balla, VK; Steiner, R; Loschenov, VB;	Spectral luminescent properties of bacteriochlorin and aluminum phthalocyanine nanoparticles as hydroxyapatite implant surface coating	Biomedical photonics	5	2	4-12	2016	MDPI
53	Maklygina, YS; Sharova, AS; Kundu, B; Balla, VK; Steiner, R;	Photo-bactericidal Properties of Hydroxyapatite Implant Surface Coating	Bioceramics Development and Applications	6	94	2	2016	Hilaris
54	Ratha, Itishree; Kundu, Biswanath;	Development of hydroxyapatite based modified integrated orbital implant with superior motility	Journal of Biotechnology and Biomaterials	5		281	2015	OMICS Online
55	Nandi, Samit Kumar; Kundu, Biswanath; Mahato, Arnab; Das, Piyali; Mukherjee, Prasenjit;	In vivo performance analysis of snail extract incorporated coralline hydroxyapatite in bone healing	Global Journal of Environmental Sciences and Research	2		45-52	2015	GJESM Publisher

56	Mahato, Arnab; Kundu, Biswanath; Sandy, Zhang; Das, Indranee; Hupa, Leena; De, Goutam; Vallittu, Pekka;	Development of nano-porous hydroxyapatite coated e-glass for potential bone-tissue engineering application: An in vitro approach	Journal of Biotechnology and Biomaterials	5		159	2015	OMICS Online
57	Anand, Akrity; Kundu, Biswanath;	Development and characterization of different mesoporous bioactive glass nanopowders, its in vitro bioactivity and their potential applications as drug delivery system	Journal of Biotechnology and Biomaterials	5		278	2015	OMICS Online
58	Mukherjee, Susmita; Kundu, Biswanath; Chanda, Abhijit; Sen, Swarnendu;	Effect of functionalisation of CNT in the preparation of HApâ€“CNT biocomposites	Ceramics international	41	3	3766-3774	2015	Elsevier
59	Nandi, Samit K; Kundu, Biswanath; Mukherjee, Jayanta; Mahato, Arnab; Datta, Someswar; Balla, Vamsi Krishna;	Converted marine coral hydroxyapatite implants with growth factors: In vivo bone regeneration	Materials science and engineering: C	49		816-823	2015	Elsevier
60	Nandi, Samit K; Kundu, Biswanath; Mahato, Arnab; Thakur, Narsinh L; Joardar, Siddhartha N; Mandal, Biman B;	In vitro and in vivo evaluation of the marine sponge skeleton as a bone mimicking biomaterial	Integrative Biology	7	2	250-262	2015	Oxford University Press
61	Maji, Kanchan; Dasgupta, Sudip; Kundu, Biswanath; Bissoyi, Akalabya;	Development of gelatin-chitosan-hydroxyapatite based bioactive bone scaffold with controlled pore size and mechanical strength	Journal of Biomaterials Science, Polymer Edition	26	16	1190-1209	2015	Taylor & Francis

62	Mukherjee, Susmita; Kundu, Biswanath; Sen, Swarnendu; Chanda, Abhijit;	Improved properties of hydroxyapatiteâ€“carbon nanotube biocomposite: mechanical, in vitro bioactivity and biological studies	Ceramics International	40	4	5635-5643	2014	Elsevier
63	Soundrapandian, Chidambaram; Mahato, Arnab; Kundu, Biswanath; Datta, Someswar; Sa, Biswanath; Basu, Debebrata;	Development and effect of different bioactive silicate glass scaffolds: In vitro evaluation for use as a bone drug delivery system	Journal of the Mechanical Behavior of Biomedical Materials	40		1-12	2014	Elsevier
64	Kundu, Biswanath; Sanyal, Dipayan; Basu, Debabrata;	Physiological and elastic properties of highly porous hydroxyapatite potential for integrated eye implants: Effects of SIRC and L-929 cell lines	Ceramics International	39	3	2651-2664	2013	Elsevier
65	Kundu, Biswanath; Ghosh, Debasree; Sinha, Mithlesh Kumar; Sen, Partha Sarathi; Balla, Vamsi Krishna; Das, Nirmalendu; Basu, Debabrata;	Doxorubicin-intercalated nano-hydroxyapatite drug-delivery system for liver cancer: An animal model	Ceramics International	39	8	9557-9566	2013	Elsevier
66	Nandi, Samit K; Kundu, Biswanath; Basu, Debabrata;	Protein growth factors loaded highly porous chitosan scaffold: a comparison of bone healing properties	Materials Science and Engineering: C	33	3	1267-1275	2013	Elsevier
67	Bhattacharya, Rupnarayan; Kundu, Biswanath; Nandi, Samit Kumar; Basu, Debabrata;	Systematic approach to treat chronic osteomyelitis through localized drug delivery system: bench to bed side	Materials Science and Engineering: C	33	7	3986-3993	2013	Elsevier

68	Kundu, Biswanath; Nandi, Samit Kumar; Roy, Subhasis; Dandapat, Nandadulal; Soundrapandian, Chidambaram; Datta, Someswar; Mukherjee, Prasenjit; Mandal, Tapan Kumar; Dasgupta, Sudip; Basu, Debabrata;	Systematic approach to treat chronic osteomyelitis through ceftriaxoneâ€“sulbactam impregnated porous Î²-tri calcium phosphate localized delivery system	Ceramics International	38	2	1533-1548	2012	Elsevier
69	De, Goutam; Manna, Indranil; Datta, Someswar; Kundu, Debtosh; Karmakar, Basudeb; Paul, Mukul Chandra; Jana, Sunirmal; Kundu, Biswanath;	CSIR-CGCRI: Current nano activities in the area of glass and ceramics materials	Nano Digest	4	4	58-62	2012	https://nanodigest.in/
70	Dey, Arjun; Nandi, Samit Kumar; Kundu, Biswanath; Kumar, Chandrasekhar; Mukherjee, Prasenjit; Roy, Subhasis; Mukhopadhyay, Anoop Kumar; Sinha, Mithlesh Kumar; Basu, Debabrata;	Evaluation of hydroxyapatite and Î²-tri calcium phosphate microplasma spray coated pin intra-medullary for bone repair in a rabbit model	Ceramics International	37	4	1377-1391	2011	Elsevier
71	Ghosh, Samir Kumar; Roy, Sujit Kumar; Kundu, Biswanath; Datta, Someswar; Basu, Debabrata;	Synthesis of nano-sized hydroxyapatite powders through solution combustion route under different reaction conditions	Materials Science and Engineering: B	176	1	14-21	2011	Elsevier

72	Kundu, Biswanath; Nandi, Samit Kumar; Dasgupta, Sudip; Datta, Someswar; Mukherjee, Prasenjit; Roy, Subhasis; Singh, Aruna Kumari; Mandal, Tapan Kumar; Das, Partha; Bhattacharya, Rupnarayan;	Macro-to-micro porous special bioactive glass and ceftriaxone-sulbactam composite drug delivery system for treatment of chronic osteomyelitis: an investigation through in vitro and in vivo animal trial	Journal of Materials Science: Materials in Medicine	22	3	705-720	2011	Springer
73	Chakraborty, Abhijit; Kundu, Biswanath; Basu, Debabrata; Pal, Tamal Kanti; Nandi, Samit Kumar;	In vivo bone response and interfacial properties of titanium-alloy implant with different designs in rabbit model with time	Indian Journal of Dental Research	22	2	277	2011	Wolters Kluwer - Medknow
74	Begam, Howa; Chanda, Abhijit; Kundu, Biswanath;	fabrication of fine grained dense HAP through slip casting route	International Journal of Engineering Science and Technology	3	2	1258-1265	2011	Engg Journals Publications
75	Begam, Howa; Chanda, Abhijit; Kundu, Biswanath;	Development of nano-grained Calcium Hy-droxyapatite using slip casting technique	International Journal of Scientific and Engineering Research	2		19-25	2011	https://www.ijser.org/
76	Nandi, SK; Roy, Samudra; Mukherjee, P; Kundu, Biswanath; De, DK; Basu, Debabrata;	Orthopaedic applications of bone graft & graft substitutes: a review	Indian Journal of Medical Research	132	1	15-30	2010	Wolters Kluwer - Medknow
77	Kundu, Biswanath; Lemos, Alexandra; Soundrapandian, Chidambaram; Sen, Partha Sarathi; Datta, Someswar; Ferreira, Jose Maria Ferreira; Basu, Debabrata;	Development of porous HAp and beta-TCP scaffolds by starch consolidation with foaming method and drug-chitosan bilayered scaffold based drug delivery system	Journal of Materials Science: Materials in Medicine	21	11	2955-2969	2010	Springer

78	Kundu, Biswanath; Soundrapandian, Chidambaram; Nandi, Samit Kumar; Mukherjee, Prasenjit; Dandapat, Nandadulal; Roy, Subhasis; Datta, Bakul K; Mandal, Tapan Kumar; Basu, Debabrata; Bhattacharya, Rupnarayan;	Development of new localized drug delivery system based on ceftriaxone-sulbactam composite drug impregnated porous hydroxyapatite: a systematic approach for in vitro and in vivo animal trial	Pharmaceutical Research	27	8	1659-1676	2010	Springer
79	Soundrapandian, Chidambaram; Datta, Someswar; Kundu, Biswanath; Basu, Debabrata; Sa, Biswanath;	Porous bioactive glass scaffolds for local drug delivery in osteomyelitis: development and in vitro characterization	AAPS Pharmscitech	11	4	1675-1683	2010	Springer
80	Nandi, Samit Kumar; Mukherjee, Prasenjit; Roy, Subhasis; Kundu, Biswanath; De, Dipak Kumar; Basu, Debabrata;	Local antibiotic delivery systems for the treatment of osteomyelitis - A review	Materials Science and Engineering: C	29	8	2478-2485	2009	Elsevier
81	Nandi, Samit Kumar; Kundu, Biswanath; Datta, Someswar; De, Dipak Kumar; Basu, Debabrata;	The repair of segmental bone defects with porous bioglass: an experimental study in goat	Research in veterinary science	86	1	162-173	2009	Elsevier
82	Nandi, Samit Kumar; Kundu, Biswanath; Ghosh, Samir K; Mandal, Tapan Kumar; Datta, Someswar; De, Dipak K; Basu, Debabrata;	Cefuroxime-impregnated calcium phosphates as an implantable delivery system in experimental osteomyelitis	Ceramics International	35	4	1367-1376	2009	Elsevier
83	Nandi, Samit Kumar; Kundu, Biswanath; Mukherjee, Prasenjit; Mandal, Tapan K; Datta, Someswar; De, Dipak K; Basu, Debabrata;	In vitro and in vivo release of cefuroxime axetil from bioactive glass as an implantable delivery system in experimental osteomyelitis	Ceramics International	35	8	3207-3216	2009	Elsevier

84	Nandi, Samit Kumar; Kundu, Biswanath; Ghosh, Samir Kumar; De, Dipak Kumar; Basu, Debabrata;	Efficacy of nano-hydroxyapatite prepared by an aqueous solution combustion technique in healing bone defects of goat	Journal of veterinary science	9	2	183-191	2008	Korean Society of Veterinary Science
85	Nandi, Samit K; Ghosh, Samir K; Kundu, Biswanath; De, Dipak Kumar; Basu, Debabrata;	Evaluation of new porous beta-tri-calcium phosphate ceramic as bone substitute in goat model	Small Ruminant Research	75		144-153	2008	Elsevier
86	Ghosh, Samir Kumar; Nandi, Samit Kumar; Kundu, Biswanath; Datta, Someswar; De, Dipak Kumar; Roy, Sujit Kumar; Basu, Debabrata;	Interfacial response of hydroxyapatite and tri-calcium phosphate prepared by a novel aqueous combustion method: A comparison with bioglass in vivo implanted in goat	Journal of Biomedical Materials Research Part B: Applied Biomaterials	86		217-227	2008	Wiley
87	Kundu, Biswanath; Sinha, Mithlesh K; Mitra, Santanu; Basu, Debabrata;	Synthetic hydroxyapatite-based integrated orbital implants: a human pilot trial	Indian Journal of Ophthalmology	53	4	235-241	2005	Wolters Kluwer - Medknow
88	Kundu, Biswanath; Basu, Debabrata;	Ceramics for biomedical applications-an insight	Science and Culture	71		144-158	2005	Indian Science News Association
89	Kundu, Biswanath; Sinha, Mithlesh Kumar; Mitra, Manoj Kumar; Basu, Debabrata;	Fabrication and characterization of porous hydroxyapatite ocular implant followed by anin vivo study in dogs	Bulletin of Materials Science	27	2	133-140	2004	Springer
90	Kundu, Biswanath; Sinha, Mithlesh Kumar; Basu, Debabrata;	Development of bio-active integrated ocular implant for anophthalmic human patients	Trends in Biomaterials and Artificial Organs	16	1	1-4	2002	SBIOI

List of Book Chapters:

1. H. Begam, S. Roy, P. Mukherjee, A. Chanda, **B. Kundu**, S.K. Nandi, Bone morphogenetic proteins and bioceramic scaffolds in orthopedics, Springer2021. (Under Review)
2. A. Anand, **B. Kundu**, S.K. Nandi, Mesoporous bioactive glass for bone tissue regeneration and drug delivery, in: S. Jana (Ed.) Nanoengineering of Biomaterials, Wiley-VCH Verlag GmbH & Co., KGaA, Weinheim, 2021. (Under Review)
3. P. Barua, A. Mahato, P. Datta, S.K. Nandi, R. Sen, **B. Kundu**, Fiber-nano bio-compositions for cranioplasty and other orthopaedic applications, in: B. Han, S. Sharma, T.A. Nguyen, K. Subrahmanya Bhat, L. Longbiao (Eds.) Fiber-Reinforced Nanocomposites: Fundamentals and Applications, Elsevier, Amsterdam, Netherlands, 2020, pp. 525-558.
4. V.K. Balla, S. Bodhak, P. Datta, **B. Kundu**, M. Das, A. Bandyopadhyay, S. Bose, Biointegration of three dimensional - printed biomaterials and biomedical devices, in: C.P. Sharma (Ed.) Biointegration of Medical Implant Materials, Woodhead Publishing, Elsevier, Duxford, U. K., 2020, pp. 433-482.
5. S.K. Nandi, A. Mahato, **B. Kundu**, P. Mukherjee, Organic-inorganic micro/nanofiber composites for biomedical applications, in: V. Grumezescu, A.M. Grumezescu (Eds.) Materials for Biomedical Engineering: Biopolymer Fibers, Elsevier, Bucharest, Romania, 2019, pp. 21-55.
6. V. Lalzawmliana, P. Mukherjee, **B. Kundu**, S.K. Nandi, Clinical application of biomimetic marine-derived materials for tissue engineering, in: A. Choi, B. Ben-Nissan (Eds.) Marine-Derived Biomaterials for Tissue Engineering Applications, Springer Series in Biomaterials Science and Engineering, Singapore, 2019, pp. 329-356.
7. A. Mahato, **B. Kundu**, Bioactive glass based composites for cranioplasty implants, in: G. Kaur (Ed.) Clinical Applications of Biomaterials: State-of-the-Art Progress, Trends, and Novel Approaches, Springer, Gewerbestrasse, Switzerland, 2017, pp. 337-356.
8. S.K. Nandi, A. Mahato, **B. Kundu**, P. Mukherjee, Doped bioactive glass materials in bone regeneration, in: A.R. Zorzi, J.B. de Miranda (Eds.) Advanced Techniques in Bone Regeneration, InTech Open, Rijeka, Croatia, 2016, pp. 275.
9. V.K. Balla, M. Das, S. Datta, **B. Kundu**, Articulating biomaterials: Surface engineering, tribology and biocompatibility, in: R. Tyagi, J.P. Davim (Eds.) Processing Techniques and Tribological Behavior of Composite Materials, IGI Global, Hershey, PA, 2015, pp. 218-267.
10. S.K. Nandi, **B. Kundu**, S. Datta, Development and applications of varieties of bioactive glass compositions in dental surgery, third generation tissue engineering, orthopaedic surgery and as drug delivery system, in: R. Pignatello (Ed.) Biomaterials Applications for Nanomedicine, InTech, Rijeka, Croatia, 2011, pp. 69-116.
11. S.K. Nandi, **B. Kundu**, D. Basu, R. Bhattacharya, Recent advancement of ceramics in biomedical research, in: L.V. Berhardt (Ed.) Advances in Medicine and Biology. Volume 27, Nova Science Publishers, NY, USA, 2011, pp. 1-85.