

# Indranil Banerjee

## List of Publications by Year in descending order

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84  
papers

3,149  
citations

136950

32  
h-index

168389

53  
g-index

84  
all docs

84  
docs citations

84  
times ranked

4292  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium alginate-carboxymethyl cellulose beads for colon-targeted drug delivery. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 409-417.	7.5	192
2	Mesoporous silica nanoparticle based enzyme responsive system for colon specific drug delivery through guar gum capping. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 352-361.	5.0	151
3	Stearic acid based oleogels: A study on the molecular, thermal and mechanical properties. <i>Materials Science and Engineering C</i> , 2015, 48, 688-699.	7.3	121
4	Preparation and characterization of novel carbopol based bigels for topical delivery of metronidazole for the treatment of bacterial vaginosis. <i>Materials Science and Engineering C</i> , 2014, 44, 151-158.	7.3	120
5	Guar gum and sesame oil based novel bigels for controlled drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 582-592.	5.0	119
6	Folate receptor targeted, carboxymethyl chitosan functionalized iron oxide nanoparticles: a novel ultradispersed nanoconjugates for bimodal imaging. <i>Nanoscale</i> , 2011, 3, 1653.	5.6	115
7	Cobalt doped proangiogenic hydroxyapatite for bone tissue engineering application. <i>Materials Science and Engineering C</i> , 2016, 58, 648-658.	7.3	110
8	Organogels as Matrices for Controlled Drug Delivery: A Review on the Current State. <i>Soft Materials</i> , 2014, 12, 47-72.	1.7	104
9	Gelatin/Carboxymethyl chitosan based scaffolds for dermal tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1499-1506.	7.5	104
10	Enzymatically crosslinked carboxymethyl chitosan/gelatin/nano-hydroxyapatite injectable gels for in situ bone tissue engineering application. <i>Materials Science and Engineering C</i> , 2011, 31, 1295-1304.	7.3	103
11	Improving the osteogenic and angiogenic properties of synthetic hydroxyapatite by dual doping of bivalent cobalt and magnesium ion. <i>Ceramics International</i> , 2015, 41, 11323-11333.	4.8	90
12	Stearate organogel-gelatin hydrogel based bigels: Physicochemical, thermal, mechanical characterizations and in vitro drug delivery applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 43, 1-17.	3.1	87
13	Inflammatory system gene polymorphism and the risk of stroke: A case-control study in an Indian population. <i>Brain Research Bulletin</i> , 2008, 75, 158-165.	3.0	82
14	Association of gene polymorphism with genetic susceptibility to stroke in Asian populations: a meta-analysis. <i>Journal of Human Genetics</i> , 2007, 52, 205-219.	2.3	77
15	Carrageenan: A Wonder Polymer from Marine Algae for Potential Drug Delivery Applications. <i>Current Pharmaceutical Design</i> , 2019, 25, 1172-1186.	1.9	62
16	Physical and mechanical properties of sunflower oil and synthetic polymers based bigels for the delivery of nitroimidazole antibiotic – A therapeutic approach for controlled drug delivery. <i>European Polymer Journal</i> , 2015, 64, 253-264.	5.4	55
17	Characterization of gelatin-agar based phase separated hydrogel, emulgel and bigel: a comparative study. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 118.	3.6	49
18	Association between inflammatory gene polymorphisms and coronary artery disease in an Indian population. <i>Journal of Thrombosis and Thrombolysis</i> , 2009, 27, 88-94.	2.1	47

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19	Sustained release of antibiotic from polyurethane coated implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 213-221.	3.6	46
20	Wound pH-Responsive Sustained Release of Therapeutics from a Poly(NIPAAm-co-AAc) Hydrogel. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 111-132.	3.5	46
21	Effect of Span 60 on the Microstructure, Crystallization Kinetics, and Mechanical Properties of Stearic Acid Oleogels: An In-Depth Analysis. <i>Journal of Food Science</i> , 2016, 81, E380-7.	3.1	43
22	Synthesis and characterization of polyvinyl alcohol- carboxymethyl tamarind gum based composite films. <i>Carbohydrate Polymers</i> , 2017, 165, 159-168.	10.2	43
23	Gum tragacanth-“alginate beads as proangiogenic” osteogenic cell encapsulation systems for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4177-4189.	5.8	43
24	Silanization improves biocompatibility of graphene oxide. <i>Materials Science and Engineering C</i> , 2020, 110, 110647.	7.3	41
25	Development of phosphonate modified Fe(1-x)MnxFe2O4 mixed ferrite nanoparticles: Novel peroxidase mimetics in enzyme linked immunosorbent assay. <i>Talanta</i> , 2011, 86, 337-348.	5.5	39
26	Development and characterization of gelatin-based hydrogels, emulsion hydrogels, and bigels: A comparative study. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	39
27	Alginate Bead Based Hexagonal Close Packed 3D Implant for Bone Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32132-32145.	8.0	37
28	NIR-Light-Active ZnO-Based Nanohybrids for Bacterial Biofilm Treatment. <i>ACS Omega</i> , 2018, 3, 10877-10885.	3.5	37
29	PLGA Microspheres Incorporated Gelatin Scaffold: Microspheres Modulate Scaffold Properties. <i>International Journal of Biomaterials</i> , 2009, 2009, 1-9.	2.4	36
30	Magnetic nanoparticle incorporated oleogel as iontophoretic drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 118-129.	5.0	34
31	Caprine (Goat) Collagen: A Potential Biomaterial for Skin Tissue Engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 355-373.	3.5	33
32	Reinforcing effect of graphene oxide reinforcement on the properties of poly (vinyl alcohol) and carboxymethyl tamarind gum based phase-separated film. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 81, 61-71.	3.1	33
33	Anionic Dinuclear Oxidovanadium(IV) Complexes with Azo Functionalized Tridentate Ligands and 1/4-Ethoxido Bridge Leading to an Unsymmetric Twisted Arrangement: Synthesis, X-ray Structure, Magnetic Properties, and Cytotoxicity. <i>Inorganic Chemistry</i> , 2018, 57, 5767-5781.	4.0	33
34	Effect of mechanical and electrical behavior of gelatin hydrogels on drug release and cell proliferation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 53, 174-186.	3.1	32
35	Effect of Tween 20 on the Properties of Stearate Oleogels: an In-Depth Analysis. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2016, 93, 711-719.	1.9	31
36	Photo-triggered destabilization of nanoscopic vehicles by dihydroindolizine for enhanced anticancer drug delivery in cervical carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 202-211.	5.0	31

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37	Synthesis, characterization, and in vitro biological evaluation of highly stable diversely functionalized superparamagnetic iron oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4173-4188.	1.9	30
38	Nickel doped nanohydroxyapatite: vascular endothelial growth factor inducing biomaterial for bone tissue engineering. <i>RSC Advances</i> , 2015, 5, 72515-72528.	3.6	30
39	Cobalt doped nano-hydroxyapatite incorporated gum tragacanth-alginate beads as angiogenic-osteogenic cell encapsulation system for mesenchymal stem cell based bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 101-115.	7.5	30
40	Synthesis, structure and cytotoxicity of a series of Dioxidomolybdenum(VI) complexes featuring Salan ligands. <i>Journal of Inorganic Biochemistry</i> , 2017, 172, 110-121.	3.5	28
41	Synthesis of novel poly (vinyl alcohol)/tamarind gum/bentonite-based composite films for drug delivery applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 613, 126043.	4.7	28
42	Development of soy lecithin based novel self-assembled emulsion hydrogels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 55, 250-263.	3.1	27
43	Development and physicochemical characterization of doxorubicin-encapsulated hydroxyapatite-polyvinyl alcohol nanocomposite for repair of osteosarcoma-affected bone tissues. <i>Comptes Rendus Chimie</i> , 2019, 22, 46-57.	0.5	26
44	Biological and mechanical evaluation of poly(lactic-co-glycolic acid)-based composites reinforced with 1D, 2D and 3D carbon biomaterials for bone tissue regeneration. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 025012.	3.3	25
45	Encapsulation of vegetable organogels for controlled delivery applications. <i>Designed Monomers and Polymers</i> , 2013, 16, 366-376.	1.6	24
46	Substrate stiffness does affect the fate of human keratinocytes. <i>RSC Advances</i> , 2016, 6, 3539-3551.	3.6	23
47	Green synthesized amino-PEGylated silver decorated graphene nanoplatform as a tumor-targeted controlled drug delivery system. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	23
48	Reinforcing the inner phase of the filled hydrogels with CNTs alters drug release properties and human keratinocyte morphology: A study on the gelatin- tamarind gum filled hydrogels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 538-548.	3.1	22
49	Core-shell-type organogel-alginate hybrid microparticles: A controlled delivery vehicle. <i>Chemical Engineering Journal</i> , 2015, 264, 134-145.	12.7	21
50	Development and characterization of gelatin-tamarind gum/carboxymethyl tamarind gum based phase-separated hydrogels: a comparative study. <i>Designed Monomers and Polymers</i> , 2015, 18, 434-450.	1.6	20
51	White-light-emitting NaYF <sub>4</sub> Nanoplatform for NIR Upconversion-mediated Photodynamic Therapy and Bioimaging. <i>ChemNanoMat</i> , 2018, 4, 583-595.	2.8	20
52	Effect of Biodegradable Hydrophilic and Hydrophobic Emulsifiers on the Oleogels Containing Sunflower Wax and Sunflower Oil. <i>Gels</i> , 2021, 7, 133.	4.5	20
53	Preparation, Characterization and Assessment of the Novel Gelatin-tamarind Gum/Carboxymethyl Tamarind Gum-Based Phase-Separated Films for Skin Tissue Engineering Applications. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 141-152.	1.9	17
54	Keratinocytes are mechanoresponsive to the microflow-induced shear stress. <i>Cytoskeleton</i> , 2019, 76, 209-218.	2.0	17

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55	Novel organogel based lyotropic liquid crystal physical gels for controlled delivery applications. <i>European Polymer Journal</i> , 2015, 68, 326-337.	5.4	16
56	Doxorubicin Loaded Green Synthesized Nanoceria Decorated Functionalized Graphene Nanocomposite for Cancer-Specific Drug Release. <i>Journal of Cluster Science</i> , 2019, 30, 1565-1582.	3.3	16
57	Upconversion nanoparticle incorporated oleogel as probable skin tissue imaging agent. <i>Chemical Engineering Journal</i> , 2020, 379, 122272.	12.7	16
58	Recent Progress in Red Blood Cells-Derived Particles as Novel Bioinspired Drug Delivery Systems: Challenges and Strategies for Clinical Translation. <i>Frontiers in Chemistry</i> , 2022, 10, 905256.	3.6	16
59	Stimulation of murine B and T lymphocytes by native and heat-denatured Abrus agglutinin. <i>Immunobiology</i> , 2009, 214, 227-234.	1.9	13
60	Molecular docking and interactions of pueraria tuberosa with vascular endothelial growth factor receptors. <i>Indian Journal of Pharmaceutical Sciences</i> , 2015, 77, 439.	1.0	13
61	Near-Infrared Light Activatable Two-Dimensional Nanomaterials for Theranostic Applications: A Comprehensive Review. <i>ACS Applied Nano Materials</i> , 2022, 5, 1719-1733.	5.0	13
62	Groundnut oil based emulsion gels for passive and iontophoretic delivery of therapeutics. <i>Designed Monomers and Polymers</i> , 2016, 19, 297-308.	1.6	12
63	Gelatin and amylopectin-based phase-separated hydrogels: An in-depth analysis of the swelling, mechanical, electrical and drug release properties. <i>Iranian Polymer Journal (English Edition)</i> , 2016, 25, 799-810.	2.4	11
64	Understanding the Effect of Tamarind Gum Proportion on the Properties of Tamarind Gum-Based Hydroethanolic Physical Hydrogels. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 540-547.	1.9	10
65	Graphene oxide reinforced nanocomposite oleogels improves corneal permeation of drugs. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 60, 102024.	3.0	10
66	Analysis of heart rate variability to understand the effect of cannabis consumption on Indian male paddy-field workers. <i>Biomedical Signal Processing and Control</i> , 2020, 62, 102072.	5.7	10
67	Gum tragacanth modified nano-hydroxyapatite: An angiogenic- osteogenic biomaterial for bone tissue engineering. <i>Ceramics International</i> , 2022, 48, 14672-14683.	4.8	10
68	Synthesis and characterization of novel dual environment-responsive hydrogels of Hydroxyethyl methacrylate and Methyl cellulose. <i>Designed Monomers and Polymers</i> , 2015, 18, 367-377.	1.6	9
69	Evaluation extracellular matrix-chitosan composite films for wound healing application. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 220.	3.6	9
70	Eggshell Membrane Protein Modified Silk Fibroin-Poly Vinyl Alcohol Scaffold for Bone Tissue Engineering: <i>In Vitro</i> and <i>In Vivo</i> Study. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 0, 32, 69-81.	0.5	9
71	Oleogels Based on Palmitic Acid and Safflower Oil: Novel Formulations for Ocular Drug Delivery of Voriconazole. <i>European Journal of Lipid Science and Technology</i> , 2020, 122, 1900288.	1.5	8
72	Synthesis and Assessment of Novel Gelatin-Chitosan Lactate Cohydrogels for Controlled Delivery and Tissue Engineering Applications. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 1457-1467.	1.9	7

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73	Effect of addition of B2O3 to the sol-gel synthesized 45S5 bioglass. Journal of the Australian Ceramic Society, 2020, 56, 1309-1322.	1.9	7
74	An Insight on the Swelling, Viscoelastic, Electrical, and Drug Release Properties of Gelatinâ€“Carboxymethyl Chitosan Hydrogels. Polymer-Plastics Technology and Engineering, 2018, 57, 404-416.	1.9	6
75	Osteoblastâ€“Derived Giant Plasma Membrane Vesicles Induce Osteogenic Differentiation of Human Mesenchymal Stem Cells. Advanced Biology, 2018, 2, 1800093.	3.0	6
76	Iontophoretic drug delivery systems. , 2019, , 393-420.		5
77	Graphene Oxide Increases Corneal Permeation of Ciprofloxacin Hydrochloride from Oleogels: A Study with Cocoa Butter-Based Oleogels. Gels, 2020, 6, 43.	4.5	5
78	Rareâ€“Earthâ€“Doped SiO <sub>2</sub> â€“CaF <sub>2</sub> glass ceramic nanoâ€“particle with upconversion properties. International Journal of Applied Ceramic Technology, 2018, 15, 223-231.	2.1	4
79	Up-conversion study of CaF <sub>2</sub> based oxy-fluoride core-shell particulate nano-glass ceramics via sol-gel method: Effect of Yb <sup>3+</sup> concentration and cell viability study. Optik, 2020, 222, 165304.	2.9	4
80	Facile transdermal delivery of upconversion nanoparticle by iontophoresis-responsive magneto-upconversion oleogel. Nano Express, 2020, 1, 010012.	2.4	4
81	Finger movement based attender calling system for ICU patient management and rehabilitation. , 2014, , .		3
82	Effect of Polysaccharides on the Properties of the Mucoadhesive Poly(Vinyl Alcohol) Multicoreâ€“Shell Microparticles. Polymer-Plastics Technology and Engineering, 2016, 55, 879-888.	1.9	1
83	Designing of a dual channel impedance analyzer for biological measurements. , 2014, , .		0
84	Wireless speech control system for robotic arm. International Journal of Biomedical Engineering and Technology, 2019, 30, 344.	0.2	0