

Alok R Ray

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

2,492
citations

26
h-index

49
g-index

64
ext. papers

2,699
ext. citations

4.3
avg, IF

4.92
L-index

#	Paper	IF	Citations
64	Bioprintable, cell-laden silk fibroin-gelatin hydrogel supporting multilineage differentiation of stem cells for fabrication of three-dimensional tissue constructs. <i>Acta Biomaterialia</i> , 2015 , 11, 233-46	10.8	382
63	Biomedical Applications of Chitin, Chitosan, and Their Derivatives. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2000 , 40, 69-83		185
62	Three-dimensional chitosan scaffold-based MCF-7 cell culture for the determination of the cytotoxicity of tamoxifen. <i>Biomaterials</i> , 2005 , 26, 979-86	15.6	162
61	Controlled Delivery of Drugs from Alginate Matrix. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2003 , 43, 187-221		143
60	Preparation of scaffolds from human hair proteins for tissue-engineering applications. <i>Biomedical Materials (Bristol)</i> , 2008 , 3, 025007	3.5	128
59	Graft copolymerization of 2-hydroxyethylmethacrylate onto chitosan films and their blood compatibility. <i>Journal of Applied Polymer Science</i> , 1994 , 53, 1115-1121	2.9	122
58	Development of a new polypropylene-based suture: plasma grafting, surface treatment, characterization, and biocompatibility studies. <i>Macromolecular Bioscience</i> , 2011 , 11, 373-82	5.5	81
57	A convenient route for the synthesis of hydroxyapatite through a novel microwave-mediated metathesis reaction. <i>Materials Letters</i> , 2004 , 58, 3610-3612	3.3	78
56	The role of 3D structure and protein conformation on the innate and adaptive immune responses to silk-based biomaterials. <i>Biomaterials</i> , 2013 , 34, 8161-71	15.6	73
55	Radiation-induced grafting of N,N'-dimethylaminoethylmethacrylate onto chitosan films. <i>Journal of Applied Polymer Science</i> , 1997 , 66, 869-877	2.9	63
54	Oriented lamellar silk fibrous scaffolds to drive cartilage matrix orientation: towards annulus fibrosus tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 3313-25	10.8	59
53	Polyhydroxybutyrate, Its Copolymers and Blends. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1995 , 35, 327-359		57
52	Eudragit S-100 entrapped chitosan microspheres of valdecoxib for colon cancer. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 2691-9	4.5	52
51	Soluplus--solubilized citrated camptothecin--a potential drug delivery strategy in colon cancer. <i>AAPS PharmSciTech</i> , 2012 , 13, 59-66	3.9	48
50	Formulation, characterization and evaluation of rotavirus encapsulated PLA and PLGA particles for oral vaccination. <i>Journal of Microencapsulation</i> , 2009 , 26, 154-65	3.4	48
49	Viscoelastic properties correlations to morphological and mechanical response of HDPE/UHMWPE blends. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	43
48	Preparation and characterization of alginate and hydroxyapatite-based biocomposite. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 5162-5165	2.9	40

47	Biomimetic oxidation of l-arginine with hydrogen peroxide catalyzed by the resin-supported iron (III) porphyrin. <i>Journal of Molecular Catalysis A</i> , 2007 , 266, 207-214		39
46	Fabrication of agar-gelatin hybrid scaffolds using a novel entrapment method for in vitro tissue engineering applications. <i>Biotechnology and Bioengineering</i> , 2007 , 96, 392-400	4.9	38
45	Preparation of poly(ε-caprolactone)/poly(ε-caprolactone-co-lactide) (PCL/PLCL) blend filament by melt spinning. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 1944-1950	2.9	37
44	Chitosan immobilization on polyacrylic acid grafted polypropylene monofilament. <i>Carbohydrate Polymers</i> , 2010 , 82, 1315-1322	10.3	35
43	Gelatin - Oxidized carboxymethyl cellulose blend based tubular electrospun scaffold for vascular tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 1922-1935	7.9	34
42	Synthesis of nano-sized alkaline-earth hydroxyapatites through microwave assisted metathesis route. <i>Materials Letters</i> , 2006 , 60, 218-221	3.3	34
41	Plasma induced graft polymerization of acrylic acid onto polypropylene monofilament. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 324-330	2.9	32
40	The quest for targeted delivery in colon cancer: mucoadhesive valdecoxib microspheres. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1057-68	7.3	28
39	Strategies for replicating anatomical cartilaginous tissue gradient in engineered intervertebral disc. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 183-93	9.5	26
38	Synthesis and characterization of poly{N-[3-(dimethylamino) propyl] methacrylamide-co-itaconic acid} hydrogels for drug delivery. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 3199-3206	2.9	25
37	Synthesis, Characterization and Performance of Amine Modified Linseed Oil Fatty Amide Coatings. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2009 , 86, 573-580	1.8	25
36	Analytical interpretations of structural and mechanical response of high density polyethylene/hydroxyapatite bio-composites. <i>Materials & Design</i> , 2012 , 36, 757-766		24
35	Formation and characterization of three dimensional human hepatocyte cell line spheroids on chitosan matrix for in vitro tissue engineering applications. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2007 , 43, 328-37	2.6	22
34	Synthesis and characterization of poly(esteramide-urethane) from linseed oil as anticorrosive coatings. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 3268-3273	2.9	21
33	Synthesis and characterization of poly(acrylic acid-co-N-[3-(dimethylamino)propyl]-methacrylamide) hydrogel membranes for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1273-1280	2.9	18
32	Absorbable Suture Materials: Preparation and Properties. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1988 , 28, 475-502		18
31	Morphological correlations to mechanical performance of hydroxyapatite-filled HDPE/UHMWPE composites. <i>Journal of Applied Polymer Science</i> , 2015 , 132,	2.9	16
30	Iron oxide labeling does not affect differentiation potential of human bone marrow mesenchymal stem cells exhibited by their differentiation into cardiac and neuronal cells. <i>Molecular and Cellular Biochemistry</i> , 2018 , 448, 17-26	4.2	16

29	Development of Anticorrosive Poly(Ether-Urethane) Amide Coatings from Linseed Oil: A Sustainable Resource. <i>Journal of Polymers and the Environment</i> , 2010 , 18, 208-215	4.5	16
28	Cytotoxic evaluation of hydroxyapatite-filled and silica/hydroxyapatite-filled acrylate-based restorative composite resins: An in vitro study. <i>Journal of Prosthetic Dentistry</i> , 2016 , 116, 129-35	4	15
27	Unveiling the self-assembly behavior of copolymers of AAc and DMAPMA in situ to form smart hydrogels displaying nanogels-within-macrogel hierarchical morphology. <i>Polymer</i> , 2011 , 52, 3800-3810	3.9	15
26	Agar-gelatin hybrid sponge-induced three-dimensional in vitro liver-like HepG2 spheroids for the evaluation of drug cytotoxicity. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009 , 3, 368-76	4.4	15
25	Gelatin-polytrimethylene carbonate blend based electrospun tubular construct as a potential vascular biomaterial. <i>Materials Science and Engineering C</i> , 2020 , 106, 110178	8.3	15
24	Mechanochemically assisted room temperature solid state metathesis reaction for the synthesis of M ₂ MoO ₄ (M = Ca, Sr and Ba). <i>Bulletin of Materials Science</i> , 2006 , 29, 115-118	1.7	13
23	Extraction of metal ions using chemically modified silica gel covalently bonded with 4,4'-diaminodiphenylether and 4,4'-diaminodiphenylsulfone-salicylaldehyde Schiff bases. <i>Analytical Sciences</i> , 2006 , 22, 1105-10	1.7	13
22	Plasma-Induced Graft Polymerization of Acrylic Acid onto Poly(propylene) Monofilament: Characterization. <i>Plasma Processes and Polymers</i> , 2010 , 7, 610-618	3.4	12
21	Prolonged zero-order BSA release from pH-sensitive hydrogels of poly(AAc-co-DMAPMA) having rich nano through micro scale morphology. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 393-403	2.9	11
20	Nitric oxide synthase-like activity of ion exchange resins modified with iron (III) porphyrins in the oxidation of L-arginine by H ₂ O ₂ : Mechanistic insights. <i>Catalysis Communications</i> , 2007 , 8, 1431-1437	3.2	11
19	Metathetic Reaction in Reverse Micelles: Synthesis of Nanostructured Alkaline-Earth Metal Phosphates. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1237-1242	3.8	11
18	Studies on grafting of methacrylic acid on to poly(vinyl chloride) films. <i>British Polymer Journal</i> , 1990 , 22, 89-95		9
17	Preparation of porous polycaprolactone tubular matrix by salt leaching process. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 1505-1510	2.9	8
16	Synthesis, characterization, and blood compatibility of copolymers of polyamidoamines and n-vinylpyrrolidone. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 4068-4074	2.9	8
15	Design and evaluation of acrylate polymeric carriers for fabrication of pH-sensitive microparticles. <i>Drug Development and Industrial Pharmacy</i> , 2017 , 43, 305-318	3.6	7
14	Fabrication of Smooth Electrospun Nanofibrous Gelatin Mat for Potential Application in Tissue Engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015 , 64, 509-518	3	7
13	Improved immunogenicity of biodegradable polymer particles entrapped rotavirus vaccine. <i>Journal of Biomaterials Applications</i> , 2011 , 25, 469-96	2.9	7
12	Electrospun microporous gelatin/polycaprolactone blend tubular scaffold as a potential vascular biomaterial. <i>Polymer International</i> , 2019 , 68, 1367-1377	3.3	6

11	Antibacterial multifilament nylon sutures. <i>Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology</i> , 1991 , 19, 631-48		6
10	Effect of CO ₂ plasma exposure on physico-chemical properties of porous polycaprolactone scaffold. <i>Polymer Bulletin</i> , 2016 , 73, 1875-1890	2.4	6
9	Filler-immobilization assisted designing of hydroxyapatite and silica/ hydroxyapatite filled acrylate based dental restorative composites: Comparative evaluation of quasi-static and dynamic mechanical properties. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	5
8	Colon targeting of fluticasone propionate inclusion complex: a novel approach in inflammatory bowel disease. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2013 , 75, 175-184		4
7	Graft polymerization of acrylic acid onto polypropylene monofilament by RF plasma. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	4
6	Synthesis, Characterization and Blood Compatibility of Copolymers Derived from Polyamidoamines and Vinyl Acetate. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2005 , 42, 351-364	2.2	4
5	Understanding the in situ crosslinked gelatin hydrogel. <i>Polymer International</i> , 2016 , 65, 181-191	3.3	4
4	Development of an orthosis for simultaneous three-dimensional correction of clubfoot deformity. <i>Clinical Biomechanics</i> , 2018 , 51, 67-75	2.2	3
3	Physico-chemical studies of polyetherurethaneurea in phosphate buffer solution. <i>Polymer International</i> , 1991 , 24, 149-157	3.3	2
2	Studies on fiber properties of sodium hydroxide-treated and grafted murga fibers—microscopical study. <i>Journal of Applied Polymer Science</i> , 1986 , 32, 2883-2888	2.9	2
1	Viscosity Behavior of Some Synthetic Polypeptides at Low Concentration. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1977 , 11, 1759-1769		1