

Patit Kundu

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173
papers

5,250
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38
h-index

63
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181
ext. papers

5,989
ext. citations

5.7
avg, IF

6.34
L-index

#	Paper	IF	Citations
173	Addition polymers from natural oils: A review. <i>Progress in Polymer Science</i> , 2006 , 31, 983-1008	29.6	311
172	Condensation polymers from natural oils. <i>Progress in Polymer Science</i> , 2008 , 33, 1199-1215	29.6	241
171	pH-sensitive chitosan/alginate core-shell nanoparticles for efficient and safe oral insulin delivery. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 640-8	7.9	199
170	Strategies for effective oral insulin delivery with modified chitosan nanoparticles: A review. <i>Progress in Polymer Science</i> , 2012 , 37, 1457-1475	29.6	153
169	pH sensitive N-succinyl chitosan grafted polyacrylamide hydrogel for oral insulin delivery. <i>Carbohydrate Polymers</i> , 2014 , 112, 627-37	10.3	149
168	Oral insulin delivery by self-assembled chitosan nanoparticles: in vitro and in vivo studies in diabetic animal model. <i>Materials Science and Engineering C</i> , 2013 , 33, 376-82	8.3	118
167	Acid catalysed cross-linking of poly vinyl alcohol (PVA) by glutaraldehyde: effect of crosslink density on the characteristics of PVA membranes used in single chambered microbial fuel cells. <i>RSC Advances</i> , 2015 , 5, 83436-83447	3.7	109
166	Alginate coated chitosan core-shell nanoparticles for efficient oral delivery of naringenin in diabetic animals-An in vitro and in vivo approach. <i>Carbohydrate Polymers</i> , 2017 , 170, 124-132	10.3	99
165	Partial sulfonation of PVdF-co-HFP: A preliminary study and characterization for application in direct methanol fuel cell. <i>Applied Energy</i> , 2014 , 113, 169-177	10.7	99
164	Biocatalysts in microbial fuel cells. <i>Enzyme and Microbial Technology</i> , 2010 , 47, 179-188	3.8	97
163	Preparation, characterization and in vivo evaluation of pH sensitive, safe quercetin-succinylated chitosan-alginate core-shell-corona nanoparticle for diabetes treatment. <i>Carbohydrate Polymers</i> , 2018 , 182, 42-51	10.3	88
162	An overview of unsolved deficiencies of direct methanol fuel cell technology: factors and parameters affecting its widespread use. <i>International Journal of Energy Research</i> , 2014 , 38, 1367-1390	4.5	83
161	Polymer electrolyte membrane with high selectivity ratio for direct methanol fuel cells: A preliminary study based on blends of partially sulfonated polymers polyaniline and PVdF-co-HFP. <i>Applied Energy</i> , 2014 , 118, 183-191	10.7	79
160	Partially sulfonated polyaniline induced high ion-exchange capacity and selectivity of Nafion membrane for application in direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2015 , 473, 94-101	9.6	75
159	Effect of salts and surfactant and their doses on the gelation of extremely dilute solutions of methyl cellulose. <i>Polymer</i> , 2001 , 42, 2015-2020	3.9	75
158	Nickel nanocatalysts supported on sulfonated polyaniline: potential toward methanol oxidation and as anode materials for DMFCs. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11349-11357	13	74
157	Formulation of pH-responsive carboxymethyl chitosan and alginate beads for the oral delivery of insulin. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 835-845	2.9	66

156	Enhancements of Catalyst Distribution and Functioning Upon Utilization of Conducting Polymers as Supporting Matrices in DMFCs: A Review. <i>Polymer Reviews</i> , 2015 , 55, 1-56	14	66
155	Membrane prepared by incorporation of crosslinked sulfonated polystyrene in the blend of PVdF-co-HFP/Nafion: A preliminary evaluation for application in DMFC. <i>Applied Energy</i> , 2014 , 123, 66-74	10.7	64
154	A Review on Aromatic Conducting Polymers-Based Catalyst Supporting Matrices for Application in Microbial Fuel Cells. <i>Polymer Reviews</i> , 2014 , 54, 401-435	14	64
153	Utilization of Conducting Polymers in Fabricating Polymer Electrolyte Membranes for Application in Direct Methanol Fuel Cells. <i>Polymer Reviews</i> , 2014 , 54, 1-32	14	64
152	Potential use of curcumin loaded carboxymethylated guar gum grafted gelatin film for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 437-46	7.9	63
151	Modified bacterial cellulose based self-healable polyelectrolyte film for wound dressing application. <i>Carbohydrate Polymers</i> , 2017 , 174, 580-590	10.3	58
150	Curcumin entrapped gelatin/ionically modified bacterial cellulose based self-healable hydrogel film: An eco-friendly sustainable synthesis method of wound healing patch. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 940-953	7.9	56
149	Reduction of methanol crossover and improved electrical efficiency in direct methanol fuel cell by the formation of a thin layer on Nafion 117 membrane: Effect of dip-coating of a blend of sulphonated PVdF-co-HFP and PBI. <i>Journal of Membrane Science</i> , 2015 , 474, 140-147	9.6	53
148	Conjugated low-saturation soybean oil thermosets: Free-radical copolymerization with dicyclopentadiene and divinylbenzene. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 423-430	2.9	52
147	Fabrication of cost-effective non-noble metal supported on conducting polymer composite such as copper/polypyrrole graphene oxide (Cu ₂ O/PPy/GO) as an anode catalyst for methanol oxidation in DMFC. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11505-11519	6.7	47
146	Biofunctionalized surface-modified silver nanoparticles for gene delivery. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5266-5276	7.3	47
145	Enhanced performance of direct methanol fuel cells: a study on the combined effect of various supporting electrolytes, flow channel designs and operating temperatures. <i>International Journal of Energy Research</i> , 2014 , 38, 41-50	4.5	47
144	Formation and evaluation of semi-IPN of nafion 117 membrane for direct methanol fuel cell: 1. Crosslinked sulfonated polystyrene in the pores of nafion 117. <i>Journal of Power Sources</i> , 2007 , 171, 86-91	8.9	47
143	Curcumin loaded nano graphene oxide reinforced fish scale collagen 3D scaffold biomaterial for wound healing applications. <i>RSC Advances</i> , 2015 , 5, 98653-98665	3.7	46
142	Preparation of guar gum scaffold film grafted with ethylenediamine and fish scale collagen, cross-linked with ceftazidime for wound healing application. <i>Carbohydrate Polymers</i> , 2016 , 153, 573-581	10.3	46
141	Low methanol permeable and highly selective membranes composed of pure and/or partially sulfonated PVdF-co-HFP and polyaniline. <i>Journal of Membrane Science</i> , 2014 , 468, 42-51	9.6	44
140	Synthetic polymeric vectors in gene therapy. <i>Current Opinion in Solid State and Materials Science</i> , 2008 , 12, 89-102	12	44
139	Preparation of polyurethane- β -glucan/chitosan core shell nanoparticles for the purpose of oral insulin delivery. <i>European Polymer Journal</i> , 2017 , 92, 294-313	5.2	42

138	Preparation of low molecular weight N-maleated chitosan-graft-PAMAM copolymer for enhanced DNA complexation. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 859-67	7.9	41
137	Organically modified clay supported chitosan/hydroxyapatite-zinc oxide nanocomposites with enhanced mechanical and biological properties for the application in bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 11-19	7.9	41
136	Utilization of proteinaceous materials for power generation in a mediatorless microbial fuel cell by a new electrogenic bacteria <i>Lysinibacillus sphaericus</i> VA5. <i>Enzyme and Microbial Technology</i> , 2013 , 53, 339-44	3.8	39
135	Multifunctional zirconium oxide doped chitosan based hybrid nanocomposites as bone tissue engineering materials. <i>Carbohydrate Polymers</i> , 2016 , 151, 879-888	10.3	38
134	Co/Al ₂ O ₃ -rGO nanocomposite as cathode electrocatalyst for superior oxygen reduction in microbial fuel cell applications: The effect of nanocomposite composition. <i>Electrochimica Acta</i> , 2017 , 254, 1-13	6.7	36
133	Performance evaluation of microbial fuel cells: effect of varying electrode configuration and presence of a membrane electrode assembly. <i>New Biotechnology</i> , 2015 , 32, 272-81	6.4	36
132	A review on the synthesis of graft copolymers of chitosan and their potential applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 2097-2112	7.9	36
131	Preparation of low toxic fluorescent chitosan-graft-polyethyleneimine copolymer for gene carrier. <i>Carbohydrate Polymers</i> , 2013 , 92, 2048-57	10.3	35
130	A nanocomposite membrane composed of incorporated nano-alumina within sulfonated PVDF-co-HFP/Nafion blend as separating barrier in a single chambered microbial fuel cell. <i>RSC Advances</i> , 2016 , 6, 23571-23580	3.7	35
129	Graphite oxide incorporated crosslinked polyvinyl alcohol and sulfonated styrene nanocomposite membrane as separating barrier in single chambered microbial fuel cell. <i>Journal of Power Sources</i> , 2017 , 341, 285-293	8.9	33
128	Deposition of Ni/NiO nanoparticles on the reduced graphene oxide filled polypyrrole: evaluation as cathode catalyst in microbial fuel cells. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1808-1826	5.8	33
127	Reduced graphene oxide paper based nanocomposite materials for flexible supercapacitors. <i>RSC Advances</i> , 2015 , 5, 26666-26674	3.7	33
126	Bio-degradation of polyethylene waste by simultaneous use of two bacteria: <i>Bacillus licheniformis</i> for production of bio-surfactant and <i>Lysinibacillus fusiformis</i> for bio-degradation. <i>RSC Advances</i> , 2016 , 6, 2982-2992	3.7	33
125	Effect of the presence of partially sulfonated polyaniline on the proton and methanol transport behavior of partially sulfonated PVdF membrane. <i>Polymer Journal</i> , 2016 , 48, 301-309	2.7	33
124	Synthesis, Preparation, and Performance of Blends and Composites of π -Conjugated Polymers and their Copolymers in DMFCs. <i>Polymer Reviews</i> , 2015 , 55, 630-677	14	32
123	Modified chitosan encapsulated core-shell Ag Nps for superior antimicrobial and anticancer activity. <i>International Journal of Biological Macromolecules</i> , 2016 , 85, 157-67	7.9	32
122	Development of highly efficient bimetallic nanocomposite cathode catalyst, composed of Ni:Co supported sulfonated polyaniline for application in microbial fuel cells. <i>Electrochimica Acta</i> , 2018 , 282, 931-945	6.7	32
121	Chitosan-graft-PAMAM β -glucuronate core-shell nanoparticles: a safe and promising oral insulin carrier in an animal model. <i>RSC Advances</i> , 2015 , 5, 93995-94007	3.7	31

120	Development of pH sensitive polyurethane- β -glucan nanoparticles for safe and efficient oral insulin delivery in animal models. <i>RSC Advances</i> , 2016 , 6, 41835-41846	3.7	31
119	Fabrication of magnetite nanoparticle doped reduced graphene oxide grafted polyhydroxyalkanoate nanocomposites for tissue engineering application. <i>RSC Advances</i> , 2016 , 6, 46116-46133	3.7	31
118	Coating and lamination of Nafion117 with partially sulfonated PVdF for low methanol crossover in DMFC applications. <i>Electrochimica Acta</i> , 2015 , 173, 124-130	6.7	28
117	Performance assessment of partially sulfonated PVdF-co-HFP as polymer electrolyte membranes in single chambered microbial fuel cells. <i>Applied Energy</i> , 2015 , 137, 310-321	10.7	28
116	The fabrication of silane modified graphene oxide supported NiCo bimetallic electrocatalysts: A catalytic system for superior oxygen reduction in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 25874-25893	6.7	28
115	Development of bone-like zirconium oxide nanoceramic modified chitosan based porous nanocomposites for biomedical application. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 348-356	7.9	28
114	Characterization and evaluation of curcumin loaded guar gum/polyhydroxyalkanoates blend films for wound healing applications. <i>RSC Advances</i> , 2015 , 5, 63489-63501	3.7	27
113	Partially Sulfonated Poly(vinylidene fluoride) Induced Enhancements of Properties and DMFC Performance of Nafion Electrolyte Membrane. <i>Fuel Cells</i> , 2015 , 15, 505-515	2.9	27
112	Sulfonated graphene oxide and titanium dioxide coated with nanostructured polyaniline nanocomposites as an efficient cathode catalyst in microbial fuel cells. <i>Materials Science and Engineering C</i> , 2020 , 108, 110498	8.3	27
111	Crosslinked inter penetrating network of sulfonated styrene and sulfonated PVdF-co-HFP as electrolytic membrane in a single chamber microbial fuel cell. <i>RSC Advances</i> , 2015 , 5, 30758-30767	3.7	26
110	Incorporation of nano-Al ₂ O ₃ within the blend of sulfonated-PVdF-co-HFP and Nafion for high temperature application in DMFCs. <i>RSC Advances</i> , 2015 , 5, 63465-63472	3.7	26
109	Development of porous and antimicrobial CTS- β -glucan-APZnO nano-composites for bone tissue engineering. <i>RSC Advances</i> , 2015 , 5, 99385-99393	3.7	24
108	Synthesis of a self-healable and pH responsive hydrogel based on an ionic polymer/clay nanocomposite. <i>RSC Advances</i> , 2016 , 6, 81654-81665	3.7	24
107	Aromatic π -Conjugated Curcumin on Surface Modified Polyaniline/Polyhydroxyalkanoate Based 3D Porous Scaffolds for Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 2365-2377	5.5	24
106	Efficient oral insulin delivery by dendronized chitosan: in vitro and in vivo studies. <i>RSC Advances</i> , 2014 , 4, 43890-43902	3.7	24
105	Amphiphiles as hydrophobicity regulator: fine tuning the surface hydrophobicity of an electropolymerized film. <i>Journal of Colloid and Interface Science</i> , 2013 , 397, 192-8	9.3	23
104	Blood compatible N-maleyl chitosan-graft-PAMAM copolymer for enhanced gene transfection. <i>Carbohydrate Polymers</i> , 2013 , 98, 596-606	10.3	23
103	Reversible assembly and disassembly of amphiphilic assemblies by electropolymerized polyaniline films: effects rendered by varying the electropolymerization potential. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7797-805	3.4	23

102	Progress in Developments of Inorganic Nanocatalysts for Application in Direct Methanol Fuel Cells. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015 , 40, 316-357	10.1	22
101	Metal-free keratin modified poly(pyrrole-co-aniline)-reduced graphene oxide based nanocomposite materials: A promising cathode catalyst in microbial fuel cell application. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103813	6.8	22
100	Effects of various factors on the interfacial mass transfer phenomenon and dispersion of polyaniline in an aqueous/organic bi-/tri-phasic system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 830-838	5.1	21
99	Fabrication of laminated and coated Nafion 117 membranes for reduced mass transfer in microbial fuel cells. <i>RSC Advances</i> , 2016 , 6, 21526-21534	3.7	21
98	Sulfonated polypyrrole matrix induced enhanced efficiency of Ni nanocatalyst for application as an anode material for DMFCs. <i>Materials Chemistry and Physics</i> , 2016 , 176, 143-151	4.4	21
97	Novel magnetic antimicrobial nanocomposites for bone tissue engineering applications. <i>RSC Advances</i> , 2015 , 5, 25437-25445	3.7	20
96	Effect of electric impulse for improved energy generation in mediatorless dual chamber microbial fuel cell through electroevolution of Escherichia coli. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 796-801	11.8	20
95	PAMAM conjugated chitosan through naphthalimide moiety for enhanced gene transfection efficiency. <i>Carbohydrate Polymers</i> , 2013 , 98, 495-504	10.3	20
94	Alkaline fungal degradation of oxidized polyethylene in black liquor: Studies on the effect of lignin peroxidases and manganese peroxidases. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	20
93	Composites of Proton-Conducting Polymer Electrolyte Membrane in Direct Methanol Fuel Cells. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2007 , 32, 51-66	10.1	20
92	Fabrication of calcium hydroxyapatite incorporated polyurethane-graphene oxide nanocomposite porous scaffolds from poly (ethylene terephthalate) waste: A green route toward bone tissue engineering. <i>Polymer</i> , 2020 , 195, 122436	3.9	19
91	Evaluation of chitosan and their self-assembled nanoparticles with pDNA for the application in gene therapy. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 2239-2249	2.9	19
90	Studies on in vitro release of CPM from semi-interpenetrating polymer network (IPN) composed of chitosan and glutamic acid. <i>Bulletin of Materials Science</i> , 2008 , 31, 159-167	1.7	19
89	Polyhydroxybutyrate-co-hydroxyvalerate copolymer modified graphite oxide based 3D scaffold for tissue engineering application. <i>Materials Science and Engineering C</i> , 2019 , 94, 534-546	8.3	19
88	Oral delivery of quercetin to diabetic animals using novel pH responsive carboxypropionylated chitosan/alginate microparticles. <i>RSC Advances</i> , 2016 , 6, 73210-73221	3.7	18
87	Highly methanol resistant and selective ternary blend membrane composed of sulfonated PVdF-co-HFP, sulfonated polyaniline and nafion. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	18
86	Nanostructured Polyaniline: An Efficient Support Matrix for Platinum-Ruthenium Anode Catalyst in Direct Methanol Fuel Cell. <i>Fuel Cells</i> , 2018 , 18, 369-378	2.9	18
85	Interaction between oxidized polyaniline and oppositely charged amphiphilic assemblies in an aqueous/organic biphasic system. <i>Journal of Colloid and Interface Science</i> , 2013 , 407, 516-23	9.3	18

84	Engineered elastomeric bio-nanocomposites from linseed oil/organoclay tailored for vibration damping. <i>RSC Advances</i> , 2014 , 4, 59265-59274	3.7	18
83	Performance evaluation of poly(aniline-co-pyrrole) wrapped titanium dioxide nanocomposite as an air-cathode catalyst material for microbial fuel cell. <i>Materials Science and Engineering C</i> , 2021 , 118, 111492	8.3	18
82	Assessment of in vivo chronic toxicity of chitosan and its derivatives used as oral insulin carriers. <i>Toxicology Research</i> , 2015 , 4, 281-290	2.6	17
81	Microbial, Physicochemical, and Sensory Analyses-Based Shelf Life Appraisal of White Fresh Cheese Packaged into PET Waste-Based Active Packaging Film. <i>Journal of Packaging Technology and Research</i> , 2018 , 2, 125-147	3.1	17
80	A Mussel Mimetic, Bioadhesive, Antimicrobial Patch Based on Dopamine-Modified Bacterial Cellulose/rGO/Ag NPs: A Green Approach toward Wound-Healing Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	16
79	Analysis of polybenzimidazole and polyvinylpyrrolidone blend membranes as separating barrier in single chambered microbial fuel cells. <i>Biochemical Engineering Journal</i> , 2016 , 111, 34-42	4.2	16
78	Effect of alcoholic, glycolic, and polyester resin additives on the gelation of dilute solution (1%) of methylcellulose. <i>Carbohydrate Polymers</i> , 2003 , 51, 57-61	10.3	16
77	Biodegradation of polyethylene via complete solubilization by the action of <i>Pseudomonas fluorescens</i> , biosurfactant produced by <i>Bacillus licheniformis</i> and anionic surfactant. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1300-1311	3.5	16
76	Unitized Regenerative Fuel Cells: A Review on Developed Catalyst Systems and Bipolar Plates. <i>Fuel Cells</i> , 2017 , 17, 736-751	2.9	16
75	Synthesis and characterization of binary grafted psyllium for removing toxic mercury (II) ions from aqueous solution. <i>Materials Science and Engineering C</i> , 2019 , 104, 109900	8.3	15
74	Development of biomimetic nanocomposites as bone extracellular matrix for human osteoblastic cells. <i>Carbohydrate Polymers</i> , 2016 , 141, 82-91	10.3	15
73	Microbial degradation of linseed oil-based elastomer and subsequent accumulation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) copolymer. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 174, 1613-1630	3.2	15
72	PtRu/Al ₂ O ₃ nanocomposites as direct methanol fuel cell catalysts for electrooxidation of methanol in acidic medium. <i>RSC Advances</i> , 2015 , 5, 93539-93546	3.7	15
71	Synthesis of a novel pH-sensitive polyurethane-ßlignin blend with poly(ethylene terephthalate) waste for the oral delivery of protein. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	15
70	Synthesis of a carboxymethylated guar gum grafted polyethyleneimine copolymer as an efficient gene delivery vehicle. <i>RSC Advances</i> , 2016 , 6, 13730-13741	3.7	14
69	Extrusion and Evaluation of Chitosan Assisted AgNPs Immobilized Film Derived from Waste Polyethylene Terephthalate for Food Packaging Applications. <i>Journal of Packaging Technology and Research</i> , 2017 , 1, 165-180	3.1	14
68	Anionic surfactant induced oxidation of low density polyethylene followed by its microbial bio-degradation. <i>International Biodeterioration and Biodegradation</i> , 2017 , 117, 255-268	4.8	13
67	Mechanical and biological investigations of chitosan-polyvinyl alcohol based ZrO ₂ doped porous hybrid composites for bone tissue engineering applications. <i>New Journal of Chemistry</i> , 2017 , 41, 7524-7530	3.6	13

66	Fabrication and characterization of in situ graphene oxide reinforced high-performance shape memory polymeric nanocomposites from vegetable oil. <i>RSC Advances</i> , 2016 , 6, 27648-27658	3.7	13
65	Effect of drying catalysts on the properties of thermal copolymers from conjugated linseed oil/styrene/divinylbenzene. <i>Progress in Organic Coatings</i> , 2009 , 65, 10-18	4.8	13
64	Water sorption and diffusion through saturated polyester and their nanocomposites synthesized from glycolized PET waste with varied composition. <i>Chemical Engineering Science</i> , 2010 , 65, 4378-4387	4.4	13
63	Optimisation of physical and mechanical properties of rubber compounds by response surface methodology/Two component modelling using vegetable oil and carbon black. <i>European Polymer Journal</i> , 2002 , 38, 1417-1422	5.2	13
62	Carboxymethyl Chitosan Modified Montmorillonite for Efficient Removal of Cationic Dye from Waste Water. <i>Defence Science Journal</i> , 2014 , 64, 198-208	1.4	13
61	Synthesis and characterization of styrene-co-divinylbenzene-graft-linseed oil by free radical polymerization. <i>EXPRESS Polymer Letters</i> , 2008 , 2, 265-276	3.4	13
60	Polyaniline nanowhiskers induced low methanol permeability and high membrane selectivity in partially sulfonated PVdF-co-HFP membranes. <i>RSC Advances</i> , 2016 , 6, 107960-107969	3.7	13
59	Composite membrane of sulfonated polybenzimidazole and sulfonated graphene oxide for potential application in microbial fuel cell. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104945	6.8	13
58	MFC with vermicompost soil: power generation with additional importance of waste management. <i>RSC Advances</i> , 2015 , 5, 41300-41306	3.7	12
57	Polyurethane-incorporated chitosan/alginate core/shell nano-particles for controlled oral insulin delivery. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46365	2.9	12
56	TiO doped chitosan/poly (vinyl alcohol) nanocomposite film with enhanced mechanical properties for application in bone tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 285-296	7.9	12
55	A study on the heat behaviour of PEM, prepared by incorporation of crosslinked sulfonated polystyrene in the blend of PVdF-co-HFP/Nafion, for its high temperature application in DMFC. <i>Materials Today Communications</i> , 2015 , 2, e1-e8	2.5	11
54	Spectroscopic analysis and catalytic application of biopolymer capped silver nanoparticle, an effective antimicrobial agent. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
53	Viper and cobra venom neutralization by alginate coated multicomponent polyvalent antivenom administered by the oral route. <i>PLoS Neglected Tropical Diseases</i> , 2014 , 8, e3039	4.8	11
52	Semi-interpenetrating polymer networks of chitosan and L-alanine for monitoring the release of chlorpheniramine maleate. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 3751-3757	2.9	11
51	Effect of addition of surfactants on the rheology of gels from methylcellulose in N,N-dimethylformamide. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1871-1879	2.9	11
50	Thermogelation of methylcellulose from solution in N,N-dimethylformamide and characterization of the transparent gels. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3031-3037	2.9	11
49	Formation of semi-IPN membrane composed of crosslinked SPS-[PVdF-co-HFP/Nafion] for application in DMFC: A fine tuning between crosslinker and initiator. <i>Materials Chemistry and Physics</i> , 2015 , 164, 188-197	4.4	10

48	Thermal and mechanical behavior of unsaturated polyester [derived from poly(ethylene terephthalate) waste] and montmorillonite-filled nanocomposites synthesized by in situ polymerization. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2731-2740	2.9	10
47	Fabrication of porous magnetic nanocomposites for bone tissue engineering. <i>New Journal of Chemistry</i> , 2017 , 41, 190-197	3.6	9
46	Vibration damping characterization of linseed oil-based elastomers for its effectiveness to attenuate structural vibration. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 3611-3623	2.9	9
45	Swelling kinetics of linseed oil-based nanocomposites. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 446-456	2.9	9
44	Rheological properties of methylcellulose aqueous gels under dynamic compression: Frequency sweep and validity of scaling law. <i>Journal of Applied Polymer Science</i> , 2010 , 117, 2436-2443	2.9	9
43	Synthesis of Co/Ni @ Al ₂ O ₃ -GO as novel oxygen reduction electrocatalyst for sustainable bioelectricity production in single-chambered microbial fuel cells. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106054	6.8	9
42	Controlled Release of Urea Through Mesoporous Methylcellulose Films Derived From N, N Dimethyl Formamide. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013 , 62, 755-762	3	8
41	Epoxidized Esters of Palm Kernel Oil as an Effective Plasticizer for PVC: A Study of Mechanical Properties and Effect of Processing Conditions. <i>International Polymer Processing</i> , 2014 , 29, 495-506	1	8
40	DSC and micro structural studies of methylcellulose gels in N, N dimethylformamide. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	8
39	Swelling kinetics of linseed oil-based polymers. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 1816-1827	2.9	8
38	Optimization of chlorpheniramine maleate (CPM) delivery by response surface methodology (Four component modeling using various response times and concentrations of chitosan-alanine, glutaraldehyde and CPM. <i>EXPRESS Polymer Letters</i> , 2009 , 3, 207-218	3.4	8
37	Effect of Polyethylene Glycol on Bis(2-hydroxyethyl) terephthalate-Based Polyurethane/Alginate pH-Sensitive Blend for Oral Protein Delivery. <i>Advances in Polymer Technology</i> , 2016 , 35,	1.9	8
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