Sagar Pal

List of Publications by Year
in descending order

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119	6,150	57631	76769
papers	citations	44 h-index	74 g-index

132	132	132	6005
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Removal of Methylene Blue and Methyl Violet Dyes from Aqueous Solution Using a Nanocomposite of Hydrolyzed Polyacrylamide Grafted Xanthan Gum and Incorporated Nanosilica. ACS Applied Materials & Interfaces, 2014, 6, 4766-4777.	4.0	462
2	Cationic starch: an effective flocculating agent. Carbohydrate Polymers, 2005, 59, 417-423.	5.1	314
3	Effective removal of Congo red dye from aqueous solution using modified xanthan gum/silica hybrid nanocomposite as adsorbent. Bioresource Technology, 2013, 144, 485-491.	4.8	221
4	Experimental and theoretical studies of xanthan gum and its graft co-polymer as corrosion inhibitor for mild steel in 15% HCl. Applied Surface Science, 2015, 353, 173-183.	3.1	178
5	A novel polymeric flocculant based on polyacrylamide grafted carboxymethylstarch. Carbohydrate Polymers, 2009, 77, 822-831.	5.1	170
6	Novel biodegradable nanocomposite based on XG-g-PAM/SiO2: Application of an efficient adsorbent for Pb2+ ions from aqueous solution. Bioresource Technology, 2012, 119, 181-190.	4.8	142
7	Flocculation properties of polyacrylamide grafted carboxymethyl guar gum (CMG-g-PAM) synthesised by conventional and microwave assisted method. Journal of Hazardous Materials, 2011, 192, 1580-1588.	6.5	137
8	Microwave initiated synthesis of polyacrylamide grafted guar gum (GG-g-PAM)â€"Characterizations and application as matrix for controlled release of 5-amino salicylic acid. International Journal of Biological Macromolecules, 2010, 47, 164-170.	3.6	126
9	Carboxymethyl Tamarind-g-poly(acrylamide)/Silica: A High Performance Hybrid Nanocomposite for Adsorption of Methylene Blue Dye. Industrial & Engineering Chemistry Research, 2012, 51, 15546-15556.	1.8	126
10	Modified biopolymer-dextrin based crosslinked hydrogels: application in controlled drug delivery. RSC Advances, 2015, 5, 25014-25050.	1.7	117
11	Stimulus-Responsive, Biodegradable, Biocompatible, Covalently Cross-Linked Hydrogel Based on Dextrin and Poly(<i>N</i>-isopropylacrylamide) for in Vitro/in Vivo Controlled Drug Release. ACS Applied Materials & Interfaces, 2015, 7, 14338-14351.	4.0	117
12	Novel biodegradable polymeric flocculant based on polyacrylamide-grafted tamarind kernel polysaccharide. Bioresource Technology, 2010, 101, 9638-9644.	4.8	109
13	Dextrin cross linked with poly(HEMA): a novel hydrogel for colon specific delivery of ornidazole. RSC Advances, 2013, 3, 25340.	1.7	105
14	Dextrin and Poly(acrylic acid)-Based Biodegradable, Non-Cytotoxic, Chemically Cross-Linked Hydrogel for Sustained Release of Ornidazole and Ciprofloxacin. ACS Applied Materials & Interfaces, 2015, 7, 4791-4803.	4.0	105
15	Efficient and rapid adsorption characteristics of templating modified guar gum and silica nanocomposite toward removal of toxic reactive blue and Congo red dyes. Bioresource Technology, 2015, 191, 291-299.	4.8	102
16	Microwaveâ€initiated synthesis of polyacrylamide grafted sodium alginate: Synthesis and characterization. Journal of Applied Polymer Science, 2010, 115, 63-71.	1.3	99
17	A model of flocculation. Materials Letters, 2007, 61, 4381-4384.	1.3	97
18	Microwave initiated synthesis of polyacrylamide grafted carboxymethylstarch (CMS-g-PAM): Application as a novel matrix for sustained drug release. International Journal of Biological Macromolecules, 2009, 45, 48-55.	3.6	89

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19	Polymer hydrogel from carboxymethyl guar gum and carbon nanotube for sustained trans-dermal release of diclofenac sodium. International Journal of Biological Macromolecules, 2011, 49, 885-893.	3.6	87
20	Flocculation characteristics of polyacrylamide grafted hydroxypropyl methyl cellulose: An efficient biodegradable flocculant. Chemical Engineering Journal, 2013, 229, 144-152.	6.6	87
21	Selective removal of toxic anionic dyes using a novel nanocomposite derived from cationically modified guar gum and silica nanoparticles. Journal of Hazardous Materials, 2016, 301, 127-136.	6.5	83
22	Efficient removal of malachite green dye using biodegradable graft copolymer derived from amylopectin and poly(acrylic acid). Carbohydrate Polymers, 2014, 111, 108-115.	5.1	78
23	Efficient Removal of Toxic Dyes via Simultaneous Adsorption and Solar Light Driven Photodegradation Using Recyclable Functionalized Amylopectinâ€“TiO₂â€“Au Nanocomposite. ACS Sustainable Chemistry and Engineering, 2016, 4, 1679-1688.	3.2	78
24	Amylopectin grafted with poly (acrylic acid): Development and application of a high performance flocculant. Carbohydrate Polymers, 2013, 95, 753-759.	5.1	77
25	Synthesis and characterization of cationic guar gum: A high performance flocculating agent. Journal of Applied Polymer Science, 2007, 105, 3240-3245.	1.3	74
26	Grafting effect of gum acacia on mild steel corrosion in acidic medium: Gravimetric and electrochemical study. Journal of Molecular Liquids, 2018, 251, 470-479.	2.3	74
27	Carboxymethyl tamarind: Synthesis, characterization and its application as novel drugâ€delivery agent. Journal of Applied Polymer Science, 2008, 110, 392-400.	1.3	73
28	Hierarchically order porous lotus shaped nano-structured MnO2 through MnCO3: chelate mediated growth and shape dependent improved catalytic activity. Journal of Materials Chemistry A, 2013, 1, 10251.	5.2	66
29	Synthesis, characterization and flocculation characteristics of cationic glycogen: A novel polymeric flocculant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 289, 193-199.	2.3	65
30	In Situ Silver Nanowire Deposited Cross-Linked Carboxymethyl Cellulose: A Potential Transdermal Anticancer Drug Carrier. ACS Applied Materials & Interfaces, 2017, 9, 36583-36595.	4.0	65
31	High-technology materials based on modified polysaccharides. Pure and Applied Chemistry, 2009, 81, 525-547.	0.9	63
32	Novel nanocomposite derived from ZnO/CdS QDs embedded crosslinked chitosan: An efficient photocatalyst and effective antibacterial agent. Journal of Hazardous Materials, 2019, 369, 398-407.	6.5	62
33	A biodegradable, biocompatible transdermal device derived from carboxymethyl cellulose and multi-walled carbon nanotubes for sustained release of diclofenac sodium. RSC Advances, 2016, 6, 19605-19611.	1.7	60
34	Synthesis and characterization of a novel polymeric hydrogel based on hydroxypropyl methyl cellulose grafted with polyacrylamide. Cellulose, 2012, 19, 933-945.	2.4	59
35	Evaluation of the Flocculation Characteristics of Polyacrylamide Grafted Xanthan Gum/Silica Hybrid Nanocomposite. Industrial & Engineering Chemistry Research, 2013, 52, 9731-9740.	1.8	57
36	Anionically functionalized guar gum embedded with silica nanoparticles: An efficient nanocomposite adsorbent for rapid adsorptive removal of toxic cationic dyes and metal ions. Bioresource Technology, 2017, 225, 367-376.	4.8	57

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37	Polyacrylamide Grafted Carboxymethyl Tamarind (CMTâ€gâ€PAM): Development and Application of a Novel Polymeric Flocculant. Macromolecular Symposia, 2009, 277, 100-111.	0.4	53
38	Microwave assisted synthesis of polyacrylamide grafted dextrin (Dxt-g-PAM): Development and application of a novel polymeric flocculant. International Journal of Biological Macromolecules, 2010, 47, 623-631.	3.6	53
39	Rapid adsorptive removal of toxic Pb 2+ ion from aqueous solution using recyclable, biodegradable nanocomposite derived from templated partially hydrolyzed xanthan gum and nanosilica. Bioresource Technology, 2014, 170, 578-582.	4.8	53
40	Acrylic acid grafted guargumâ€“nanosilica membranes for transdermal diclofenac delivery. Carbohydrate Polymers, 2013, 91, 492-501.	5.1	51
41	Dextrin/poly (HEMA): pH responsive porous hydrogel for controlled release of ciprofloxacin. International Journal of Biological Macromolecules, 2015, 72, 171-178.	3.6	50
42	Dextrin and poly(lactide)-based biocompatible and biodegradable nanogel for cancer targeted delivery of doxorubicin hydrochloride. Polymer Chemistry, 2016, 7, 2965-2975.	1.9	50
43	Biopolymer dextrin and poly (vinyl acetate) based graft copolymer as an efficient corrosion inhibitor for mild steel in hydrochloric acid: Electrochemical, surface morphological and theoretical studies. Journal of Molecular Liquids, 2019, 275, 867-878.	2.3	50
44	Cross-Linked Biopolymer Stabilized Exfoliated Titanate Nanosheet-Supported AgNPs: A Green Sustainable Ternary Nanocomposite Hydrogel for Catalytic and Antimicrobial Activity. ACS Sustainable Chemistry and Engineering, 2017, 5, 1881-1891.	3.2	46
45	Stimuli-responsive, biocompatible hydrogel derived from glycogen and poly(N-isopropylacrylamide) for colon targeted delivery of ornidazole and 5-amino salicylic acid. Polymer Chemistry, 2016, 7, 5426-5435.	1.9	44
46	High performance flocculating agents based on cationic polysaccharides in relation to coal fine suspension. Carbohydrate Polymers, 2008, 74, 590-596.	5.1	42
47	Cationic tamarind kernel polysaccharide (Cat TKP): A novel polymeric flocculant for the treatment of textile industry wastewater. International Journal of Biological Macromolecules, 2009, 45, 518-523.	3.6	42
48	Dextrin crosslinked with poly(lactic acid): A novel hydrogel for controlled drug release application. Journal of Applied Polymer Science, 2014, 131, .	1.3	42
49	Synthesis of glycogen and poly (acrylic acid)-based graft copolymers via ATRP and its application for selective removal of Pb2+ ions from aqueous solution. European Polymer Journal, 2015, 66, 33-46.	2.6	42
50	Î²-Cyclodextrin-Based Ultrahigh Stretchable, Flexible, Electro- and Pressure-Responsive, Adhesive, Transparent Hydrogel as Motion Sensor. ACS Applied Materials & Interfaces, 2022, 14, 17065-17080.	4.0	42
51	Biocompatible nanogel derived from functionalized dextrin for targeted delivery of doxorubicin hydrochloride to MG 63 cancer cells. Carbohydrate Polymers, 2017, 171, 27-38.	5.1	41
52	Î²-Cyclodextrin based pH and thermo-responsive biopolymeric hydrogel as a dual drug carrier. Materials Chemistry Frontiers, 2019, 3, 385-393.	3.2	38
53	Carboxymethyl guar: Its synthesis and macromolecular characterization. Journal of Applied Polymer Science, 2009, 111, 2630-2636.	1.3	37
54	Preparation of gold nanoparticles by a novel biodegradable graft copolymer sodium alginate-g-poly (N,N-dimethylacrylamide-co-acrylic acid) with anti micro bacterial application. European Polymer Journal, 2015, 66, 139-148.	2.6	37

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55	pH Triggered superior selective adsorption and separation of both cationic and anionic dyes and photocatalytic activity on a fully exfoliated titanate layerâ€“natural polymer based nanocomposite. Chemical Communications, 2015, 51, 16057-16060.	2.2	36
56	Oleoyl-Chitosan-Based Nanofiber Mats Impregnated with Amniotic Membrane Derived Stem Cells for Accelerated Full-Thickness Excisional Wound Healing. ACS Biomaterials Science and Engineering, 2017, 3, 1738-1749.	2.6	36
57	Amphoteric amylopectin: A novel polymeric flocculant. Carbohydrate Polymers, 2013, 91, 294-299.	5.1	35
58	Modified guar gum/SiO₂: development and application of a novel hybrid nanocomposite as a flocculant for the treatment of wastewater. Environmental Science: Water Research and Technology, 2015, 1, 84-95.	1.2	35
59	SBA-16: Application for the removal of neutral, cationic, and anionic dyes from aqueous medium. Journal of Environmental Chemical Engineering, 2016, 4, 157-166.	3.3	34
60	Nanocomposite hydrogel derived from poly (methacrylic acid)/carboxymethyl cellulose/AuNPs: A potential transdermal drugs carrier. Polymer, 2017, 120, 9-19.	1.8	33
61	Graft copolymeric flocculant using functionalized starch towards treatment of blast furnace effluent. International Journal of Biological Macromolecules, 2019, 125, 35-40.	3.6	33
62	Covalent cross-links in polyampholytic chitosan fibers enhances bone regeneration in a rabbit model. Colloids and Surfaces B: Biointerfaces, 2015, 125, 160-169.	2.5	32
63	Effect of chemical modification of a natural polysaccharide on its inhibitory action on mild steel in 15% HCl solution. Journal of Adhesion Science and Technology, 2017, 31, 2468-2489.	1.4	31
64	A High Performance Flocculating Agent and Viscosifiers Based On Cationic Guar Gum. Macromolecular Symposia, 2006, 242, 227-234.	0.4	30
65	A novel polymeric biomaterial based on carboxymethylstarch and its application in controlled drug release. Journal of Applied Polymer Science, 2009, 114, 2798-2805.	1.3	29
66	Tailoring carboxymethyl guargum hydrogel with nanosilica for sustained transdermal release of diclofenac sodium. Carbohydrate Polymers, 2012, 87, 1532-1538.	5.1	29
67	Removal of toxic pollutants from aqueous media using poly (vinyl imidazole) crosslinked chitosan synthesised through microwave assisted technique. Journal of Colloid and Interface Science, 2019, 542, 187-197.	5.0	29
68	Hydroxypropyl methyl cellulose grafted with polyacrylamide: Application in controlled release of 5-amino salicylic acid. Colloids and Surfaces B: Biointerfaces, 2013, 110, 236-241.	2.5	27
69	Development and application of a nanocomposite derived from crosslinked HPMC and Au nanoparticles for colon targeted drug delivery. RSC Advances, 2015, 5, 27481-27490.	1.7	27
70	Biocompatible, stimuliâ€responsive hydrogel of chemically crosslinked Î²â€cyclodextrin as amoxicillin carrier. Journal of Applied Polymer Science, 2018, 135, 45939.	1.3	27
71	Modified tamarind kernel polysaccharide: A novel matrix for control release of aspirin. International Journal of Biological Macromolecules, 2013, 58, 296-300.	3.6	26
72	Development of a Novel Nanocomposite Using Polypyrrole Grafted Chitosan-Decorated CDs with Improved Photocatalytic Activity under Solar Light Illumination. ACS Sustainable Chemistry and Engineering, 2019, 7, 9416-9421.	3.2	25

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73	Synthesis and characterization of biodegradable copolymer derived from dextrin and poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	24
74	Characterization of cationic starch: An efficient flocculating agent. Journal of Applied Polymer Science, 2008, 108, 2674-2681.	1.3	22
75	Novel biodegradable polymeric flocculants based on cationic polysaccharidesÂÂ. Advanced Materials Letters, 2014, 5, 24-30.	0.3	22
76	Flocculation performance of modified chitosan in an aqueous suspension. Journal of Applied Polymer Science, 2010, 118, 2592-2600.	1.3	21
77	Chitosan Derivatives Cross-Linked with Iodinated 2,5-Dimethoxy-2,5-dihydrofuran for Non-Invasive Imaging. ACS Applied Materials & Interfaces, 2014, 6, 17926-17936.	4.0	21
78	Biopolymeric nanogel derived from functionalized glycogen towards targeted delivery of 5-fluorouracil. Polymer, 2018, 140, 122-130.	1.8	21
79	Crosslinked chitosan embedded TiO2 NPs and carbon dots-based nanocomposite: An excellent photocatalyst under sunlight irradiation. International Journal of Biological Macromolecules, 2020, 164, 3676-3686.	3.6	20
80	Development of a Thermoresponsive Polymeric Composite Film Using Cross-Linked Î²-Cyclodextrin Embedded with Carbon Quantum Dots as a Transdermal Drug Carrier. ACS Applied Bio Materials, 2020, 3, 3285-3293.	2.3	20
81	Green synthesis, characterization and antibacterial activity of gold nanoparticles using hydroxyethyl starch-g-poly (methylacrylate-co-sodium acrylate): A novel biodegradable graft copolymer. Journal of Molecular Liquids, 2015, 212, 259-265.	2.3	18
82	Amphiphilic copolymer derived from tamarind gum and poly (methyl methacrylate) via ATRP towards selective removal of toxic dyes. Carbohydrate Polymers, 2017, 160, 1-8.	5.1	18
83	Biopolymeric pH-responsive fluorescent gel for in-vitro and in-vivo colon specific delivery of metronidazole and ciprofloxacin. European Polymer Journal, 2019, 114, 255-264.	2.6	18
84	Dual Functionalized Injectable Hybrid Extracellular Matrix Hydrogel for Burn Wounds. Biomacromolecules, 2021, 22, 514-533.	2.6	18
85	Synthesis of RAFTâ€Mediated Amphiphilic Graft Copolymeric Micelle Using Dextran and Poly (Oleic Acid) toward Oral Delivery of Nifedipine. Journal of Polymer Science Part A, 2018, 56, 2354-2363.	2.5	17
86	Poly(N-vinyl imidazole) Cross-Linked Î²-Cyclodextrin Hydrogel for Rapid Hemostasis in Severe Renal Arterial Hemorrhagic Model. Biomacromolecules, 2021, 22, 5256-5269.	2.6	17
87	Starch based biodegradable graft copolymer for the preparation of silver nanoparticles. International Journal of Biological Macromolecules, 2015, 81, 83-90.	3.6	16
88	Synthesis of copolymer derived from tamarind kernel polysaccharide (TKP) and poly(methacrylic acid) via SI-ATRP with enhanced pH triggered dye removal. RSC Advances, 2016, 6, 2958-2965.	1.7	16
89	Synthesis and characterizing a novel polymeric flocculant based on amylopectin-graft-polyacrylamide-graft-polyacrylic acid [(AP-g-PAM)-g-PAA]. Polymer Bulletin, 2012, 69, 545-560.	1.7	15
90	Cationically functionalized amylopectin as an efficient flocculant for treatment of coal suspension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124229.	2.3	15

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91	Settling rates for flocculation of iron and manganese oreâ€containing suspensions by cationic glycogen. Polymer Engineering and Science, 2008, 48, 1892-1896.	1.5	14
92	Novel pH-responsive graft copolymer based on HPMC and poly(acrylamide) synthesised by microwave irradiation: application in controlled release of ornidazole. Cellulose, 2015, 22, 313-327.	2.4	14
93	Biocompatible amphiphilic microgel derived from dextrin and poly(methyl methacrylate) for dual drugs carrier. Polymer, 2016, 107, 282-291.	1.8	14
94	Dextran based amphiphilic self-assembled biopolymeric macromolecule synthesized via RAFT polymerization as indomethacin carrier. International Journal of Biological Macromolecules, 2021, 183, 718-726.	3.6	14
95	High performance polymeric flocculant based on hydrolyzed polyacrylamide grafted tamarind kernel polysaccharide (Hyd. TKP-g-PAM). Bioresource Technology, 2011, 102, 2137-2139.	4.8	13
96	Modified amylopectin based flocculant for the treatment of synthetic effluent and industrial wastewaters. International Journal of Biological Macromolecules, 2015, 72, 356-363.	3.6	13
97	Synthesis of poly (ethylene glycol)-block-poly (acrylamide)-block-poly (lactide) amphiphilic copolymer through ATRP, ROP and click chemistry: Characterization, micellization and pH-triggered sustained release behaviour. Polymer, 2017, 127, 150-158.	1.8	13
98	Amphiphilic graft copolymeric micelle using dextrin and poly (N-vinyl caprolactam) via RAFT polymerization: Development and application. International Journal of Biological Macromolecules, 2018, 119, 954-961.	3.6	13
99	Modified hydroxypropyl methyl cellulose: Efficient matrix for controlled release of 5-amino salicylic acid. International Journal of Biological Macromolecules, 2015, 77, 207-213.	3.6	11
100	Comparison of selective flocculation of low grade goethitic iron ore fines using natural and synthetic polymers and a graft copolymer. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 498-504.	2.4	11
101	Amino Acid Inspired Alginate-Based pH Sensitive Polymeric Micelles via Reversible Additionâ€“Fragmentation Chain Transfer Polymerization. ACS Applied Polymer Materials, 2022, 4, 4432-4444.	2.0	11
102	Development of Crosslinked Chitosan/Au Nanocomposite, Its Characterization and Application towards Solar Light Driven Photocatalytic Degradation of Toxic Organic Compounds. ChemistrySelect, 2016, 1, 6115-6126.	0.7	9
103	In-situ silica incorporated carboxymethyl tamarind: Development and application of a novel hybrid nanocomposite. International Journal of Biological Macromolecules, 2011, 49, 1152-1159.	3.6	8
104	Opposite swelling characteristics through changing the connectivity in a biopolymeric hydrogel based on glycogen and glycine. Polymer Chemistry, 2020, 11, 2630-2634.	1.9	8
105	The UCST phase transition of a dextran based copolymer in aqueous media with tunable thermoresponsive behavior. Polymer Chemistry, 2022, 13, 3865-3869.	1.9	7
106	pH-Responsive Copolymeric Network Gel Using Methacrylated Î²-Cyclodextrin for Controlled Codelivery of Hydrophilic and Hydrophobic Drugs. ACS Applied Bio Materials, 2022, 5, 3530-3543.	2.3	7
107	Effect of Fe3O4 NPs on micellization and release behavior of CBABC-type pentablock copolymer. Polymer, 2017, 133, 184-194.	1.8	6
108	Synthesis of triblock copolymeric micelle based on poly (ethylene glycol) and poly (vinyl acetate) through reversible additionâ€“fragmentation chain transfer polymerization. Journal of Colloid and Interface Science, 2018, 524, 122-128.	5.0	6

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109	Reversible addition fragmentation chain transferâ€mediated bioconjugated amphiphilic graftâ€block copolymer using dextran, poly (Nâ€isopropylacrylamide), and poly (vinyl acetate). Journal of Applied Polymer Science, 2021, 138, 50381.	1.3	6
110	In-situ deposited CdS NPs on pH induced fully exfoliated layered titanate-biopolymeric composite and its photocatalytic activity. Polymer, 2021, 225, 123791.	1.8	6
111	Functionalized polysaccharide-based flocculants for solid liquid separation of wastewater. Journal of the Indian Chemical Society, 2021, 98, 100066.	1.3	6
112	Synthesis of an amphiphilic copolymer using biopolymer-dextran via a combination of ROP and RAFT techniques. Polymer Chemistry, 2022, 13, 1394-1400.	1.9	5
113	Macromolecular selective flocculant derived from functionalized starch towards beneficiation of low-quality iron ore: Atomistic simulations and experimental studies. Materials Today Communications, 2022, 32, 103810.	0.9	5
114	Polysaccharide-Based Graft Copolymers for Biomedical Applications. , 2013, , 325-345.		4
115	Reversible Additionâ€“Fragmentation Chain Transfer-Mediated Amphiphilic Copolymeric Composite as a Nanocarrier for Drug Delivery Application. ACS Applied Polymer Materials, 2021, 3, 5386-5396.	2.0	4
116	Investigation On Flocculation Characteristics Of Cationic Polysaccharides: Novel Polymeric Flocculants. Materials Research Innovations, 2005, 9, 55-56.	1.0	3
117	Development of a highly efficient selective flocculant based on functionalized <scp>Î²â€cyclodextrin</scp> toward beneficiation of lowâ€quality iron ore. Polymers for Advanced Technologies, 2021, 32, 2169-2175.	1.6	3
118	Synthesis of a novel copolymer using glycogen and poly(lactide) as a carrier of dual drugsâ€”ornidazole and ofloxacin. Journal of Polymer Science Part A, 2019, 57, 1697-1703.	2.5	2
119	Single-pot biofabrication of living fibers for tissue engineering applications. Journal of Materials Research, 2018, 33, 2019-2028.	1.2	1