Bimalendu Ray

List of Publications by Citations

81 papers	3,000 citations	31 h-index	53 g-index
81 ext. papers	3,294 ext. citations	6.4 avg, IF	5 L-index

#	Paper	IF	Citations
81	Focus on antivirally active sulfated polysaccharides: from structure-activity analysis to clinical evaluation. *Glycobiology*, **2009**, 19, 2-15	5.8	295
80	Structure and antiviral activity of sulfated fucans from Stoechospermum marginatum. *Phytochemistry*, **2006**, 67, 2474-82	4	155
79	Cell-wall polysaccharides from the marine green alga Ulva "rigida" (Ulvales, Chlorophyta)--NMR analysis of ulvan oligosaccharides. *Carbohydrate Research*, **1996**, 283, 161-73	2.9	143
78	Isolation, chemical investigation and antiviral activity of polysaccharides from Gracilaria corticata (Gracilariaceae, Rhodophyta). *International Journal of Biological Macromolecules*, **2002**, 31, 87-95	7.9	139
77	Structural features and antiviral activity of sulphated fucans from the brown seaweed Cystoseira indica. *Antiviral Chemistry and Chemotherapy*, **2007**, 18, 153-62	3.5	138
76	In vitro anti-herpetic activity of sulfated polysaccharide fractions from Caulerpa racemosa. *Phytochemistry*, **2004**, 65, 3151-7	4	136
75	Polysaccharides from Sargassum tenerrimum: structural features, chemical modification and anti-viral activity. *Phytochemistry*, **2010**, 71, 235-42	4	127
74	Polysaccharides from Enteromorpha compressa: Isolation, purification and structural features. *Carbohydrate Polymers*, **2006**, 66, 408-416	10.3	126
73	Polysaccharides from Turbinaria conoides: Structural features and antioxidant capacity. *Food Chemistry*, **2010**, 118, 823-829	8.5	121
72	Anti-herpetic activity of a sulfated xylomannan from Scinaia hatei. *Phytochemistry*, **2008**, 69, 2193-9	4	77
71	Structural investigation of hemicellulosic polysaccharides from Argania spinosa: characterisation of a novel xyloglucan motif. *Carbohydrate Research*, **2004**, 339, 201-8	2.9	74
70	Polysaccharides from Padina tetrastromatica: Structural features, chemical modification and antiviral activity. *Carbohydrate Polymers*, **2010**, 80, 513-520	10.3	67
69	Antiviral activity against dengue virus of diverse classes of algal sulfated polysaccharides. *International Journal of Biological Macromolecules*, **2012**, 51, 412-6	7.9	63
68	Galactan sulfate of Grateloupia indica: Isolation, structural features and antiviral activity. *Phytochemistry*, **2007**, 68, 1428-35	4	62
67	Structural features and in vitro antiviral activities of sulfated polysaccharides from Sphacelaria indica. *Phytochemistry*, **2011**, 72, 276-83	4	61
66	Green seaweed Enteromorpha compressa (Chlorophyta, Ulvaceae) derived sulphated polysaccharides inhibit herpes simplex virus. *International Journal of Biological Macromolecules*, **2017**, 102, 605-612	7.9	57
65	Polysaccharides from Gracilaria corticata: sulfation, chemical characterization and anti-HSV activities. *International Journal of Biological Macromolecules*, **2008**, 43, 346-51	7.9	57

64	Sulfated polysaccharides from Laminaria angustata: Structural features and in vitro antiviral activities. *Carbohydrate Polymers*, **2012**, 87, 123-130	10.3	56
63	Sulphated polysaccharides from Indian samples of Enteromorpha compressa (Ulvales, Chlorophyta): Isolation and structural features. *Food Chemistry*, **2007**, 104, 928-935	8.5	55
62	Sulfated xylomannans from the red seaweed Sebdenia polydactyla: structural features, chemical modification and antiviral activity. *Antiviral Chemistry and Chemotherapy*, **2009**, 19, 235-42	3.5	52
61	The in vitro antiviral property of Azadirachta indica polysaccharides for poliovirus. *Journal of Ethnopharmacology*, **2012**, 142, 86-90	5	48
60	Cell wall polysaccharides from chalkumra (Benincasa hispida) fruit. Part I. Isolation and characterization of pectins. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 3556-62	5.7	48
59	Polysaccharides from the brown seaweed Padina tetrastromatica: Characterization of a sulfated fucan. *Carbohydrate Polymers*, **2009**, 78, 416-421	10.3	46
58	Xylans from Scinaia hatei: Structural features, sulfation and anti-HSV activity. *International Journal of Biological Macromolecules*, **2010**, 46, 173-8	7.9	39
57	Characterization of mucilage polysaccharides, arabinogalactanproteins and cell-wall hemicellulosic polysaccharides isolated from flax seed meal: A wealth of structural moieties. *Carbohydrate Polymers*, **2013**, 93, 651-60	10.3	35
56	Structural characterisation of hemicellulosic polysaccharides from Benincasa hispida using specific enzyme hydrolysis, ion exchange chromatography and MALDI-TOF mass spectroscopy. *Carbohydrate Polymers*, **2005**, 59, 231-238	10.3	35
55	Chemical characterisation and gelling properties of cell wall polysaccharides from species of Ulva (Ulvales, Chlorophyta). *Hydrobiologia*, **1996**, 326-327, 473-480	2.4	35
54	Water-extracted polysaccharides from Azadirachta indica leaves: Structural features, chemical modification and anti-bovine herpesvirus type 1 (BoHV-1) activity. *International Journal of Biological Macromolecules*, **2010**, 47, 640-5	7.9	34
53	Chemically engineered sulfated glucans from rice bran exert strong antiviral activity at the stage of viral entry. *Journal of Natural Products*, **2013**, 76, 2180-8	4.9	33
52	Structural features and antitussive activity of water extracted polysaccharide from Adhatoda vasica. *Carbohydrate Polymers*, **2011**, 83, 1970-1974	10.3	32
51	Polysaccharides from Caulerpa racemosa: Purification and structural features. *Carbohydrate Polymers*, **2007**, 68, 407-415	10.3	31
50	Herbal polysaccharides and cough reflex. *Respiratory Physiology and Neurobiology*, **2013**, 187, 47-51	2.8	30
49	Structural features and in vivo antitussive activity of the water extracted polymer from Glycyrrhiza glabra. *International Journal of Biological Macromolecules*, **2011**, 48, 634-8	7.9	29
48	Cell wall carbohydrates from fruit pulp of Argania spinosa: structural analysis of pectin and xyloglucan polysaccharides. *Carbohydrate Research*, **2008**, 343, 67-72	2.9	28
47	Polysaccharides from Moringa oleifera gum: structural elements, interaction with β-lactoglobulin and antioxidative activity. *RSC Advances*, **2016**, 6, 75699-75706	3.7	28

46	Antioxidative carbohydrate polymer from Enhydra fluctuans and its interaction with bovine serum albumin. *Biomacromolecules*, **2013**, 14, 1761-8	6.9	26
45	Chemically sulfated polysaccharides from natural sources: Assessment of extraction-sulfation efficiencies, structural features and antiviral activities. *International Journal of Biological Macromolecules*, **2019**, 136, 521-530	7.9	25
44	Production and composition of extracellular polysaccharide synthesized by a Rhizobium isolate of Vigna mungo (L.) Hepper. *Biotechnology Letters*, **2007**, 29, 1271-5	3	18
43	In vitro anti-oxidant activity, fluorescence quenching study and structural features of carbohydrate polymers from Phyllanthus emblica. *International Journal of Biological Macromolecules*, **2011**, 49, 637-42	7.9	17
42	In vivo cough suppressive activity of pectic polysaccharide with arabinogalactan type II side chains of Piper nigrum fruits and its synergistic effect with piperine. *International Journal of Biological Macromolecules*, **2017**, 99, 335-342	7.9	15
41	Polysaccharides from Sesamum indicum meal: Isolation and structural features. *Food Chemistry*, **2005**, 90, 719-726	8.5	15
40	Polysaccharides from Thymus vulgaris leaf: Structural features, antioxidant activity and interaction with bovine serum albumin. *International Journal of Biological Macromolecules*, **2019**, 125, 580-587	7.9	15
39	Chemical structure of the arabinogalactan protein from gum ghatti and its interaction with bovine serum albumin. *Carbohydrate Polymers*, **2015**, 117, 370-376	10.3	14
38	Assessment of antiherpetic activity of nonsulfated and sulfated polysaccharides from Azadirachta indica. *International Journal of Biological Macromolecules*, **2019**, 137, 54-61	7.9	13
37	Interaction with bovine serum albumin of an anti-oxidative pectic arabinogalactan from Andrographis paniculata. *Carbohydrate Polymers*, **2014**, 101, 342-8	10.3	13
36	Antitussive Activity of the Water-Extracted Carbohydrate Polymer from Terminalia chebula on Citric Acid-Induced Cough. *Evidence-based Complementary and Alternative Medicine*, **2013**, 2013, 650134	2.3	13
35	Anti-cytomegalovirus activity of sulfated glucans generated from a commercial preparation of rice bran. *Antiviral Chemistry and Chemotherapy*, **2010**, 21, 85-95	3.5	13
34	Cell wall polysaccharides of Brassica campestris seed cake: isolation and structural features. *Carbohydrate Polymers*, **2004**, 57, 7-13	10.3	13
33	Additionally sulfated xylomannan sulfates from Scinaia hatei and their antiviral activities. *Carbohydrate Polymers*, **2015**, 131, 315-21	10.3	12
32	Antitussive arabinogalactan of Andrographis paniculata demonstrates synergistic effect with andrographolide. *International Journal of Biological Macromolecules*, **2014**, 69, 151-7	7.9	11
31	Exploiting the Amazing Diversity of Natural Source-Derived Polysaccharides: Modern Procedures of Isolation, Engineering, and Optimization of Antiviral Activities. *Polymers*, **2020**, 13,	4.5	11
30	Structural Elements and Cough Suppressing Activity of Polysaccharides from Zingiber officinale Rhizome. *Phytotherapy Research*, **2016**, 30, 105-11	6.7	11
29	Chemical profile of a polysaccharide from Psidium guajava leaves and its in vivo antitussive activity. *International Journal of Biological Macromolecules*, **2018**, 109, 681-686	7.9	10

28	In vivo antitussive activity of a pectic arabinogalactan isolated from Solanum virginianum L. in Guinea pigs. *Journal of Ethnopharmacology*, **2014**, 156, 41-6	5	10
27	Isolation, purification and some structural features of the mucilaginous exudate from Musa paradisiaca. *Fitoterapia*, **2001**, 72, 263-71	3.2	10
26	In vivo anti-tussive activity and structural features of a polysaccharide fraction from water extracted Withania somnifera. *Journal of Ethnopharmacology*, **2011**, 134, 510-3	5	9
25	Structural insight of an antioxidative arabinogalactan protein of Aegle marmelos fruit gum and its interaction with β-lactoglobulin. *International Journal of Biological Macromolecules*, **2017**, 99, 300-307	7.9	8
24	Cell-wall polysaccharides from the fruits of Limonia acidissima: isolation, purification and chemical investigation. *Carbohydrate Polymers*, **2002**, 48, 209-212	10.3	8
23	Structural studies of a polysaccharide from the seeds of Nelumbo nucifera. *Carbohydrate Research*, **1992**, 224, 331-335	2.9	8
22	Isolation and structural features of an antiradical polysaccharide of Capsicum annuum that interacts with BSA. *International Journal of Biological Macromolecules*, **2015**, 75, 144-51	7.9	7
21	Extracellular glycoconjugates produced by cyanobacterium Wollea saccata. *International Journal of Biological Macromolecules*, **2011**, 48, 553-7	7.9	7
20	Antiviral Strategies Using Natural Source-Derived Sulfated Polysaccharides in the Light of the COVID-19 Pandemic and Major Human Pathogenic Viruses.. *Viruses*, **2021**, 14,	6.2	7
19	Structure, fluorescence quenching and antioxidant activity of a carbohydrate polymer from Eugenia jambolana. *International Journal of Biological Macromolecules*, **2012**, 51, 158-64	7.9	6
18	Structural studies of a polysaccharide from the seeds of Salmalia malabarica. *Carbohydrate Research*, **1990**, 207, 336-339	2.9	6
17	Isolation, structural features, in vitro antioxidant activity and assessment of complexation ability with β-lactoglobulin of a polysaccharide from fruit. *Heliyon*, **2020**, 6, e05499	3.6	6
16	Structural characteristics, fluorescence quenching, and antioxidant activity of the arabinogalactan protein-rich fraction from senna (Cassia angustifolia) leaves. *Food Science and Biotechnology*, **2011**, 20, 1005-1011	3	5
15	Isolation and structural elements of a water-soluble free radical scavenger from Nyctanthes arbor-tristis leaves. *Phytochemistry*, **2015**, 115, 20-6	4	4
14	Antitussive activity of Withania somnifera and opioid receptors. *Advances in Experimental Medicine and Biology*, **2015**, 838, 19-25	3.6	4
13	Carbohydrate polymers of chirata (Swertia chirata) leaves: Structural features, in vitro anti-oxidant activity and fluorescence quenching study. *Food Science and Biotechnology*, **2012**, 21, 409-417	3	4
12	Structural features of a water soluble gum polysaccharide from Murraya paniculata fruits. *International Journal of Biological Macromolecules*, **2001**, 29, 169-74	7.9	4
11	The heteropolysaccharide of Mangifera indica fruit: Isolation, chemical profile, complexation with β-lactoglobulin and antioxidant activity. *International Journal of Biological Macromolecules*, **2020**, 165, 93-99	7.9	4

10	Chemically sulfated arabinoxylans from Plantago ovata seed husk: Synthesis, characterization and antiviral activity. *Carbohydrate Polymers*, **2021**, 256, 117555	10.3	4
9	Structural highlights of an antioxidative arabinogalactan protein of Lannea grandis gum that stabilizes β-lactoglobulin. *Food Hydrocolloids*, **2016**, 61, 720-729	10.6	3
8	Extracted polysaccharide from Nyctanthes arbor-tristis leaves: chemical and antitussive properties. *International Journal of Biological Macromolecules*, **2015**, 75, 128-32	7.9	3
7	Structural studies of an acidic polysaccharide from the seeds of Acacia auriculaeformis A. Cunn. *Carbohydrate Research*, **1989**, 185, 105-112	2.9	3
6	Structural studies of a neutral polysaccharide from the root bulb of Mirabilis jalapa. *Carbohydrate Research*, **1988**, 176, 324-328	2.9	3
5	The heparin-mimicking arabinogalactan sulfates from Anogeissus latifolia gum: Production, structures, and anti-herpes simplex virus activity. *International Journal of Biological Macromolecules*, **2021**, 183, 1419-1426	7.9	3
4	Structural Elements of an Antioxidative Pectic Arabinogalactan from Solanum virginianum. *Planta Medica Letters*, **2015**, 2, e57-e60		2
3	Influence of viscous Rhodella grisea (Rhodophyceae) proteoglycan on chemically induced cough reflex. *International Journal of Biological Macromolecules*, **2011**, 49, 1046-50	7.9	2
2	Synthesis, molecular features and biological activities of modified plant polysaccharides.. *Carbohydrate Polymers*, **2022**, 289, 119299	10.3	2
1	Conjugation reaction with ferulic acid boosts the antioxidant property of arabinogalactan-protein and enhances its ability to form complex with β-lactoglobulin. *International Journal of Biological Macromolecules*, **2021**, 167, 587-594	7.9	1