

# Bimalendu Ray

## List of Publications by Year in descending order

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81  
papers

3,692  
citations

109137

35  
h-index

133063

59  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Focus on antivirally active sulfated polysaccharides: From structure–activity analysis to clinical evaluation. <i>Glycobiology</i> , 2009, 19, 2-15.	1.3	344
2	Structure and antiviral activity of sulfated fucans from <i>Stoechospermum marginatum</i> . <i>Phytochemistry</i> , 2006, 67, 2474-2482.	1.4	181
3	Cell-wall polysaccharides from the marine green alga <i>Ulva aerigida</i> (Ulvales, Chlorophyta) – NMR analysis of ulvan oligosaccharides. <i>Carbohydrate Research</i> , 1996, 283, 161-173.	1.1	165
4	Isolation, chemical investigation and antiviral activity of polysaccharides from <i>Gracilaria corticata</i> (Gracilariaceae, Rhodophyta). <i>International Journal of Biological Macromolecules</i> , 2002, 31, 87-95.	3.6	164
5	Structural Features and Antiviral Activity of Sulphated Fucans from the Brown Seaweed <i>Cystoseira Indica</i> . <i>Antiviral Chemistry and Chemotherapy</i> , 2007, 18, 153-162.	0.3	164
6	In vitro anti-herpetic activity of sulfated polysaccharide fractions from <i>Caulerpa racemosa</i> . <i>Phytochemistry</i> , 2004, 65, 3151-3157.	1.4	163
7	Polysaccharides from <i>Enteromorpha compressa</i> : Isolation, purification and structural features. <i>Carbohydrate Polymers</i> , 2006, 66, 408-416.	5.1	151
8	Polysaccharides from <i>Turbinaria conoides</i> : Structural features and antioxidant capacity. <i>Food Chemistry</i> , 2010, 118, 823-829.	4.2	149
9	Polysaccharides from <i>Sargassum tenerrimum</i> : Structural features, chemical modification and anti-viral activity. <i>Phytochemistry</i> , 2010, 71, 235-242.	1.4	148
10	Anti-herpetic activity of a sulfated xylomannan from <i>Scinaia hatei</i> . <i>Phytochemistry</i> , 2008, 69, 2193-2199.	1.4	86
11	Green seaweed <i>Enteromorpha compressa</i> (Chlorophyta, Ulvaceae) derived sulphated polysaccharides inhibit herpes simplex virus. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 605-612.	3.6	82
12	Antiviral activity against dengue virus of diverse classes of algal sulfated polysaccharides. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 412-416.	3.6	81
13	Structural investigation of hemicellulosic polysaccharides from <i>Argania spinosa</i> : characterisation of a novel xyloglucan motif. <i>Carbohydrate Research</i> , 2004, 339, 201-208.	1.1	79
14	Galactan sulfate of <i>Grateloupia indica</i> : Isolation, structural features and antiviral activity. <i>Phytochemistry</i> , 2007, 68, 1428-1435.	1.4	77
15	Polysaccharides from <i>Padina tetrastromatica</i> : Structural features, chemical modification and antiviral activity. <i>Carbohydrate Polymers</i> , 2010, 80, 513-520.	5.1	77
16	Structural features and in vitro antiviral activities of sulfated polysaccharides from <i>Sphacelaria indica</i> . <i>Phytochemistry</i> , 2011, 72, 276-283.	1.4	75
17	Sulfated polysaccharides from <i>Laminaria angustata</i> : Structural features and in vitro antiviral activities. <i>Carbohydrate Polymers</i> , 2012, 87, 123-130.	5.1	68
18	The in vitro antiviral property of <i>Azadirachta indica</i> polysaccharides for poliovirus. <i>Journal of Ethnopharmacology</i> , 2012, 142, 86-90.	2.0	66

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19	Sulphated polysaccharides from Indian samples of <i>Enteromorpha compressa</i> (Ulvales, Chlorophyta): Isolation and structural features. <i>Food Chemistry</i> , 2007, 104, 928-935.	4.2	64
20	Polysaccharides from <i>Gracilaria corticata</i> : Sulfation, chemical characterization and anti-HSV activities. <i>International Journal of Biological Macromolecules</i> , 2008, 43, 346-351.	3.6	62
21	Sulfated Xylomannans from the Red Seaweed <i>Sebdenia Polydactyla</i> : Structural Features, Chemical Modification and Antiviral Activity. <i>Antiviral Chemistry and Chemotherapy</i> , 2009, 19, 235-242.	0.3	60
22	Cell Wall Polysaccharides from <i>Chalkumra</i> ( <i>Benincasa hispida</i> ) Fruit. Part I. Isolation and Characterization of Pectins. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 3556-3562.	2.4	53
23	Polysaccharides from the brown seaweed <i>Padina tetrastromatica</i> : Characterization of a sulfated fucan. <i>Carbohydrate Polymers</i> , 2009, 78, 416-421.	5.1	53
24	Polysaccharides from <i>Caulerpa racemosa</i> : Purification and structural features. <i>Carbohydrate Polymers</i> , 2007, 68, 407-415.	5.1	43
25	Xylans from <i>Scinaia hatei</i> : Structural features, sulfation and anti-HSV activity. <i>International Journal of Biological Macromolecules</i> , 2010, 46, 173-178.	3.6	43
26	Water-extracted polysaccharides from <i>Azadirachta indica</i> leaves: Structural features, chemical modification and anti-bovine herpesvirus type 1 (BoHV-1) activity. <i>International Journal of Biological Macromolecules</i> , 2010, 47, 640-645.	3.6	43
27	Characterization of mucilage polysaccharides, arabinogalactanproteins and cell-wall hemicellulosic polysaccharides isolated from flax seed meal: A wealth of structural moieties. <i>Carbohydrate Polymers</i> , 2013, 93, 651-660.	5.1	43
28	Synthesis, molecular features and biological activities of modified plant polysaccharides. <i>Carbohydrate Polymers</i> , 2022, 289, 119299.	5.1	42
29	Structural characterisation of hemicellulosic polysaccharides from using specific enzyme hydrolysis, ion exchange chromatography and MALDI-TOF mass spectroscopy. <i>Carbohydrate Polymers</i> , 2005, 59, 231-238.	5.1	39
30	Herbal polysaccharides and cough reflex. <i>Respiratory Physiology and Neurobiology</i> , 2013, 187, 47-51.	0.7	39
31	Chemically Engineered Sulfated Glucans from Rice Bran Exert Strong Antiviral Activity at the Stage of Viral Entry. <i>Journal of Natural Products</i> , 2013, 76, 2180-2188.	1.5	38
32	Polysaccharides from <i>Moringa oleifera</i> gum: structural elements, interaction with $\beta$ -lactoglobulin and antioxidative activity. <i>RSC Advances</i> , 2016, 6, 75699-75706.	1.7	37
33	Chemical characterisation and gelling properties of cell wall polysaccharides from species of <i>Ulva</i> (Ulvales, Chlorophyta). <i>Hydrobiologia</i> , 1996, 326-327, 473-480.	1.0	36
34	Structural features and in vivo antitussive activity of the water extracted polymer from <i>Glycyrrhiza glabra</i> . <i>International Journal of Biological Macromolecules</i> , 2011, 48, 634-638.	3.6	36
35	Structural features and antitussive activity of water extracted polysaccharide from <i>Adhatoda vasica</i> . <i>Carbohydrate Polymers</i> , 2011, 83, 1970-1974.	5.1	36
36	Antioxidative Carbohydrate Polymer from <i>Enhydra fluctuans</i> and Its Interaction with Bovine Serum Albumin. <i>Biomacromolecules</i> , 2013, 14, 1761-1768.	2.6	33

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37	Chemically sulfated polysaccharides from natural sources: Assessment of extraction-sulfation efficiencies, structural features and antiviral activities. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 521-530.	3.6	33
38	Cell wall carbohydrates from fruit pulp of <i>Argania spinosa</i> : structural analysis of pectin and xyloglucan polysaccharides. <i>Carbohydrate Research</i> , 2008, 343, 67-72.	1.1	31
39	Exploiting the Amazing Diversity of Natural Source-Derived Polysaccharides: Modern Procedures of Isolation, Engineering, and Optimization of Antiviral Activities. <i>Polymers</i> , 2021, 13, 136.	2.0	24
40	Structural Elements and Cough Suppressing Activity of Polysaccharides from <i>Zingiber officinale</i> Rhizome. <i>Phytotherapy Research</i> , 2016, 30, 105-111.	2.8	23
41	In vivo cough suppressive activity of pectic polysaccharide with arabinogalactan type II side chains of <i>Piper nigrum</i> fruits and its synergistic effect with piperine. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 335-342.	3.6	23
42	Assessment of antiherpetic activity of nonsulfated and sulfated polysaccharides from <i>Azadirachta indica</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 137, 54-61.	3.6	23
43	Production and composition of extracellular polysaccharide synthesized by a <i>Rhizobium</i> isolate of <i>Vigna mungo</i> (L.) Hepper. <i>Biotechnology Letters</i> , 2007, 29, 1271-1275.	1.1	22
44	Polysaccharides from <i>Thymus vulgaris</i> leaf: Structural features, antioxidant activity and interaction with bovine serum albumin. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 580-587.	3.6	21
45	Chemical structure of the arabinogalactan protein from gum ghatti and its interaction with bovine serum albumin. <i>Carbohydrate Polymers</i> , 2015, 117, 370-376.	5.1	20
46	In vitro anti-oxidant activity, fluorescence quenching study and structural features of carbohydrate polymers from <i>Phyllanthus emblica</i> . <i>International Journal of Biological Macromolecules</i> , 2011, 49, 637-642.	3.6	19
47	Polysaccharides from <i>Sesamum indicum</i> meal: Isolation and structural features. <i>Food Chemistry</i> , 2005, 90, 719-726.	4.2	18
48	Antiviral Strategies Using Natural Source-Derived Sulfated Polysaccharides in the Light of the COVID-19 Pandemic and Major Human Pathogenic Viruses. <i>Viruses</i> , 2022, 14, 35.	1.5	18
49	Antitussive Activity of the Water-Extracted Carbohydrate Polymer from <i>Terminalia chebula</i> on Citric Acid-Induced Cough. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-7.	0.5	17
50	Interaction with bovine serum albumin of an anti-oxidative pectic arabinogalactan from <i>Andrographis paniculata</i> . <i>Carbohydrate Polymers</i> , 2014, 101, 342-348.	5.1	16
51	Anti-Cytomegalovirus Activity of Sulfated Glucans Generated from a Commercial Preparation of Rice Bran. <i>Antiviral Chemistry and Chemotherapy</i> , 2010, 21, 85-95.	0.3	15
52	Antitussive arabinogalactan of <i>Andrographis paniculata</i> demonstrates synergistic effect with andrographolide. <i>International Journal of Biological Macromolecules</i> , 2014, 69, 151-157.	3.6	15
53	Cell wall polysaccharides of <i>Brassica campestris</i> seed cake: isolation and structural features. <i>Carbohydrate Polymers</i> , 2004, 57, 7-13.	5.1	14
54	Additionally sulfated xylomannan sulfates from <i>Scinaia hatei</i> and their antiviral activities. <i>Carbohydrate Polymers</i> , 2015, 131, 315-321.	5.1	14

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55	Chemically sulfated arabinoxylans from <i>Plantago ovata</i> seed husk: Synthesis, characterization and antiviral activity. <i>Carbohydrate Polymers</i> , 2021, 256, 117555.	5.1	14
56	Chemical profile of a polysaccharide from <i>Psidium guajava</i> leaves and its $\text{in vivo}$ antitussive activity. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 681-686.	3.6	13
57	Isolation, purification and some structural features of the mucilaginous exudate from <i>Musa paradisiaca</i> . <i>FÄ-toterapÄ-Äç</i> , 2001, 72, 263-271.	1.1	12
58	$\text{In vivo}$ antitussive activity of a pectic arabinogalactan isolated from <i>Solanum virginianum</i> L. in Guinea pigs. <i>Journal of Ethnopharmacology</i> , 2014, 156, 41-46.	2.0	11
59	Isolation and structural features of an antiradical polysaccharide of <i>Capsicum annuum</i> that interacts with BSA. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 144-151.	3.6	11
60	Structural studies of a polysaccharide from the seeds of <i>Nelumbo nucifera</i> . <i>Carbohydrate Research</i> , 1992, 224, 331-335.	1.1	10
61	Cell-wall polysaccharides from the fruits of <i>Limonia acidissima</i> : isolation, purification and chemical investigation. <i>Carbohydrate Polymers</i> , 2002, 48, 209-212.	5.1	10
62	$\text{In vivo}$ anti-tussive activity and structural features of a polysaccharide fraction from water extracted <i>Withania somnifera</i> . <i>Journal of Ethnopharmacology</i> , 2011, 134, 510-513.	2.0	10
63	Isolation, structural features, $\text{in vitro}$ antioxidant activity and assessment of complexation ability with $\beta$ -lactoglobulin of a polysaccharide from <i>Borassus flabellifer</i> fruit. <i>Heliyon</i> , 2020, 6, e05499.	1.4	10
64	The heteropolysaccharide of <i>Mangifera indica</i> fruit: Isolation, chemical profile, complexation with $\beta$ -lactoglobulin and antioxidant activity. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 93-99.	3.6	10
65	Structure, fluorescence quenching and antioxidant activity of a carbohydrate polymer from <i>Eugenia jambolana</i> . <i>International Journal of Biological Macromolecules</i> , 2012, 51, 158-164.	3.6	9
66	Structural insight of an antioxidative arabinogalactan protein of <i>Aegle marmelos</i> fruit gum and its interaction with $\beta$ -lactoglobulin. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 300-307.	3.6	9
67	Extracellular glycoconjugates produced by cyanobacterium <i>Wolleea saccata</i> . <i>International Journal of Biological Macromolecules</i> , 2011, 48, 553-557.	3.6	8
68	The heparin-mimicking arabinogalactan sulfates from <i>Anogeissus latifolia</i> gum: Production, structures, and anti-herpes simplex virus activity. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 1419-1426.	3.6	8
69	Structural studies of a polysaccharide from the seeds of <i>Salmalia malabarica</i> . <i>Carbohydrate Research</i> , 1990, 207, 336-339.	1.1	6
70	Structural features of a water soluble gum polysaccharide from <i>Murraya paniculata</i> fruits. <i>International Journal of Biological Macromolecules</i> , 2001, 29, 169-174.	3.6	6
71	Structural characteristics, fluorescence quenching, and antioxidant activity of the arabinogalactan protein-rich fraction from senna ( <i>Cassia angustifolia</i> ) leaves. <i>Food Science and Biotechnology</i> , 2011, 20, 1005-1011.	1.2	6
72	Isolation and structural elements of a water-soluble free radical scavenger from <i>Nyctanthes arbor-tristis</i> leaves. <i>Phytochemistry</i> , 2015, 115, 20-26.	1.4	6

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73	Conjugation reaction with ferulic acid boosts the antioxidant property of arabinogalactan-protein and enhances its ability to form complex with $\beta$ -lactoglobulin. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 587-594.	3.6	6
74	Carbohydrate polymers of chirata ( <i>Swertia chirata</i> ) leaves: Structural features, in vitro anti-oxidant activity and fluorescence quenching study. <i>Food Science and Biotechnology</i> , 2012, 21, 409-417.	1.2	5
75	Structural highlights of an antioxidative arabinogalactan protein of <i>Lanea grandis</i> gum that stabilizes $\beta$ -lactoglobulin. <i>Food Hydrocolloids</i> , 2016, 61, 720-729.	5.6	5
76	Structural studies of a neutral polysaccharide from the root bulb of <i>Mirabilis jalapa</i> . <i>Carbohydrate Research</i> , 1988, 176, 324-328.	1.1	4
77	Structural studies of an acidic polysaccharide from the seeds of <i>Acacia auriculaeformis</i> A. Cunn. <i>Carbohydrate Research</i> , 1989, 185, 105-112.	1.1	4
78	Antitussive Activity of <i>Withania somnifera</i> and Opioid Receptors. <i>Advances in Experimental Medicine and Biology</i> , 2014, 838, 19-25.	0.8	4
79	Extracted polysaccharide from <i>Nyctanthes arbor-tristis</i> leaves: Chemical and antitussive properties. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 128-132.	3.6	4
80	Structural Elements of an Antioxidative Pectic Arabinogalactan from <i>Solanum virginianum</i> . <i>Planta Medica Letters</i> , 2015, 2, e57-e60.	0.2	3
81	Influence of viscous <i>Rhodella grisea</i> (Rhodophyceae) proteoglycan on chemically induced cough reflex. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 1046-1050.	3.6	2