

Bimalendu Ray

List of Publications by Year in Descending Order

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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.

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|-------------------|-------------------------|----------------|---------------|
| 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 | Synthesis, molecular features and biological activities of modified plant polysaccharides.. <i>Carbohydrate Polymers</i> , 2022 , 289, 119299 | 10.3 | 2 |
| 80 | The heparin-mimicking arabinogalactan sulfates from Anogeissus latifolia gum: Production, structures, and anti-herpes simplex virus activity. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 1419-1426 | 7.9 | 3 |
| 79 | Conjugation reaction with ferulic acid boosts the antioxidant property of arabinogalactan-protein and enhances its ability to form complex with β -lactoglobulin. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 587-594 | 7.9 | 1 |
| 78 | Chemically sulfated arabinoxylans from Plantago ovata seed husk: Synthesis, characterization and antiviral activity. <i>Carbohydrate Polymers</i> , 2021 , 256, 117555 | 10.3 | 4 |
| 77 | Antiviral Strategies Using Natural Source-Derived Sulfated Polysaccharides in the Light of the COVID-19 Pandemic and Major Human Pathogenic Viruses.. <i>Viruses</i> , 2021 , 14, | 6.2 | 7 |
| 76 | Exploiting the Amazing Diversity of Natural Source-Derived Polysaccharides: Modern Procedures of Isolation, Engineering, and Optimization of Antiviral Activities. <i>Polymers</i> , 2020 , 13, | 4.5 | 11 |
| 75 | The heteropolysaccharide of Mangifera indica fruit: Isolation, chemical profile, complexation with β -lactoglobulin and antioxidant activity. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 93-99 | 7.9 | 4 |
| 74 | Isolation, structural features, in vitro antioxidant activity and assessment of complexation ability with β -lactoglobulin of a polysaccharide from fruit. <i>Heliyon</i> , 2020 , 6, e05499 | 3.6 | 6 |
| 73 | Assessment of antiherpetic activity of nonsulfated and sulfated polysaccharides from Azadirachta indica. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 54-61 | 7.9 | 13 |
| 72 | 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 | 7.9 | 25 |
| 71 | Polysaccharides from Thymus vulgaris leaf: Structural features, antioxidant activity and interaction with bovine serum albumin. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 580-587 | 7.9 | 15 |
| 70 | Chemical profile of a polysaccharide from Psidium guajava leaves and its <i>in vivo</i> antitussive activity. <i>International Journal of Biological Macromolecules</i> , 2018 , 109, 681-686 | 7.9 | 10 |
| 69 | Structural insight of an antioxidative arabinogalactan protein of Aegle marmelos fruit gum and its interaction with β -lactoglobulin. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 300-307 | 7.9 | 8 |
| 68 | In vivo cough suppressive activity of pectic polysaccharide with arabinogalactan type II side chains of Piper nigrum fruits and its synergistic effect with piperine. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 335-342 | 7.9 | 15 |
| 67 | Green seaweed Enteromorpha compressa (Chlorophyta, Ulvaceae) derived sulphated polysaccharides inhibit herpes simplex virus. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 605-612 | 7.9 | 57 |
| 66 | Structural highlights of an antioxidative arabinogalactan protein of Lannea grandis gum that stabilizes β -lactoglobulin. <i>Food Hydrocolloids</i> , 2016 , 61, 720-729 | 10.6 | 3 |
| 65 | Polysaccharides from Moringa oleifera gum: structural elements, interaction with β -lactoglobulin and antioxidative activity. <i>RSC Advances</i> , 2016 , 6, 75699-75706 | 3.7 | 28 |

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| 64 | Structural Elements and Cough Suppressing Activity of Polysaccharides from Zingiber officinale Rhizome. <i>Phytotherapy Research</i> , 2016 , 30, 105-11 | 6.7 | 11 |
| 63 | Isolation and structural features of an antiradical polysaccharide of Capsicum annuum that interacts with BSA. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 144-51 | 7.9 | 7 |
| 62 | Isolation and structural elements of a water-soluble free radical scavenger from Nyctanthes arbor-tristis leaves. <i>Phytochemistry</i> , 2015 , 115, 20-6 | 4 | 4 |
| 61 | Additionally sulfated xylomannan sulfates from Scinaia hatei and their antiviral activities. <i>Carbohydrate Polymers</i> , 2015 , 131, 315-21 | 10.3 | 12 |
| 60 | Chemical structure of the arabinogalactan protein from gum ghatti and its interaction with bovine serum albumin. <i>Carbohydrate Polymers</i> , 2015 , 117, 370-376 | 10.3 | 14 |
| 59 | Structural Elements of an Antioxidative Pectic Arabinogalactan from Solanum virginianum. <i>Planta Medica Letters</i> , 2015 , 2, e57-e60 | | 2 |
| 58 | Extracted polysaccharide from Nyctanthes arbor-tristis leaves: chemical and antitussive properties. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 128-32 | 7.9 | 3 |
| 57 | Antitussive activity of Withania somnifera and opioid receptors. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 838, 19-25 | 3.6 | 4 |
| 56 | In vivo antitussive activity of a pectic arabinogalactan isolated from Solanum virginianum L. in Guinea pigs. <i>Journal of Ethnopharmacology</i> , 2014 , 156, 41-6 | 5 | 10 |
| 55 | Antitussive arabinogalactan of Andrographis paniculata demonstrates synergistic effect with andrographolide. <i>International Journal of Biological Macromolecules</i> , 2014 , 69, 151-7 | 7.9 | 11 |
| 54 | Interaction with bovine serum albumin of an anti-oxidative pectic arabinogalactan from Andrographis paniculata. <i>Carbohydrate Polymers</i> , 2014 , 101, 342-8 | 10.3 | 13 |
| 53 | Herbal polysaccharides and cough reflex. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 187, 47-51 | 2.8 | 30 |
| 52 | 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, 2180-8 | 4.9 | 33 |
| 51 | 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, 651-60 | 10.3 | 35 |
| 50 | Antioxidative carbohydrate polymer from Enhydra fluctuans and its interaction with bovine serum albumin. <i>Biomacromolecules</i> , 2013 , 14, 1761-8 | 6.9 | 26 |
| 49 | Antitussive Activity of the Water-Extracted Carbohydrate Polymer from Terminalia chebula on Citric Acid-Induced Cough. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013 , 2013, 650134 | 2.3 | 13 |
| 48 | Antiviral activity against dengue virus of diverse classes of algal sulfated polysaccharides. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 412-6 | 7.9 | 63 |
| 47 | The in vitro antiviral property of Azadirachta indica polysaccharides for poliovirus. <i>Journal of Ethnopharmacology</i> , 2012 , 142, 86-90 | 5 | 48 |

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| 46 | Structure, fluorescence quenching and antioxidant activity of a carbohydrate polymer from <i>Eugenia jambolana</i> . <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 158-64 | 7.9 | 6 |
| 45 | 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 | 3 | 4 |
| 44 | Sulfated polysaccharides from <i>Laminaria angustata</i> : Structural features and in vitro antiviral activities. <i>Carbohydrate Polymers</i> , 2012 , 87, 123-130 | 10.3 | 56 |
| 43 | Extracellular glycoconjugates produced by cyanobacterium <i>Wolleea saccata</i> . <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 553-7 | 7.9 | 7 |
| 42 | 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, 634-8 | 7.9 | 29 |
| 41 | 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, 637-42 | 7.9 | 17 |
| 40 | Influence of viscous <i>Rhodella grisea</i> (Rhodophyceae) proteoglycan on chemically induced cough reflex. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 1046-50 | 7.9 | 2 |
| 39 | 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, 510-3 | 5 | 9 |
| 38 | 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 | 3 | 5 |
| 37 | Structural features and in vitro antiviral activities of sulfated polysaccharides from <i>Sphacelaria indica</i> . <i>Phytochemistry</i> , 2011 , 72, 276-83 | 4 | 61 |
| 36 | Structural features and antitussive activity of water extracted polysaccharide from <i>Adhatoda vasica</i> . <i>Carbohydrate Polymers</i> , 2011 , 83, 1970-1974 | 10.3 | 32 |
| 35 | Xylans from <i>Scinaia hatei</i> : Structural features, sulfation and anti-HSV activity. <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 173-8 | 7.9 | 39 |
| 34 | 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, 640-5 | 7.9 | 34 |
| 33 | Anti-cytomegalovirus activity of sulfated glucans generated from a commercial preparation of rice bran. <i>Antiviral Chemistry and Chemotherapy</i> , 2010 , 21, 85-95 | 3.5 | 13 |
| 32 | Polysaccharides from <i>Sargassum tenerrimum</i> : structural features, chemical modification and anti-viral activity. <i>Phytochemistry</i> , 2010 , 71, 235-42 | 4 | 127 |
| 31 | Polysaccharides from <i>Padina tetrastomatica</i> : Structural features, chemical modification and antiviral activity. <i>Carbohydrate Polymers</i> , 2010 , 80, 513-520 | 10.3 | 67 |
| 30 | Polysaccharides from <i>Turbinaria conoides</i> : Structural features and antioxidant capacity. <i>Food Chemistry</i> , 2010 , 118, 823-829 | 8.5 | 121 |
| 29 | 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, 235-42 | 3.5 | 52 |

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| 28 | Polysaccharides from the brown seaweed <i>Padina tetrastomatica</i> : Characterization of a sulfated fucan. <i>Carbohydrate Polymers</i> , 2009 , 78, 416-421 | 10.3 | 46 |
| 27 | Focus on antivirally active sulfated polysaccharides: from structure-activity analysis to clinical evaluation. <i>Glycobiology</i> , 2009 , 19, 2-15 | 5.8 | 295 |
| 26 | Polysaccharides from <i>Gracilaria corticata</i> : sulfation, chemical characterization and anti-HSV activities. <i>International Journal of Biological Macromolecules</i> , 2008 , 43, 346-51 | 7.9 | 57 |
| 25 | Anti-herpetic activity of a sulfated xylomannan from <i>Scinaia hatei</i> . <i>Phytochemistry</i> , 2008 , 69, 2193-9 | 4 | 77 |
| 24 | 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 | 2.9 | 28 |
| 23 | Polysaccharides from <i>Caulerpa racemosa</i> : Purification and structural features. <i>Carbohydrate Polymers</i> , 2007 , 68, 407-415 | 10.3 | 31 |
| 22 | Sulphated polysaccharides from Indian samples of <i>Enteromorpha compressa</i> (Ulvaes, Chlorophyta): Isolation and structural features. <i>Food Chemistry</i> , 2007 , 104, 928-935 | 8.5 | 55 |
| 21 | 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, 1271-5 | 3 | 18 |
| 20 | Galactan sulfate of <i>Grateloupia indica</i> : Isolation, structural features and antiviral activity. <i>Phytochemistry</i> , 2007 , 68, 1428-35 | 4 | 62 |
| 19 | Structural features and antiviral activity of sulphated fucans from the brown seaweed <i>Cystoseira indica</i> . <i>Antiviral Chemistry and Chemotherapy</i> , 2007 , 18, 153-62 | 3.5 | 138 |
| 18 | Polysaccharides from <i>Enteromorpha compressa</i> : Isolation, purification and structural features. <i>Carbohydrate Polymers</i> , 2006 , 66, 408-416 | 10.3 | 126 |
| 17 | Structure and antiviral activity of sulfated fucans from <i>Stoechospermum marginatum</i> . <i>Phytochemistry</i> , 2006 , 67, 2474-82 | 4 | 155 |
| 16 | Structural characterisation of hemicellulosic polysaccharides from <i>Benincasa hispida</i> using specific enzyme hydrolysis, ion exchange chromatography and MALDI-TOF mass spectroscopy. <i>Carbohydrate Polymers</i> , 2005 , 59, 231-238 | 10.3 | 35 |
| 15 | Polysaccharides from <i>Sesamum indicum</i> meal: Isolation and structural features. <i>Food Chemistry</i> , 2005 , 90, 719-726 | 8.5 | 15 |
| 14 | In vitro anti-herpetic activity of sulfated polysaccharide fractions from <i>Caulerpa racemosa</i> . <i>Phytochemistry</i> , 2004 , 65, 3151-7 | 4 | 136 |
| 13 | Cell wall polysaccharides of <i>Brassica campestris</i> seed cake: isolation and structural features. <i>Carbohydrate Polymers</i> , 2004 , 57, 7-13 | 10.3 | 13 |
| 12 | Structural investigation of hemicellulosic polysaccharides from <i>Argania spinosa</i> : characterisation of a novel xyloglucan motif. <i>Carbohydrate Research</i> , 2004 , 339, 201-8 | 2.9 | 74 |
| 11 | Cell wall polysaccharides from chalkumra (<i>Benincasa hispida</i>) fruit. Part I. Isolation and characterization of pectins. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 3556-62 | 5.7 | 48 |

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| 10 | Cell-wall polysaccharides from the fruits of <i>Limonia acidissima</i> : isolation, purification and chemical investigation. <i>Carbohydrate Polymers</i> , 2002 , 48, 209-212 | 10.3 | 8 |
| 9 | 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 | 7.9 | 139 |
| 8 | Isolation, purification and some structural features of the mucilaginous exudate from <i>Musa paradisiaca</i> . <i>Floterap</i> , 2001 , 72, 263-71 | 3.2 | 10 |
| 7 | Structural features of a water soluble gum polysaccharide from <i>Murraya paniculata</i> fruits. <i>International Journal of Biological Macromolecules</i> , 2001 , 29, 169-74 | 7.9 | 4 |
| 6 | Cell-wall polysaccharides from the marine green alga <i>Ulva "rigida"</i> (Ulvales, Chlorophyta)--NMR analysis of ulvan oligosaccharides. <i>Carbohydrate Research</i> , 1996 , 283, 161-73 | 2.9 | 143 |
| 5 | 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 | 2.4 | 35 |
| 4 | Structural studies of a polysaccharide from the seeds of <i>Nelumbo nucifera</i> . <i>Carbohydrate Research</i> , 1992 , 224, 331-335 | 2.9 | 8 |
| 3 | Structural studies of a polysaccharide from the seeds of <i>Salmalia malabarica</i> . <i>Carbohydrate Research</i> , 1990 , 207, 336-339 | 2.9 | 6 |
| 2 | Structural studies of an acidic polysaccharide from the seeds of <i>Acacia auriculaeformis</i> A. Cunn. <i>Carbohydrate Research</i> , 1989 , 185, 105-112 | 2.9 | 3 |
| 1 | Structural studies of a neutral polysaccharide from the root bulb of <i>Mirabilis jalapa</i> . <i>Carbohydrate Research</i> , 1988 , 176, 324-328 | 2.9 | 3 |