

Sayani Ray

List of Publications by Year in descending order

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papers

691
citations

623574

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552653

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816
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Characterization of mucilage polysaccharides, arabinogalactan proteins 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
5	Synthesis, molecular features and biological activities of modified plant polysaccharides. <i>Carbohydrate Polymers</i> , 2022, 289, 119299.	5.1	42
6	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
7	Novel and diverse fine structures in LiCl/DMSO extracted apple hemicelluloses. <i>Carbohydrate Polymers</i> , 2014, 108, 46-57.	5.1	34
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	Additionally sulfated xylomannan sulfates from <i>Scinaia hatei</i> and their antiviral activities. <i>Carbohydrate Polymers</i> , 2015, 131, 315-321.	5.1	14
17	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
18	Chemical profile of a polysaccharide from <i>Psidium guajava</i> leaves and its in vivo antitussive activity. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 681-686.	3.6	13

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19	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
20	Isolation, structural features, in vitro antioxidant activity and assessment of complexation ability with β -lactoglobulin of a polysaccharide from <i>Borassus flabellifer</i> fruit. <i>Heliyon</i> , 2020, 6, e05499.	1.4	10
21	The heteropolysaccharide of <i>Mangifera indica</i> fruit: Isolation, chemical profile, complexation with β -lactoglobulin and antioxidant activity. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 93-99.	3.6	10
22	Structural insight of an antioxidative arabinogalactan protein of <i>Aegle marmelos</i> fruit gum and its interaction with β -lactoglobulin. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 300-307.	3.6	9
23	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
24	Functional exploration of <i>Pseudoalteromonas atlantica</i> as a source of hemicellulose-active enzymes: Evidence for a GH8 xylanase with unusual mode of action. <i>Enzyme and Microbial Technology</i> , 2019, 127, 6-16.	1.6	7
25	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
26	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.	3.6	6
27	Structural highlights of an antioxidative arabinogalactan protein of <i>Lanea grandis</i> gum that stabilizes β -lactoglobulin. <i>Food Hydrocolloids</i> , 2016, 61, 720-729.	5.6	5
28	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