

Huahua Yu

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122
papers

3,248
citations

33
h-index

51
g-index

128
ext. papers

3,947
ext. citations

5.6
avg, IF

5.4
L-index

#	Paper	IF	Citations
122	The synthesis and antioxidant activity of the Schiff bases of chitosan and carboxymethyl chitosan. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 4600-3	2.9	217
121	Relevance of molecular weight of chitosan and its derivatives and their antioxidant activities in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 1573-7	3.4	215
120	Antioxidant activity of differently regioselective chitosan sulfates in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 1387-92	3.4	201
119	Novel derivatives of chitosan and their antifungal activities in vitro. <i>Carbohydrate Research</i> , 2006 , 341, 351-4	2.9	134
118	Salt-assisted acid hydrolysis of chitosan to oligomers under microwave irradiation. <i>Carbohydrate Research</i> , 2005 , 340, 2150-3	2.9	92
117	Advances in preparation, analysis and biological activities of single chitooligosaccharides. <i>Carbohydrate Polymers</i> , 2016 , 139, 178-90	10.3	87
116	Jellyfish venomics and venom gland transcriptomics analysis of <i>Stomolophus meleagris</i> to reveal the toxins associated with sting. <i>Journal of Proteomics</i> , 2014 , 106, 17-29	3.9	84
115	Preparation of low-molecular-weight and high-sulfate-content chitosans under microwave radiation and their potential antioxidant activity in vitro. <i>Carbohydrate Research</i> , 2004 , 339, 2515-9	2.9	74
114	Effect of chitooligosaccharides with different degrees of acetylation on wheat seedlings under salt stress. <i>Carbohydrate Polymers</i> , 2015 , 126, 62-9	10.3	73
113	Advances in chitosan-based nanoparticles for oncotherapy. <i>Carbohydrate Polymers</i> , 2019 , 222, 115004	10.3	67
112	Synthesis of chitosan derivative graft acrylic acid superabsorbent polymers and its application as water retaining agent. <i>International Journal of Biological Macromolecules</i> , 2018 , 115, 754-761	7.9	64
111	Novel thiosemicarbazone chitosan derivatives: Preparation, characterization, and antifungal activity. <i>Carbohydrate Polymers</i> , 2012 , 87, 2664-2670	10.3	52
110	Radical scavenging activity of protein from tentacles of jellyfish <i>Rhopilema esculentum</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2659-64	2.9	52
109	Monomer composition of chitooligosaccharides obtained by different degradation methods and their effects on immunomodulatory activities. <i>Carbohydrate Polymers</i> , 2017 , 157, 1288-1297	10.3	48
108	Characterization and Comparison of the Structural Features, Immune-Modulatory and Anti-Avian Influenza Virus Activities Conferred by Three Algal Sulfated Polysaccharides. <i>Marine Drugs</i> , 2015 , 14, 4	6	46
107	Insecticidal activity of proteinous venom from tentacle of jellyfish <i>Rhopilema esculentum</i> Kishinouye. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 4949-52	2.9	45
106	Partial Characterization, the Immune Modulation and Anticancer Activities of Sulfated Polysaccharides from Filamentous Microalgae sp. <i>Molecules</i> , 2019 , 24,	4.8	44

105	Synthesis, characterization, and antifungal evaluation of diethoxyphosphoryl polyaminoethyl chitosan derivatives. <i>Carbohydrate Polymers</i> , 2018 , 190, 1-11	10.3	42
104	Molecular weight and pH effects of aminoethyl modified chitosan on antibacterial activity in vitro. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 918-24	7.9	41
103	Characterization, Preparation, and Purification of Marine Bioactive Peptides. <i>BioMed Research International</i> , 2017 , 2017, 9746720	3	40
102	Immunostimulatory effects of sulfated chitosans on RAW 264.7 mouse macrophages via the activation of PI3K/Akt signaling pathway. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 1310-1321	7.9	40
101	Synthesis and characterization of dithiocarbamate chitosan derivatives with enhanced antifungal activity. <i>Carbohydrate Polymers</i> , 2012 , 89, 388-93	10.3	39
100	Relevance of molecular weight of chitosan-N-2-hydroxypropyl trimethyl ammonium chloride and their antioxidant activities. <i>European Journal of Medicinal Chemistry</i> , 2008 , 43, 336-40	6.8	38
99	Synthesis, characterization and antifungal efficacy of chitosan derivatives with triple quaternary ammonium groups. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 942-949	7.9	37
98	miRNA and mRNA Expression Profiles Reveal Insight into Chitosan-Mediated Regulation of Plant Growth. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 3810-3822	5.7	37
97	Factors affecting the protease activity of venom from jellyfish <i>Rhopilema esculentum</i> Kishinouye. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5370-4	2.9	37
96	Size effects of chitooligomers on the growth and photosynthetic characteristics of wheat seedlings. <i>Carbohydrate Polymers</i> , 2016 , 138, 27-33	10.3	35
95	Synthesis of superabsorbent polymers based on chitosan derivative graft acrylic acid-co-acrylamide and its property testing. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 575-584	7.9	34
94	Effect and mechanism of mackerel (<i>Pneumatophorus japonicus</i>) peptides for anti-fatigue. <i>Food and Function</i> , 2014 , 5, 2113-9	6.1	34
93	Isolation and characterization of lethal proteins in nematocyst venom of the jellyfish <i>Cyanea nozakii</i> Kishinouye. <i>Toxicon</i> , 2010 , 55, 118-25	2.8	34
92	Design, synthesis and antimicrobial activity of 6-N-substituted chitosan derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 4548-4551	2.9	33
91	Effect of the molecular weight of water-soluble chitosan on its fat-/cholesterol-binding capacities and inhibitory activities to pancreatic lipase. <i>PeerJ</i> , 2017 , 5, e3279	3.1	33
90	Size and pH effects of chitooligomers on antibacterial activity against <i>Staphylococcus aureus</i> . <i>International Journal of Biological Macromolecules</i> , 2014 , 64, 302-5	7.9	33
89	Comparison of antifungal activities of scallop shell, oyster shell and their pyrolyzed products. <i>Egyptian Journal of Aquatic Research</i> , 2013 , 39, 83-90	3.1	31
88	C-coordinated O-carboxymethyl chitosan metal complexes: Synthesis, characterization and antifungal efficacy. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 68-77	7.9	31

87	Relationship between the Degree of Polymerization of Chitooligomers and Their Activity Affecting the Growth of Wheat Seedlings under Salt Stress. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 501-509	5.7	30
86	Combined proteomics and transcriptomics identifies sting-related toxins of jellyfish <i>Cyanea nozakii</i> . <i>Journal of Proteomics</i> , 2016 , 148, 57-64	3.9	29
85	Isolation, identification and characterization of a novel antioxidant protein from the nematocyst of the jellyfish <i>Stomolophus meleagris</i> . <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 274-8	7.9	28
84	Immunostimulatory Effects of Chitooligosaccharides on RAW 264.7 Mouse Macrophages via Regulation of the MAPK and PI3K/Akt Signaling Pathways. <i>Marine Drugs</i> , 2019 , 17,	6	27
83	Chitosan, hydroxypropyltrimethyl ammonium chloride chitosan and sulfated chitosan nanoparticles as adjuvants for inactivated Newcastle disease vaccine. <i>Carbohydrate Polymers</i> , 2020 , 229, 115423	10.3	27
82	Application of nanoLC-MS/MS to the shotgun proteomic analysis of the nematocyst proteins from jellyfish <i>Stomolophus meleagris</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 899, 86-95	3.2	26
81	Factors influencing hemolytic activity of venom from the jellyfish <i>Rhopilema esculentum</i> Kishinouye. <i>Food and Chemical Toxicology</i> , 2007 , 45, 1173-8	4.7	26
80	Vascular targeted chitosan-derived nanoparticles as docetaxel carriers for gastric cancer therapy. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 662-672	7.9	26
79	The antiviral property of <i>Sargassum fusiforme</i> polysaccharide for avian leukosis virus subgroup J in vitro and in vivo. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 70-78	7.9	25
78	High-resolution separation of homogeneous chitooligomers series from 2-mers to 7-mers by ion-exchange chromatography. <i>Journal of Separation Science</i> , 2013 , 36, 1275-82	3.4	25
77	Chitin extraction from shrimp (<i>Litopenaeus vannamei</i>) shells by successive two-step fermentation with <i>Lactobacillus rhamnoides</i> and <i>Bacillus amyloliquefaciens</i> . <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 424-433	7.9	24
76	Isolation and in vitro partial characterization of hemolytic proteins from the nematocyst venom of the jellyfish <i>Stomolophus meleagris</i> . <i>Toxicology in Vitro</i> , 2013 , 27, 1620-5	3.6	24
75	Synthesis and antifungal evaluation of (1,2,3-triazol-4-yl)methyl nicotinate chitosan. <i>International Journal of Biological Macromolecules</i> , 2013 , 61, 58-62	7.9	23
74	The improved antiviral activities of amino-modified chitosan derivatives on Newcastle virus. <i>Drug and Chemical Toxicology</i> , 2021 , 44, 335-340	2.3	23
73	Synthesis and antifungal properties of (4-tolyloxy)-pyrimidyl-aminophosphonates chitosan derivatives. <i>International Journal of Biological Macromolecules</i> , 2014 , 63, 83-91	7.9	22
72	Immunostimulatory effect of chitosan and quaternary chitosan: A review of potential vaccine adjuvants. <i>Carbohydrate Polymers</i> , 2021 , 264, 118050	10.3	22
71	Hydroxypropyltrimethyl ammonium chloride chitosan activates RAW 264.7 macrophages through the MAPK and JAK-STAT signaling pathways. <i>Carbohydrate Polymers</i> , 2019 , 205, 401-409	10.3	22
70	Polysaccharides from <i>Grateloupia filicina</i> enhance tolerance of rice seeds (<i>Oryza sativa</i> L.) under salt stress. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 1197-1204	7.9	22

69	Comparison in docetaxel-loaded nanoparticles based on three different carboxymethyl chitosans. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 1012-1018	7.9	21
68	Synthesis, characterization and antifungal efficacy of C-coordinated O-carboxymethyl chitosan Cu(II) complexes. <i>Carbohydrate Polymers</i> , 2017 , 160, 97-105	10.3	21
67	In vitro prebiotic effects of seaweed polysaccharides. <i>Journal of Oceanology and Limnology</i> , 2018 , 36, 926-932	1.5	21
66	Partial characterization of the hemolytic activity of the nematocyst venom from the jellyfish <i>Cyanea nozakii</i> Kishinouye. <i>Toxicology in Vitro</i> , 2010 , 24, 1750-6	3.6	19
65	Exploring the Antibacterial and Antifungal Potential of Jellyfish-Associated Marine Fungi by Cultivation-Dependent Approaches. <i>PLoS ONE</i> , 2015 , 10, e0144394	3.7	18
64	Studies on the hemolytic activity of tentacle extracts of jellyfish <i>Rhopilema esculentum</i> Kishinouye: application of orthogonal test. <i>International Journal of Biological Macromolecules</i> , 2007 , 40, 276-80	7.9	17
63	In depth analysis of the in vivo toxicity of venom from the jellyfish <i>Stomolophus meleagris</i> . <i>Toxicon</i> , 2014 , 92, 60-5	2.8	16
62	Preparation and characterization of controlled-release fertilizers coated with marine polysaccharide derivatives. <i>Chinese Journal of Oceanology and Limnology</i> , 2017 , 35, 1086-1093		16
61	Preparation of low molecular weight <i>Sargassum fusiforme</i> polysaccharide and its anticoagulant activity. <i>Journal of Oceanology and Limnology</i> , 2018 , 36, 882-891	1.5	16
60	Effect and mechanism of oyster hydrolytic peptides on spatial learning and memory in mice.. <i>RSC Advances</i> , 2018 , 8, 6125-6135	3.7	15
59	Degradation of Polysaccharides from <i>Grateloupia filicina</i> and Their Antiviral Activity to Avian Leucosis Virus Subgroup J. <i>Marine Drugs</i> , 2017 , 15,	6	15
58	Antidiabetic activity of differently regioselective chitosan sulfates in alloxan-induced diabetic rats. <i>Marine Drugs</i> , 2015 , 13, 3072-90	6	15
57	Synthesis of C-coordinated O-carboxymethyl chitosan metal complexes and evaluation of their antifungal activity. <i>Scientific Reports</i> , 2018 , 8, 4845	4.9	13
56	Amino acid composition and nutritional quality of gonad from jellyfish <i>Rhopilema esculentum</i> . <i>Biomedicine and Preventive Nutrition</i> , 2014 , 4, 399-402		13
55	Functional Elucidation of <i>Nemopilema nomurai</i> and <i>Cyanea nozakii</i> Nematocyst Venoms Lytic Activity Using Mass Spectrometry and Zymography. <i>Toxins</i> , 2017 , 9,	4.9	13
54	Two-step purification and in vitro characterization of a hemolysin from the venom of jellyfish <i>Cyanea nozakii</i> Kishinouye. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 14-9	7.9	13
53	Review: Advances in preparation of chitoooligosaccharides with heterogeneous sequences and their bioactivity. <i>Carbohydrate Polymers</i> , 2021 , 252, 117206	10.3	13
52	The bioactivity of new chitin oligosaccharide dithiocarbamate derivatives evaluated against nematode disease (<i>Meloidogyne incognita</i>). <i>Carbohydrate Polymers</i> , 2019 , 224, 115155	10.3	12

51	Synthesis of chitosan derivative with diethyldithiocarbamate and its antifungal activity. <i>International Journal of Biological Macromolecules</i> , 2014 , 65, 369-74	7.9	12
50	Biochemical and kinetic evaluation of the enzymatic toxins from two stinging scyphozoans <i>Nemopilema nomurai</i> and <i>Cyanea nozakii</i> . <i>Toxicon</i> , 2017 , 125, 1-12	2.8	12
49	Chitosan Oligosaccharide Fluorinated Derivative Control Root-Knot Nematode () Disease Based on the Multi-Efficacy Strategy. <i>Marine Drugs</i> , 2020 , 18,	6	12
48	Preparation, Characterization, and Insecticidal Activity of Avermectin-Grafted-Carboxymethyl Chitosan. <i>BioMed Research International</i> , 2016 , 2016, 9805675	3	12
47	Beta-chitosan extracted from <i>Loligo Japonica</i> for a potential use to inhibit Newcastle disease. <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 614-20	7.9	11
46	Sulfated Polysaccharides Isolated from Cloned <i>Grateloupia filicina</i> and Their Anticoagulant Activity. <i>BioMed Research International</i> , 2015 , 2015, 612352	3	10
45	Protective effect of sulfated chitosan of C3 sulfation on glycerol-induced acute renal failure in rat kidney. <i>International Journal of Biological Macromolecules</i> , 2014 , 65, 383-8	7.9	9
44	The Evaluation and Utilization of Marine-derived Bioactive Compounds with Anti-obesity Effect. <i>Current Medicinal Chemistry</i> , 2018 , 25, 861-878	4.3	9
43	Combined Proteome and Toxicology Approach Reveals the Lethality of Venom Toxins from Jellyfish <i>Cyanea nozakii</i> . <i>Journal of Proteome Research</i> , 2018 , 17, 3904-3913	5.6	9
42	β Aminobutyric acid ameliorates fluoride-induced hypothyroidism in male Kunming mice. <i>Life Sciences</i> , 2016 , 146, 1-7	6.8	8
41	Antiviral Activity against Avian Leucosis Virus Subgroup J of Degraded Polysaccharides from. <i>BioMed Research International</i> , 2018 , 2018, 9415965	3	8
40	Optimization of the Extraction and Stability of Antioxidative Peptides from Mackerel () Protein. <i>BioMed Research International</i> , 2017 , 2017, 6837285	3	8
39	Integrated proteomics and metabolomics analysis reveals the antifungal mechanism of the C-coordinated O-carboxymethyl chitosan Cu(II) complex. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1491-1509	7.9	8
38	The Acaricidal Activity of Venom from the Jellyfish <i>Nemopilema nomurai</i> against the Carmine Spider Mite <i>Tetranychus cinnabarinus</i> . <i>Toxins</i> , 2016 , 8,	4.9	8
37	Analysis of the protective effects of β aminobutyric acid during fluoride-induced hypothyroidism in male Kunming mice. <i>Pharmaceutical Biology</i> , 2019 , 57, 29-37	3.8	7
36	Preparation and Identification of Antioxidative Peptides from Pacific Herring () Protein. <i>Molecules</i> , 2019 , 24,	4.8	7
35	Purification and characterization of novel antioxidant peptides of different molecular weights from mackerel <i>Pneumatophorus japonicus</i> protein hydrolysate. <i>Chinese Journal of Oceanology and Limnology</i> , 2015 , 33, 159-168		7
34	The preparation and antioxidant activity of glucosamine sulfate. <i>Chinese Journal of Oceanology and Limnology</i> , 2009 , 27, 283-287		7

33	Highlights of animal venom research on the geographical variations of toxin components, toxicities and envenomation therapy. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2994-3006	7.9	7
32	Effects of chitooligosaccharides supplementation with different dosages, molecular weights and degrees of deacetylation on growth performance, innate immunity and hepatopancreas morphology in Pacific white shrimp (<i>Litopenaeus vannamei</i>). <i>Carbohydrate Polymers</i> , 2019 , 226, 115254	10.3	6
31	Liquid phase adsorption behavior of inulin-type fructan onto activated charcoal. <i>Carbohydrate Polymers</i> , 2015 , 122, 237-42	10.3	6
30	Effect of Venom from the Jellyfish <i>Nemopilema nomurai</i> on the Silkworm <i>Bombyx mori</i> L. <i>Toxins</i> , 2015 , 7, 3876-86	4.9	6
29	Efficacy of venom from tentacle of jellyfish <i>Stomolophus meleagris</i> (<i>Nemopilema nomurai</i>) against the cotton bollworm <i>Helicoverpa armigera</i> . <i>BioMed Research International</i> , 2014 , 2014, 315853	3	6
28	Insights into individual variations in nematocyst venoms from the giant jellyfish <i>Nemopilema nomurai</i> in the Yellow Sea. <i>Scientific Reports</i> , 2019 , 9, 3361	4.9	5
27	Inhibitory Effect of Metalloproteinase Inhibitors on Skin Cell Inflammation Induced by Jellyfish Nematocyst Venom. <i>Toxins</i> , 2019 , 11,	4.9	5
26	Rescuing fluoride-induced damages in liver with gamma aminobutyric acid. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 491, 19-24	3.4	5
25	Sulfated polysaccharides with antioxidant and anticoagulant activity from the sea cucumber <i>Holothuria fuscogлива</i> . <i>Chinese Journal of Oceanology and Limnology</i> , 2017 , 35, 763-769		5
24	Preparation and Antioxidant Activity of Chitosan Dimers with Different Sequences. <i>Marine Drugs</i> , 2021 , 19,	6	5
23	Purification and identification of antioxidative peptides from mackerel () protein.. <i>RSC Advances</i> , 2018 , 8, 20488-20498	3.7	4
22	Optimization of antioxidative peptides from mackerel () viscera. <i>PeerJ</i> , 2018 , 6, e4373	3.1	4
21	Preparation, characterization, and antifungal evaluation of a new type of aminourea chitooligosaccharide derivatives. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 841-850	1.5	4
20	Immunostimulatory effect of N-2-hydroxypropyltrimethyl ammonium chloride chitosan-sulfate chitosan complex nanoparticles on dendritic cells. <i>Carbohydrate Polymers</i> , 2021 , 251, 117098	10.3	4
19	Comprehensive Proteome Reveals the Key Lethal Toxins in the Venom of Jellyfish. <i>Journal of Proteome Research</i> , 2020 , 19, 2491-2500	5.6	3
18	Preparation of New Polysaccharide Long-Chain Alkyl Group Nanomicelles and Their Antiviral Properties against ALV-J. <i>Molecules</i> , 2021 , 26,	4.8	3
17	C-coordinated O-carboxymethyl chitosan Cu(II) complex exerts antifungal activity by disrupting the cell membrane integrity of <i>Phytophthora capsici</i> Leonian. <i>Carbohydrate Polymers</i> , 2021 , 261, 117821	10.3	3
16	The immunostimulatory effects of hydroxypropyltrimethyl ammonium chloride chitosan-carboxymethyl chitosan nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2021 , 181, 398-409	7.9	3

15	Topical Exposure to Venom Triggers Oedematogenic Effects: Enzymatic Contribution and Identification of Venom Metalloproteinase. <i>Toxins</i> , 2021 , 13,	4.9	2
14	Role of Fucoxanthin towards Cadmium-induced renal impairment with the antioxidant and anti-lipid peroxide activities. <i>Bioengineered</i> , 2021 , 12, 7235-7247	5.7	2
13	Identifying and revealing the geographical variation in Nemopilema nomurai venom metalloprotease and phospholipase A activities. <i>Chemosphere</i> , 2021 , 266, 129164	8.4	2
12	Synthesis and effects of the selective oxidation of chitosan in induced disease resistance against Botrytis cinerea. <i>Carbohydrate Polymers</i> , 2021 , 265, 118073	10.3	2
11	Jellyfish Nemopilema nomurai causes myotoxicity through the metalloprotease component of venom. <i>Biomedicine and Pharmacotherapy</i> , 2022 , 151, 113192	7.5	2
10	Optimization of Oyster () Protein Hydrolysates Using Response Surface Methodology. <i>Molecules</i> , 2020 , 25,	4.8	1
9	Investigation into the hemolytic activity of tentacle venom from jellyfish Cyanea nozakii Kishinouye. <i>Chinese Journal of Oceanology and Limnology</i> , 2016 , 34, 382-385		1
8	Updated descriptions of the nematocysts of the scyphozoan jellyfish Cyanea nozakii Kishinouye, 1891 (Cnidaria, Scyphozoa). <i>Toxicon</i> , 2020 , 187, 271-278	2.8	1
7	Characterization of Different Salt Forms of Chitooligosaccharides and Their Effects on Nitric Oxide Secretion by Macrophages. <i>Molecules</i> , 2021 , 26,	4.8	1
6	Isolation and identification of antimicrobial metabolites from sea anemone-derived fungus Emericella sp. SMA01. <i>Journal of Oceanology and Limnology</i> , 2021 , 39, 1010-1019	1.5	1
5	Fluoroalkenyl-Grafted Chitosan Oligosaccharide Derivative: An Exploration for Control Nematode Incognita.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
4	Synergistic Effect of Proteinase Activity by Purification and Identification of Toxic Protease From .. <i>Frontiers in Pharmacology</i> , 2021 , 12, 791847	5.6	0
3	Image Gallery: Skin lesions from jellyfish stings. <i>British Journal of Dermatology</i> , 2018 , 178, e393	4	
2	Immunostimulatory effect of quaternary degree and acetyl group of quaternized chitosan on macrophages RAW 264.7. <i>Journal of Oceanology and Limnology</i> , 1	1.5	
1	PI3K/Akt pathway is involved in the activation of RAW 264.7 cells induced by hydroxypropyltrimethyl ammonium chloride chitosan. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 834-840	1.5	