Wenqiang Tan

List of Publications by Year in Descending Order

99 papers	2,885 citations	30 h-index	50 g-index
103 ext. papers	3,450 ext. citations	6.3 avg, IF	5.33 L-index

#	Paper	IF	Citations
99	Synthesis and characterization of -lipoic acid grafted chitosan derivatives with antioxidant activity. *Reactive and Functional Polymers*, **2022**, 172, 105205	4.6	1
98	The influence of bioactive glyoxylate bearing Schiff base on antifungal and antioxidant activities to chitosan quaternary ammonium salts.. *Carbohydrate Polymers*, **2022**, 278, 118970	10.3	2
97	Enhanced antifungal and antioxidant activities of new chitosan derivatives modified with Schiff base bearing benzenoid/heterocyclic moieties.. *International Journal of Biological Macromolecules*, **2022**,	7.9	1
96	Preparation of Doxorubicin-Loaded Carboxymethyl--Cyclodextrin/Chitosan Nanoparticles with Antioxidant, Antitumor Activities and pH-Sensitive Release. *Marine Drugs*, **2022**, 20, 278	6	1
95	Facile synthesis, characterization, antioxidant activity, and antibacterial activity of carboxymethyl inulin salt derivatives.. *International Journal of Biological Macromolecules*, **2021**, 199, 138-138	7.9	1
94	Antifungal activity of double Schiff bases of chitosan derivatives bearing active halogeno-benzenes. *International Journal of Biological Macromolecules*, **2021**, 179, 292-298	7.9	10
93	Modification of carboxymethyl inulin with heterocyclic compounds: Synthesis, characterization, antioxidant and antifungal activities. *International Journal of Biological Macromolecules*, **2021**, 181, 572-581	7.9	5
92	Determination of chitosan content with Schiff base method and HPLC. *International Journal of Biological Macromolecules*, **2021**, 182, 1537-1542	7.9	5
91	Preparation of Cross-linked Chitosan Quaternary Ammonium Salt Hydrogel Films Loading Drug of Gentamicin Sulfate for Antibacterial Wound Dressing. *Marine Drugs*, **2021**, 19,	6	6
90	Synthesis and antioxidant activity of the inulin derivative bearing 1,2,3-triazole and diphenyl phosphate. *International Journal of Biological Macromolecules*, **2021**, 186, 47-53	7.9	7
89	New synthetic adriamycin-incorporated chitosan nanoparticles with enhanced antioxidant, antitumor activities and pH-sensitive drug release. *Carbohydrate Polymers*, **2021**, 273, 118623	10.3	7
88	Modification of Hydroxypropyltrimethyl Ammonium Chitosan with Organic Acid: Synthesis, Characterization, and Antioxidant Activity. *Polymers*, **2020**, 12,	4.5	2
87	Synthesis and Characterization of ,,-trimethyl--(ureidopyridinium)acetyl Chitosan Derivatives with Antioxidant and Antifungal Activities. *Marine Drugs*, **2020**, 18,	6	6
86	Synthesis, characterization, and the antioxidant activity of the acetylated chitosan derivatives containing sulfonium salts. *International Journal of Biological Macromolecules*, **2020**, 152, 349-358	7.9	8
85	Cationic chitosan derivatives as potential antifungals: A review of structural optimization and applications. *Carbohydrate Polymers*, **2020**, 236, 116002	10.3	46
84	Preparation of 2,6-diurea-chitosan oligosaccharide derivatives for efficient antifungal and antioxidant activities. *Carbohydrate Polymers*, **2020**, 234, 115903	10.3	16
83	Synthesis and Antioxidant Activity of Cationic 1,2,3-Triazole Functionalized Starch Derivatives. *Polymers*, **2020**, 12,	4.5	4

82	Improved Antioxidant and Antifungal Activity of Chitosan Derivatives Bearing Urea Groups. *Starch/Staerke*, **2020**, 72, 1900205	2.3	3
81	Synthesis of Schiff bases modified inulin derivatives for potential antifungal and antioxidant applications. *International Journal of Biological Macromolecules*, **2020**, 143, 714-723	7.9	10
80	Preparation and physicochemical properties of antioxidant chitosan ascorbate/methylcellulose composite films. *International Journal of Biological Macromolecules*, **2020**, 146, 53-61	7.9	27
79	Highly efficient free radical-scavenging property of phenolic-functionalized chitosan derivatives: Chemical modification and activity assessment. *International Journal of Biological Macromolecules*, **2020**, 164, 4279-4288	7.9	6
78	Phenolic-containing chitosan quaternary ammonium derivatives and their significantly enhanced antioxidant and antitumor properties. *Carbohydrate Research*, **2020**, 498, 108169	2.9	8
77	Enhanced antifungal activity of novel cationic chitosan derivative bearing triphenylphosphonium salt via azide-alkyne click reaction. *International Journal of Biological Macromolecules*, **2020**, 165, 1765-1772	7.9	14
76	Determination of chitosan content with ratio coefficient method and HPLC. *International Journal of Biological Macromolecules*, **2020**, 164, 384-388	7.9	4
75	New synthetic chitosan derivatives bearing benzenoid/heterocyclic moieties with enhanced antioxidant and antifungal activities. *Carbohydrate Polymers*, **2020**, 249, 116847	10.3	15
74	The antioxidant and antifungal activity of chitosan derivatives bearing Schiff bases and quaternary ammonium salts. *Carbohydrate Polymers*, **2019**, 226, 115256	10.3	46
73	Preparation of starch derivatives bearing urea groups and the evaluation of antioxidant, antifungal, and antibacterial activities. *International Journal of Biological Macromolecules*, **2019**, 141, 1271-1279	7.9	5
72	Synthesis, Characterization, and Antioxidant Evaluation of Novel Pyridylurea-Functionalized Chitosan Derivatives. *Polymers*, **2019**, 11,	4.5	7
71	Novel Inulin Derivatives Modified with Schiff Bases: Synthesis, Characterization, and Antifungal Activity. *Polymers*, **2019**, 11,	4.5	5
70	Synthesis of urea-functionalized chitosan derivatives for potential antifungal and antioxidant applications. *Carbohydrate Polymers*, **2019**, 215, 108-118	10.3	24
69	Synthesis, Characterization, and Antifungal Activity of Schiff Bases of Inulin Bearing Pyridine ring. *Polymers*, **2019**, 11,	4.5	7
68	Physical and Antioxidant Properties of Edible Chitosan Ascorbate Films. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 2530-2539	5.7	24
67	Significantly enhanced antioxidant activity of chitosan through chemical modification with coumarins. *Polymer Chemistry*, **2019**, 10, 1480-1488	4.9	18
66	Synthesis and Characterization of Inulin Derivatives Bearing Urea Groups with Promising Antifungal Activity. *Starch/Staerke*, **2019**, 71, 1800058	2.3	4
65	Synthesis, Characterization, and the Antioxidant Activity of Carboxymethyl Chitosan Derivatives Containing Thiourea Salts. *Polymers*, **2019**, 11,	4.5	16

64	Evaluation of quaternary ammonium chitosan derivatives differing in the length of alkyl side-chain: Synthesis and antifungal activity. *International Journal of Biological Macromolecules*, **2019**, 129, 1127-1132	7.9	14
63	Enhanced antioxidant and antifungal activity of chitosan derivatives bearing 6-O-imidazole-based quaternary ammonium salts. *Carbohydrate Polymers*, **2019**, 206, 493-503	10.3	42
62	Synthesis, Characterization, and the Antifungal Property of Aminoethyl Chitosan Quaternary Ammonium Salts. *Starch/Staerke*, **2018**, 70, 1700266	2.3	
61	Synthesis of Novel Amino Lactose and Evaluation of Its Antioxidant Property. *Starch/Staerke*, **2018**, 70, 1700293	2.3	1
60	Synthesis of inulin derivatives with quaternary phosphonium salts and their antifungal activity. *International Journal of Biological Macromolecules*, **2018**, 113, 1273-1278	7.9	23
59	The evaluation of antioxidant and antifungal properties of 6-amino-6-deoxychitosan in vitro. *International Journal of Biological Macromolecules*, **2018**, 107, 595-603	7.9	20
58	Synthesis and antioxidant action of chitosan derivatives with amino-containing groups via azide-alkyne click reaction and N-methylation. *Carbohydrate Polymers*, **2018**, 199, 583-592	10.3	23
57	Novel Water Soluble Chitosan Derivatives with 1,2,3-Triazolium and Their Free Radical-Scavenging Activity. *Marine Drugs*, **2018**, 16,	6	12
56	Preparation and Characterization of Quaternized Chitosan Derivatives and Assessment of Their Antioxidant Activity. *Molecules*, **2018**, 23,	4.8	32
55	Synthesis of Quaternary Ammonium Salts of Chitosan Bearing Halogenated Acetate for Antifungal and Antibacterial Activities. *Polymers*, **2018**, 10,	4.5	13
54	Synthesis, Characterization, and Antifungal Activity of N-Quaternized and N-Diquaternized Chitin Derivatives. *Starch/Staerke*, **2018**, 70, 1800026	2.3	1
53	Synthesis, characterization, and evaluation of antifungal and antioxidant properties of cationic chitosan derivative via azide-alkyne click reaction. *International Journal of Biological Macromolecules*, **2018**, 120, 318-324	7.9	24
52	Synthesis, characterization, and the antioxidant activity of N,N,N-trimethyl chitosan salts. *International Journal of Biological Macromolecules*, **2018**, 118, 9-14	7.9	31
51	Synthesis, characterization, and the antifungal activity of chitosan derivatives containing urea groups. *International Journal of Biological Macromolecules*, **2018**, 109, 1061-1067	7.9	26
50	Novel cationic chitosan derivative bearing 1,2,3-triazolium and pyridinium: Synthesis, characterization, and antifungal property. *Carbohydrate Polymers*, **2018**, 182, 180-187	10.3	40
49	Radical Scavenging Activities of Novel Cationic Inulin Derivatives. *Polymers*, **2018**, 10,	4.5	2
48	Synthesis, Characterization, and Antifungal Activity of Pyridine-Based Triple Quaternized Chitosan Derivatives. *Molecules*, **2018**, 23,	4.8	12
47	Synthesis of Novel Chitin Derivatives Bearing Amino Groups and Evaluation of Their Antifungal Activity. *Marine Drugs*, **2018**, 16,	6	2

46	Synthesis, Characterization, and Antifungal Property of Hydroxypropyltrimethyl Ammonium Chitosan Halogenated Acetates. *Marine Drugs*, **2018**, 16,	6	16
45	Antioxidant Activity and Antifungal Activity of Chitosan Derivatives with Propane Sulfonate Groups. *Polymers*, **2018**, 10,	4.5	10
44	Novel 1,2,3-triazolium-functionalized starch derivatives: Synthesis, characterization, and evaluation of antifungal property. *Carbohydrate Polymers*, **2017**, 160, 163-171	10.3	26
43	Design, synthesis of novel chitosan derivatives bearing quaternary phosphonium salts and evaluation of antifungal activity. *International Journal of Biological Macromolecules*, **2017**, 102, 704-711	7.9	35
42	The influence of starch derivatives with benzene or halogenated benzene on antibacterial activity. *Starch/Staerke*, **2017**, 69, 1600350	2.3	5
41	Synthesis, characterization, and antifungal evaluation of novel 1,2,3-triazolium-functionalized starch derivative. *International Journal of Biological Macromolecules*, **2017**, 101, 845-851	7.9	16
40	Synthesis, characterization, and antifungal property of starch derivatives modified with quaternary phosphonium salts. *Materials Science and Engineering C*, **2017**, 76, 1048-1056	8.3	18
39	Synthesis of aminopyridinium-grafted starch derivatives and evaluation of their antioxidant property. *Starch/Staerke*, **2017**, 69, 1600259	2.3	7
38	Novel 1,2,3-triazolium-functionalized inulin derivatives: synthesis, free radical-scavenging activity, and antifungal activity. *RSC Advances*, **2017**, 7, 42225-42232	3.7	18
37	Synthesis and antioxidant ability of 6,6Ud-diamino-6,6Ud-dideoxytrehalose. *Bioorganic Chemistry*, **2017**, 74, 66-71	5.1	11
36	Antioxidant activity of inulin derivatives with quaternary ammonium. *Starch/Staerke*, **2017**, 69, 1700046	2.3	8
35	Design, synthesis of novel starch derivative bearing 1,2,3-triazolium and pyridinium and evaluation of its antifungal activity. *Carbohydrate Polymers*, **2017**, 157, 236-243	10.3	25
34	Novel Amino-Pyridine Functionalized Chitosan Quaternary Ammonium Derivatives: Design, Synthesis, and Antioxidant Activity. *Molecules*, **2017**, 22,	4.8	24
33	Synthesis, Characterization, and the Antioxidant Activity of Double Quaternized Chitosan Derivatives. *Molecules*, **2017**, 22,	4.8	28
32	Preparation and Characterization of Novel Cationic Chitosan Derivatives Bearing Quaternary Ammonium and Phosphonium Salts and Assessment of Their Antifungal Properties. *Molecules*, **2017**, 22,	4.8	24
31	Synthesis and antioxidant property of novel 1,2,3-triazole-linked starch derivatives via Ud-click chemistryU *International Journal of Biological Macromolecules*, **2016**, 82, 404-10	7.9	58
30	Synthesis, characterization, and antifungal property of chitosan ammonium salts with halogens. *International Journal of Biological Macromolecules*, **2016**, 92, 293-298	7.9	38
29	Synthesis of water soluble chitosan derivatives with halogeno-1,2,3-triazole and their antifungal activity. *International Journal of Biological Macromolecules*, **2016**, 91, 623-9	7.9	46

28	Synthesis, characterization, and antibacterial property of novel starch derivatives with 1,2,3-triazole. *Carbohydrate Polymers*, **2016**, 142, 1-7	10.3	46
27	Novel triazolyl-functionalized chitosan derivatives with different chain lengths of aliphatic alcohol substituent: Design, synthesis, and antifungal activity. *Carbohydrate Research*, **2015**, 418, 44-49	2.9	29
26	Extraction, degree of polymerization determination and prebiotic effect evaluation of inulin from Jerusalem artichoke. *Carbohydrate Polymers*, **2015**, 121, 315-9	10.3	65
25	Synthesis of amphiphilic aminated inulin via "click chemistry" and evaluation for its antibacterial activity. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 4590-4593	2.9	21
24	Synthesis, characterization, and antioxidant properties of novel inulin derivatives with amino-pyridine group. *International Journal of Biological Macromolecules*, **2014**, 70, 44-9	7.9	67
23	Synthesis, characterization, and antifungal activity of novel inulin derivatives with chlorinated benzene. *Carbohydrate Polymers*, **2014**, 99, 469-73	10.3	38
22	Comparative study of the influence of active groups of chitosan derivatives on antifungal activity. *Journal of Applied Polymer Science*, **2013**, 127, 2553-2556	2.9	25
21	Synthesis and antifungal activity of thiadiazole-functionalized chitosan derivatives. *Carbohydrate Research*, **2013**, 373, 103-7	2.9	41
20	Phenolic antioxidants-functionalized quaternized chitosan: synthesis and antioxidant properties. *International Journal of Biological Macromolecules*, **2013**, 53, 77-81	7.9	60
19	Antifungal properties of chitosan salts in laboratory media. *Journal of Applied Polymer Science*, **2012**, 124, 2501-2507	2.9	11
18	Synthesis and antifungal properties of 6-amino-6-deoxyinulin, a kind of precursors for facile chemical modifications of inulin. *Carbohydrate Polymers*, **2012**, 87, 1744-1748	10.3	33
17	Highly efficient synthesis and antioxidant activity of O-(aminoethyl)inulin. *Carbohydrate Polymers*, **2011**, 83, 1240-1244	10.3	24
16	Synthesis and hydroxyl radicals scavenging activity of N-(aminoethyl)inulin. *Carbohydrate Polymers*, **2011**, 85, 268-271	10.3	27
15	The hydroxyl radical scavenging activity of chitosan, hyaluronan, starch and their O-carboxymethylated derivatives. *Carbohydrate Polymers*, **2010**, 82, 1043-1045	10.3	47
14	Synthesis, characterization, and antifungal activity of novel quaternary chitosan derivatives. *Carbohydrate Research*, **2010**, 345, 1896-900	2.9	52
13	The influence of the cation of quaternized chitosans on antioxidant activity. *Carbohydrate Polymers*, **2009**, 78, 439-443	10.3	53
12	The influence of molecular weight of quaternized chitosan on antifungal activity. *Carbohydrate Polymers*, **2008**, 71, 694-697	10.3	86
11	Synthesis and hydroxyl radicals scavenging activity of quaternized carboxymethyl chitosan. *Carbohydrate Polymers*, **2008**, 73, 173-177	10.3	65

10	The influence of the cationic of quaternized chitosan on antifungal activity. *International Journal of Food Microbiology*, **2007**, 118, 214-7	5.8	61
9	Antifungal properties of Schiff bases of chitosan, N-substituted chitosan and quaternized chitosan. *Carbohydrate Research*, **2007**, 342, 1329-32	2.9	241
8	Synthesis and antifungal properties of sulfanilamide derivatives of chitosan. *Carbohydrate Research* , **2007**, 342, 2390-5	2.9	59
7	Hydroxyl radicals scavenging activity of N-substituted chitosan and quaternized chitosan. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 6348-50	2.9	82
6	Novel derivatives of chitosan and their antifungal activities in vitro. *Carbohydrate Research*, **2006**, 341, 351-4	2.9	134
5	The antioxidant activity of glucosamine hydrochloride in vitro. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 1706-9	3.4	85
4	The synthesis and antioxidant activity of the Schiff bases of chitosan and carboxymethyl chitosan. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 4600-3	2.9	217
3	Preparation of high-molecular weight and high-sulfate content chitosans and their potential antioxidant activity in vitro. *Carbohydrate Polymers*, **2005**, 61, 148-154	10.3	111
2	Synthesis, characterization, and antioxidant activity of carboxymethyl chitosan derivatives containing sulfonium salt. *Journal of Oceanology and Limnology*,1	1.5	0
1	The Antioxidant and Antibacterial Activities of the Pyridine-4-Aldehyde Schiff Bases Grafted Chloracetyl Chitosan Oligosaccharide Derivatives. *Starch/Staerke*,2100268	2.3	1