

# Wenqiang Tan

## List of Publications by Year in descending order

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103  
papers

4,108  
citations

109137

35  
h-index

133063

59  
g-index

103  
all docs

103  
docs citations

103  
times ranked

3517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antifungal properties of Schiff bases of chitosan, N-substituted chitosan and quaternized chitosan. Carbohydrate Research, 2007, 342, 1329-1332.	1.1	299
2	The synthesis and antioxidant activity of the Schiff bases of chitosan and carboxymethyl chitosan. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4600-4603.	1.0	251
3	Novel derivatives of chitosan and their antifungal activities in vitro. Carbohydrate Research, 2006, 341, 351-354.	1.1	153
4	Preparation of high-molecular weight and high-sulfate content chitosans and their potential antioxidant activity in vitro. Carbohydrate Polymers, 2005, 61, 148-154.	5.1	118
5	The influence of molecular weight of quaternized chitosan on antifungal activity. Carbohydrate Polymers, 2008, 71, 694-697.	5.1	107
6	Cationic chitosan derivatives as potential antifungals: A review of structural optimization and applications. Carbohydrate Polymers, 2020, 236, 116002.	5.1	106
7	The antioxidant and antifungal activity of chitosan derivatives bearing Schiff bases and quaternary ammonium salts. Carbohydrate Polymers, 2019, 226, 115256.	5.1	99
8	The antioxidant activity of glucosamine hydrochloride in vitro. Bioorganic and Medicinal Chemistry, 2006, 14, 1706-1709.	1.4	98
9	Hydroxyl radicals scavenging activity of N-substituted chitosan and quaternized chitosan. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 6348-6350.	1.0	94
10	Extraction, degree of polymerization determination and prebiotic effect evaluation of inulin from Jerusalem artichoke. Carbohydrate Polymers, 2015, 121, 315-319.	5.1	90
11	Synthesis, characterization, and antioxidant properties of novel inulin derivatives with amino-pyridine group. International Journal of Biological Macromolecules, 2014, 70, 44-49.	3.6	82
12	Synthesis and hydroxyl radicals scavenging activity of quaternized carboxymethyl chitosan. Carbohydrate Polymers, 2008, 73, 173-177.	5.1	75
13	Synthesis and antioxidant property of novel 1,2,3-triazole-linked starch derivatives via click chemistry™. International Journal of Biological Macromolecules, 2016, 82, 404-410.	3.6	73
14	The influence of the cationic of quaternized chitosan on antifungal activity. International Journal of Food Microbiology, 2007, 118, 214-217.	2.1	70
15	Phenolic antioxidants-functionalized quaternized chitosan: Synthesis and antioxidant properties. International Journal of Biological Macromolecules, 2013, 53, 77-81.	3.6	67
16	The hydroxyl radical scavenging activity of chitosan, hyaluronan, starch and their O-carboxymethylated derivatives. Carbohydrate Polymers, 2010, 82, 1043-1045.	5.1	65
17	Novel cationic chitosan derivative bearing 1,2,3-triazolium and pyridinium: Synthesis, characterization, and antifungal property. Carbohydrate Polymers, 2018, 182, 180-187.	5.1	65
18	Enhanced antioxidant and antifungal activity of chitosan derivatives bearing 6-O-imidazole-based quaternary ammonium salts. Carbohydrate Polymers, 2019, 206, 493-503.	5.1	65

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19	Synthesis and antifungal properties of sulfanilamide derivatives of chitosan. <i>Carbohydrate Research</i> , 2007, 342, 2390-2395.	1.1	64
20	The influence of the cation of quaternized chitosans on antioxidant activity. <i>Carbohydrate Polymers</i> , 2009, 78, 439-443.	5.1	61
21	Synthesis, characterization, and antifungal activity of novel quaternary chitosan derivatives. <i>Carbohydrate Research</i> , 2010, 345, 1896-1900.	1.1	60
22	Preparation and Characterization of Quaternized Chitosan Derivatives and Assessment of Their Antioxidant Activity. <i>Molecules</i> , 2018, 23, 516.	1.7	59
23	Synthesis of water soluble chitosan derivatives with halogeno-1,2,3-triazole and their antifungal activity. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 623-629.	3.6	58
24	Synthesis and antifungal activity of thiadiazole-functionalized chitosan derivatives. <i>Carbohydrate Research</i> , 2013, 373, 103-107.	1.1	52
25	Physical and Antioxidant Properties of Edible Chitosan Ascorbate Films. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2530-2539.	2.4	52
26	Design, synthesis of novel chitosan derivatives bearing quaternary phosphonium salts and evaluation of antifungal activity. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 704-711.	3.6	51
27	Synthesis, characterization, and antibacterial property of novel starch derivatives with 1,2,3-triazole. <i>Carbohydrate Polymers</i> , 2016, 142, 1-7.	5.1	50
28	Synthesis, characterization, and the antioxidant activity of N,N,N-trimethyl chitosan salts. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 9-14.	3.6	49
29	Preparation and physicochemical properties of antioxidant chitosan ascorbate/methylcellulose composite films. <i>International Journal of Biological Macromolecules</i> , 2020, 146, 53-61.	3.6	47
30	Synthesis, characterization, and antifungal property of chitosan ammonium salts with halogens. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 293-298.	3.6	45
31	Novel Amino-Pyridine Functionalized Chitosan Quaternary Ammonium Derivatives: Design, Synthesis, and Antioxidant Activity. <i>Molecules</i> , 2017, 22, 156.	1.7	43
32	New synthetic chitosan derivatives bearing benzenoid/heterocyclic moieties with enhanced antioxidant and antifungal activities. <i>Carbohydrate Polymers</i> , 2020, 249, 116847.	5.1	43
33	Synthesis, characterization, and antifungal activity of novel inulin derivatives with chlorinated benzene. <i>Carbohydrate Polymers</i> , 2014, 99, 469-473.	5.1	42
34	Synthesis and antioxidant action of chitosan derivatives with amino-containing groups via azide-alkyne click reaction and N-methylation. <i>Carbohydrate Polymers</i> , 2018, 199, 583-592.	5.1	41
35	Significantly enhanced antioxidant activity of chitosan through chemical modification with coumarins. <i>Polymer Chemistry</i> , 2019, 10, 1480-1488.	1.9	40
36	Antifungal activity of double Schiff bases of chitosan derivatives bearing active halogeno-benzenes. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 292-298.	3.6	40

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37	Synthesis of urea-functionalized chitosan derivatives for potential antifungal and antioxidant applications. <i>Carbohydrate Polymers</i> , 2019, 215, 108-118.	5.1	37
38	Synthesis, characterization, and evaluation of antifungal and antioxidant properties of cationic chitosan derivative via azide-alkyne click reaction. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 318-324.	3.6	35
39	Preparation of 2,6-diurea-chitosan oligosaccharide derivatives for efficient antifungal and antioxidant activities. <i>Carbohydrate Polymers</i> , 2020, 234, 115903.	5.1	35
40	Synthesis and antifungal properties of 6-amino-6-deoxyinulin, a kind of precursors for facile chemical modifications of inulin. <i>Carbohydrate Polymers</i> , 2012, 87, 1744-1748.	5.1	34
41	Novel 1,2,3-triazolium-functionalized starch derivatives: Synthesis, characterization, and evaluation of antifungal property. <i>Carbohydrate Polymers</i> , 2017, 160, 163-171.	5.1	34
42	Preparation and Characterization of Novel Cationic Chitosan Derivatives Bearing Quaternary Ammonium and Phosphonium Salts and Assessment of Their Antifungal Properties. <i>Molecules</i> , 2017, 22, 1438.	1.7	34
43	Novel triazolyl-functionalized chitosan derivatives with different chain lengths of aliphatic alcohol substituent: Design, synthesis, and antifungal activity. <i>Carbohydrate Research</i> , 2015, 418, 44-49.	1.1	33
44	Synthesis, characterization, and the antifungal activity of chitosan derivatives containing urea groups. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1061-1067.	3.6	33
45	Design, synthesis of novel starch derivative bearing 1,2,3-triazolium and pyridinium and evaluation of its antifungal activity. <i>Carbohydrate Polymers</i> , 2017, 157, 236-243.	5.1	32
46	Synthesis, Characterization, and the Antioxidant Activity of Double Quaternized Chitosan Derivatives. <i>Molecules</i> , 2017, 22, 501.	1.7	32
47	Antioxidant Activity and Antifungal Activity of Chitosan Derivatives with Propane Sulfonate Groups. <i>Polymers</i> , 2018, 10, 395.	2.0	32
48	Synthesis and hydroxyl radicals scavenging activity of N-(aminoethyl)inulin. <i>Carbohydrate Polymers</i> , 2011, 85, 268-271.	5.1	30
49	The evaluation of antioxidant and antifungal properties of 6-amino-6-deoxychitosan in vitro. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 595-603.	3.6	30
50	Synthesis of inulin derivatives with quaternary phosphonium salts and their antifungal activity. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 1273-1278.	3.6	29
51	Synthesis, Characterization, and Antifungal Property of Hydroxypropyltrimethyl Ammonium Chitosan Halogenated Acetates. <i>Marine Drugs</i> , 2018, 16, 315.	2.2	29
52	Comparative study of the influence of active groups of chitosan derivatives on antifungal activity. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2553-2556.	1.3	28
53	Synthesis, characterization, and antifungal property of starch derivatives modified with quaternary phosphonium salts. <i>Materials Science and Engineering C</i> , 2017, 76, 1048-1056.	3.8	26
54	Synthesis of Schiff bases modified inulin derivatives for potential antifungal and antioxidant applications. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 714-723.	3.6	26

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55	Phenolic-containing chitosan quaternary ammonium derivatives and their significantly enhanced antioxidant and antitumor properties. <i>Carbohydrate Research</i> , 2020, 498, 108169.	1.1	26
56	Highly efficient synthesis and antioxidant activity of O-(aminoethyl)inulin. <i>Carbohydrate Polymers</i> , 2011, 83, 1240-1244.	5.1	25
57	Enhanced antifungal activity of novel cationic chitosan derivative bearing triphenylphosphonium salt via azide-alkyne click reaction. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1765-1772.	3.6	25
58	Preparation of Cross-linked Chitosan Quaternary Ammonium Salt Hydrogel Films Loading Drug of Gentamicin Sulfate for Antibacterial Wound Dressing. <i>Marine Drugs</i> , 2021, 19, 479.	2.2	25
59	New synthetic adriamycin-incorporated chitosan nanoparticles with enhanced antioxidant, antitumor activities and pH-sensitive drug release. <i>Carbohydrate Polymers</i> , 2021, 273, 118623.	5.1	25
60	The influence of bioactive glyoxylate bearing Schiff base on antifungal and antioxidant activities to chitosan quaternary ammonium salts. <i>Carbohydrate Polymers</i> , 2022, 278, 118970.	5.1	25
61	Synthesis of amphiphilic aminated inulin via "click chemistry"™ and evaluation for its antibacterial activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4590-4593.	1.0	24
62	Synthesis, characterization, and antifungal evaluation of novel 1,2,3-triazolium-functionalized starch derivative. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 845-851.	3.6	24
63	Modification of carboxymethyl inulin with heterocyclic compounds: Synthesis, characterization, antioxidant and antifungal activities. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 572-581.	3.6	24
64	Novel 1,2,3-triazolium-functionalized inulin derivatives: synthesis, free radical-scavenging activity, and antifungal activity. <i>RSC Advances</i> , 2017, 7, 42225-42232.	1.7	23
65	Synthesis of Quaternary Ammonium Salts of Chitosan Bearing Halogenated Acetate for Antifungal and Antibacterial Activities. <i>Polymers</i> , 2018, 10, 530.	2.0	23
66	Synthesis, Characterization, and the Antioxidant Activity of Carboxymethyl Chitosan Derivatives Containing Thiourea Salts. <i>Polymers</i> , 2019, 11, 1810.	2.0	23
67	Synthesis, Characterization, and Antifungal Activity of Schiff Bases of Inulin Bearing Pyridine ring. <i>Polymers</i> , 2019, 11, 371.	2.0	22
68	Novel Water Soluble Chitosan Derivatives with 1,2,3-Triazolium and Their Free Radical-Scavenging Activity. <i>Marine Drugs</i> , 2018, 16, 107.	2.2	20
69	Evaluation of quaternary ammonium chitosan derivatives differing in the length of alkyl side-chain: Synthesis and antifungal activity. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 1127-1132.	3.6	20
70	Enhanced antifungal and antioxidant activities of new chitosan derivatives modified with Schiff base bearing benzenoid/heterocyclic moieties. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 586-595.	3.6	19
71	Synthesis, Characterization, and Antifungal Activity of Pyridine-Based Triple Quaternized Chitosan Derivatives. <i>Molecules</i> , 2018, 23, 2604.	1.7	18
72	Highly efficient free radical-scavenging property of phenolic-functionalized chitosan derivatives: Chemical modification and activity assessment. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4279-4288.	3.6	18

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73	Synthesis and characterization of $\alpha$ -lipoic acid grafted chitosan derivatives with antioxidant activity. <i>Reactive and Functional Polymers</i> , 2022, 172, 105205.	2.0	18
74	Antifungal properties of chitosan salts in laboratory media. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2501-2507.	1.3	14
75	Synthesis and antioxidant activity of the inulin derivative bearing 1,2,3-triazole and diphenyl phosphate. <i>International Journal of Biological Macromolecules</i> , 2021, 186, 47-53.	3.6	14
76	Synthesis and Characterization of N,N,N-trimethyl-O-(ureidopyridinium)acetyl Chitosan Derivatives with Antioxidant and Antifungal Activities. <i>Marine Drugs</i> , 2020, 18, 163.	2.2	13
77	Synthesis, characterization, and the antioxidant activity of the acetylated chitosan derivatives containing sulfonium salts. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 349-358.	3.6	13
78	Facile synthesis, characterization, antioxidant activity, and antibacterial activity of carboxymethyl inulin salt derivatives. <i>International Journal of Biological Macromolecules</i> , 2022, 199, 138-149.	3.6	13
79	Synthesis and antioxidant ability of 6,6'-diamino-6,6'-dideoxytrehalose. <i>Bioorganic Chemistry</i> , 2017, 74, 66-71.	2.0	12
80	Synthesis of aminopyridinium-grafted starch derivatives and evaluation of their antioxidant property. <i>Starch/Staerke</i> , 2017, 69, 1600259.	1.1	11
81	Synthesis, Characterization, and Antioxidant Evaluation of Novel Pyridylurea-Functionalized Chitosan Derivatives. <i>Polymers</i> , 2019, 11, 951.	2.0	11
82	Antimicrobial and Antioxidant Activities of N-2-Hydroxypropyltrimethyl Ammonium Chitosan Derivatives Bearing Amino Acid Schiff Bases. <i>Marine Drugs</i> , 2022, 20, 86.	2.2	11
83	Determination of chitosan content with ratio coefficient method and HPLC. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 384-388.	3.6	10
84	Determination of chitosan content with Schiff base method and HPLC. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1537-1542.	3.6	10
85	Antioxidant activity of inulin derivatives with quaternary ammonium. <i>Starch/Staerke</i> , 2017, 69, 1700046.	1.1	9
86	Modification of Hydroxypropyltrimethyl Ammonium Chitosan with Organic Acid: Synthesis, Characterization, and Antioxidant Activity. <i>Polymers</i> , 2020, 12, 2460.	2.0	9
87	Synthesis and Antioxidant Activity of Cationic 1,2,3-Triazole Functionalized Starch Derivatives. <i>Polymers</i> , 2020, 12, 112.	2.0	9
88	The influence of starch derivatives with benzene or halogenated benzene on antibacterial activity. <i>Starch/Staerke</i> , 2017, 69, 1600350.	1.1	8
89	Preparation of starch derivatives bearing urea groups and the evaluation of antioxidant, antifungal, and antibacterial activities. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 1271-1279.	3.6	8
90	Synthesis of Novel Chitin Derivatives Bearing Amino Groups and Evaluation of Their Antifungal Activity. <i>Marine Drugs</i> , 2018, 16, 380.	2.2	7

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91	Novel Inulin Derivatives Modified with Schiff Bases: Synthesis, Characterization, and Antifungal Activity. <i>Polymers</i> , 2019, 11, 998.	2.0	7
92	Novel 2-Hydroxypropyltrimethyl Ammonium Chitosan Derivatives: Synthesis, Characterization, Moisture Absorption and Retention Properties. <i>Molecules</i> , 2021, 26, 4238.	1.7	7
93	Preparation of Doxorubicin-Loaded Carboxymethyl- $\beta$ -2-Cyclodextrin/Chitosan Nanoparticles with Antioxidant, Antitumor Activities and pH-Sensitive Release. <i>Marine Drugs</i> , 2022, 20, 278.	2.2	7
94	Synthesis and Characterization of Inulin Derivatives Bearing Urea Groups with Promising Antifungal Activity. <i>Starch/Staerke</i> , 2019, 71, 1800058.	1.1	5
95	Improved Antioxidant and Antifungal Activity of Chitosan Derivatives Bearing Urea Groups. <i>Starch/Staerke</i> , 2020, 72, 1900205.	1.1	5
96	Synthesis, Characterization, and Evaluation of Nanoparticles Loading Adriamycin Based on 2-Hydroxypropyltrimethyl Ammonium Chloride Chitosan Grafting Folic Acid. <i>Polymers</i> , 2021, 13, 2229.	2.0	5
97	Synthesis, characterization, and antioxidant activity of carboxymethyl chitosan derivatives containing sulfonium salt. <i>Journal of Oceanology and Limnology</i> , 0, , 1.	0.6	5
98	The Antioxidant and Antibacterial Activities of the Pyridine- $\alpha$ -Aldehyde Schiff Bases Grafted Chloroacetyl Chitosan Oligosaccharide Derivatives. <i>Starch/Staerke</i> , 2023, 75, .	1.1	5
99	Radical Scavenging Activities of Novel Cationic Inulin Derivatives. <i>Polymers</i> , 2018, 10, 1295.	2.0	3
100	Synthesis, Characterization, and Antifungal Activity of $N$ -Quaternized and $N$ -Di-quaternized Chitin Derivatives. <i>Starch/Staerke</i> , 2018, 70, 1800026.	1.1	3
101	Synthesis, Characterization, and the Antifungal Property of Aminoethyl Chitosan Quaternary Ammonium Salts. <i>Starch/Staerke</i> , 2018, 70, 1700266.	1.1	2
102	Synthesis of Novel Amino Lactose and Evaluation of Its Antioxidant Property. <i>Starch/Staerke</i> , 2018, 70, 1700293.	1.1	1
103	Synthesis of Hydroxypropyltrimethyl Ammonium Chitosan Derivatives Bearing Thiocetate and the Potential for Antioxidant Application. <i>Molecules</i> , 2022, 27, 2682.	1.7	1