

# Wenqiang Tan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/514460/wenqiang-tan-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Antifungal properties of Schiff bases of chitosan, N-substituted chitosan and quaternized chitosan. <i>Carbohydrate Research</i> , <b>2007</b> , 342, 1329-32	2.9	241
98	The synthesis and antioxidant activity of the Schiff bases of chitosan and carboxymethyl chitosan. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2005</b> , 15, 4600-3	2.9	217
97	Novel derivatives of chitosan and their antifungal activities in vitro. <i>Carbohydrate Research</i> , <b>2006</b> , 341, 351-4	2.9	134
96	Preparation of high-molecular weight and high-sulfate content chitosans and their potential antioxidant activity in vitro. <i>Carbohydrate Polymers</i> , <b>2005</b> , 61, 148-154	10.3	111
95	The influence of molecular weight of quaternized chitosan on antifungal activity. <i>Carbohydrate Polymers</i> , <b>2008</b> , 71, 694-697	10.3	86
94	The antioxidant activity of glucosamine hydrochloride in vitro. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 1706-9	3.4	85
93	Hydroxyl radicals scavenging activity of N-substituted chitosan and quaternized chitosan. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2006</b> , 16, 6348-50	2.9	82
92	Synthesis, characterization, and antioxidant properties of novel inulin derivatives with amino-pyridine group. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 70, 44-9	7.9	67
91	Extraction, degree of polymerization determination and prebiotic effect evaluation of inulin from Jerusalem artichoke. <i>Carbohydrate Polymers</i> , <b>2015</b> , 121, 315-9	10.3	65
90	Synthesis and hydroxyl radicals scavenging activity of quaternized carboxymethyl chitosan. <i>Carbohydrate Polymers</i> , <b>2008</b> , 73, 173-177	10.3	65
89	The influence of the cationic of quaternized chitosan on antifungal activity. <i>International Journal of Food Microbiology</i> , <b>2007</b> , 118, 214-7	5.8	61
88	Phenolic antioxidants-functionalized quaternized chitosan: synthesis and antioxidant properties. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 53, 77-81	7.9	60
87	Synthesis and antifungal properties of sulfanilamide derivatives of chitosan. <i>Carbohydrate Research</i> , <b>2007</b> , 342, 2390-5	2.9	59
86	Synthesis and antioxidant property of novel 1,2,3-triazole-linked starch derivatives via click chemistry. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 82, 404-10	7.9	58
85	The influence of the cation of quaternized chitosans on antioxidant activity. <i>Carbohydrate Polymers</i> , <b>2009</b> , 78, 439-443	10.3	53
84	Synthesis, characterization, and antifungal activity of novel quaternary chitosan derivatives. <i>Carbohydrate Research</i> , <b>2010</b> , 345, 1896-900	2.9	52
83	The hydroxyl radical scavenging activity of chitosan, hyaluronan, starch and their O-carboxymethylated derivatives. <i>Carbohydrate Polymers</i> , <b>2010</b> , 82, 1043-1045	10.3	47

82	The antioxidant and antifungal activity of chitosan derivatives bearing Schiff bases and quaternary ammonium salts. <i>Carbohydrate Polymers</i> , <b>2019</b> , 226, 115256	10.3	46
81	Cationic chitosan derivatives as potential antifungals: A review of structural optimization and applications. <i>Carbohydrate Polymers</i> , <b>2020</b> , 236, 116002	10.3	46
80	Synthesis of water soluble chitosan derivatives with halogeno-1,2,3-triazole and their antifungal activity. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 91, 623-9	7.9	46
79	Synthesis, characterization, and antibacterial property of novel starch derivatives with 1,2,3-triazole. <i>Carbohydrate Polymers</i> , <b>2016</b> , 142, 1-7	10.3	46
78	Enhanced antioxidant and antifungal activity of chitosan derivatives bearing 6-O-imidazole-based quaternary ammonium salts. <i>Carbohydrate Polymers</i> , <b>2019</b> , 206, 493-503	10.3	42
77	Synthesis and antifungal activity of thiadiazole-functionalized chitosan derivatives. <i>Carbohydrate Research</i> , <b>2013</b> , 373, 103-7	2.9	41
76	Novel cationic chitosan derivative bearing 1,2,3-triazolium and pyridinium: Synthesis, characterization, and antifungal property. <i>Carbohydrate Polymers</i> , <b>2018</b> , 182, 180-187	10.3	40
75	Synthesis, characterization, and antifungal property of chitosan ammonium salts with halogens. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 92, 293-298	7.9	38
74	Synthesis, characterization, and antifungal activity of novel inulin derivatives with chlorinated benzene. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 469-73	10.3	38
73	Design, synthesis of novel chitosan derivatives bearing quaternary phosphonium salts and evaluation of antifungal activity. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 102, 704-711	7.9	35
72	Synthesis and antifungal properties of 6-amino-6-deoxyinulin, a kind of precursors for facile chemical modifications of inulin. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1744-1748	10.3	33
71	Preparation and Characterization of Quaternized Chitosan Derivatives and Assessment of Their Antioxidant Activity. <i>Molecules</i> , <b>2018</b> , 23,	4.8	32
70	Synthesis, characterization, and the antioxidant activity of N,N,N-trimethyl chitosan salts. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 118, 9-14	7.9	31
69	Novel triazolyl-functionalized chitosan derivatives with different chain lengths of aliphatic alcohol substituent: Design, synthesis, and antifungal activity. <i>Carbohydrate Research</i> , <b>2015</b> , 418, 44-49	2.9	29
68	Synthesis, Characterization, and the Antioxidant Activity of Double Quaternized Chitosan Derivatives. <i>Molecules</i> , <b>2017</b> , 22,	4.8	28
67	Synthesis and hydroxyl radicals scavenging activity of N-(aminoethyl)inulin. <i>Carbohydrate Polymers</i> , <b>2011</b> , 85, 268-271	10.3	27
66	Preparation and physicochemical properties of antioxidant chitosan ascorbate/methylcellulose composite films. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 146, 53-61	7.9	27
65	Novel 1,2,3-triazolium-functionalized starch derivatives: Synthesis, characterization, and evaluation of antifungal property. <i>Carbohydrate Polymers</i> , <b>2017</b> , 160, 163-171	10.3	26

64	Synthesis, characterization, and the antifungal activity of chitosan derivatives containing urea groups. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 109, 1061-1067	7.9	26
63	Comparative study of the influence of active groups of chitosan derivatives on antifungal activity. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 2553-2556	2.9	25
62	Design, synthesis of novel starch derivative bearing 1,2,3-triazolium and pyridinium and evaluation of its antifungal activity. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 236-243	10.3	25
61	Synthesis of urea-functionalized chitosan derivatives for potential antifungal and antioxidant applications. <i>Carbohydrate Polymers</i> , <b>2019</b> , 215, 108-118	10.3	24
60	Physical and Antioxidant Properties of Edible Chitosan Ascorbate Films. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 2530-2539	5.7	24
59	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> , <b>2018</b> , 120, 318-324	7.9	24
58	Novel Amino-Pyridine Functionalized Chitosan Quaternary Ammonium Derivatives: Design, Synthesis, and Antioxidant Activity. <i>Molecules</i> , <b>2017</b> , 22,	4.8	24
57	Preparation and Characterization of Novel Cationic Chitosan Derivatives Bearing Quaternary Ammonium and Phosphonium Salts and Assessment of Their Antifungal Properties. <i>Molecules</i> , <b>2017</b> , 22,	4.8	24
56	Highly efficient synthesis and antioxidant activity of O-(aminoethyl)inulin. <i>Carbohydrate Polymers</i> , <b>2011</b> , 83, 1240-1244	10.3	24
55	Synthesis of inulin derivatives with quaternary phosphonium salts and their antifungal activity. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 113, 1273-1278	7.9	23
54	Synthesis and antioxidant action of chitosan derivatives with amino-containing groups via azide-alkyne click reaction and N-methylation. <i>Carbohydrate Polymers</i> , <b>2018</b> , 199, 583-592	10.3	23
53	Synthesis of amphiphilic aminated inulin via click chemistry and evaluation for its antibacterial activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 4590-4593	2.9	21
52	The evaluation of antioxidant and antifungal properties of 6-amino-6-deoxychitosan in vitro. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 107, 595-603	7.9	20
51	Synthesis, characterization, and antifungal property of starch derivatives modified with quaternary phosphonium salts. <i>Materials Science and Engineering C</i> , <b>2017</b> , 76, 1048-1056	8.3	18
50	Significantly enhanced antioxidant activity of chitosan through chemical modification with coumarins. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 1480-1488	4.9	18
49	Novel 1,2,3-triazolium-functionalized inulin derivatives: synthesis, free radical-scavenging activity, and antifungal activity. <i>RSC Advances</i> , <b>2017</b> , 7, 42225-42232	3.7	18
48	Synthesis, characterization, and antifungal evaluation of novel 1,2,3-triazolium-functionalized starch derivative. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 101, 845-851	7.9	16
47	Preparation of 2,6-diurea-chitosan oligosaccharide derivatives for efficient antifungal and antioxidant activities. <i>Carbohydrate Polymers</i> , <b>2020</b> , 234, 115903	10.3	16

46	Synthesis, Characterization, and the Antioxidant Activity of Carboxymethyl Chitosan Derivatives Containing Thiourea Salts. <i>Polymers</i> , <b>2019</b> , 11,	4.5	16
45	Synthesis, Characterization, and Antifungal Property of Hydroxypropyltrimethyl Ammonium Chitosan Halogenated Acetates. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	16
44	New synthetic chitosan derivatives bearing benzenoid/heterocyclic moieties with enhanced antioxidant and antifungal activities. <i>Carbohydrate Polymers</i> , <b>2020</b> , 249, 116847	10.3	15
43	Enhanced antifungal activity of novel cationic chitosan derivative bearing triphenylphosphonium salt via azide-alkyne click reaction. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 1765-1772	7.9	14
42	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> , <b>2019</b> , 129, 1127-1132	7.9	14
41	Synthesis of Quaternary Ammonium Salts of Chitosan Bearing Halogenated Acetate for Antifungal and Antibacterial Activities. <i>Polymers</i> , <b>2018</b> , 10,	4.5	13
40	Novel Water Soluble Chitosan Derivatives with 1,2,3-Triazolium and Their Free Radical-Scavenging Activity. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	12
39	Synthesis, Characterization, and Antifungal Activity of Pyridine-Based Triple Quaternized Chitosan Derivatives. <i>Molecules</i> , <b>2018</b> , 23,	4.8	12
38	Antifungal properties of chitosan salts in laboratory media. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 2501-2507	2.9	11
37	Synthesis and antioxidant ability of 6,6'-diamino-6,6'-dideoxytrehalose. <i>Bioorganic Chemistry</i> , <b>2017</b> , 74, 66-71	5.1	11
36	Synthesis of Schiff bases modified inulin derivatives for potential antifungal and antioxidant applications. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 143, 714-723	7.9	10
35	Antifungal activity of double Schiff bases of chitosan derivatives bearing active halogeno-benzenes. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 179, 292-298	7.9	10
34	Antioxidant Activity and Antifungal Activity of Chitosan Derivatives with Propane Sulfonate Groups. <i>Polymers</i> , <b>2018</b> , 10,	4.5	10
33	Synthesis, characterization, and the antioxidant activity of the acetylated chitosan derivatives containing sulfonium salts. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 152, 349-358	7.9	8
32	Antioxidant activity of inulin derivatives with quaternary ammonium. <i>Starch/Staerke</i> , <b>2017</b> , 69, 1700046	2.3	8
31	Phenolic-containing chitosan quaternary ammonium derivatives and their significantly enhanced antioxidant and antitumor properties. <i>Carbohydrate Research</i> , <b>2020</b> , 498, 108169	2.9	8
30	Synthesis of aminopyridinium-grafted starch derivatives and evaluation of their antioxidant property. <i>Starch/Staerke</i> , <b>2017</b> , 69, 1600259	2.3	7
29	Synthesis, Characterization, and Antioxidant Evaluation of Novel Pyridylurea-Functionalized Chitosan Derivatives. <i>Polymers</i> , <b>2019</b> , 11,	4.5	7

28	Synthesis, Characterization, and Antifungal Activity of Schiff Bases of Inulin Bearing Pyridine ring. <i>Polymers</i> , <b>2019</b> , 11,	4.5	7
27	Synthesis and antioxidant activity of the inulin derivative bearing 1,2,3-triazole and diphenyl phosphate. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 186, 47-53	7.9	7
26	New synthetic adriamycin-incorporated chitosan nanoparticles with enhanced antioxidant, antitumor activities and pH-sensitive drug release. <i>Carbohydrate Polymers</i> , <b>2021</b> , 273, 118623	10.3	7
25	Synthesis and Characterization of „-trimethyl--(ureidopyridinium)acetyl Chitosan Derivatives with Antioxidant and Antifungal Activities. <i>Marine Drugs</i> , <b>2020</b> , 18,	6	6
24	Highly efficient free radical-scavenging property of phenolic-functionalized chitosan derivatives: Chemical modification and activity assessment. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 4279-4288	7.9	6
23	Preparation of Cross-linked Chitosan Quaternary Ammonium Salt Hydrogel Films Loading Drug of Gentamicin Sulfate for Antibacterial Wound Dressing. <i>Marine Drugs</i> , <b>2021</b> , 19,	6	6
22	The influence of starch derivatives with benzene or halogenated benzene on antibacterial activity. <i>Starch/Staerke</i> , <b>2017</b> , 69, 1600350	2.3	5
21	Preparation of starch derivatives bearing urea groups and the evaluation of antioxidant, antifungal, and antibacterial activities. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 141, 1271-1279	7.9	5
20	Novel Inulin Derivatives Modified with Schiff Bases: Synthesis, Characterization, and Antifungal Activity. <i>Polymers</i> , <b>2019</b> , 11,	4.5	5
19	Modification of carboxymethyl inulin with heterocyclic compounds: Synthesis, characterization, antioxidant and antifungal activities. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 181, 572-581	7.9	5
18	Determination of chitosan content with Schiff base method and HPLC. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 182, 1537-1542	7.9	5
17	Synthesis and Antioxidant Activity of Cationic 1,2,3-Triazole Functionalized Starch Derivatives. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
16	Synthesis and Characterization of Inulin Derivatives Bearing Urea Groups with Promising Antifungal Activity. <i>Starch/Staerke</i> , <b>2019</b> , 71, 1800058	2.3	4
15	Determination of chitosan content with ratio coefficient method and HPLC. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 384-388	7.9	4
14	Improved Antioxidant and Antifungal Activity of Chitosan Derivatives Bearing Urea Groups. <i>Starch/Staerke</i> , <b>2020</b> , 72, 1900205	2.3	3
13	Modification of Hydroxypropyltrimethyl Ammonium Chitosan with Organic Acid: Synthesis, Characterization, and Antioxidant Activity. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
12	The influence of bioactive glyoxylate bearing Schiff base on antifungal and antioxidant activities to chitosan quaternary ammonium salts.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 278, 118970	10.3	2
11	Radical Scavenging Activities of Novel Cationic Inulin Derivatives. <i>Polymers</i> , <b>2018</b> , 10,	4.5	2

10	Synthesis of Novel Chitin Derivatives Bearing Amino Groups and Evaluation of Their Antifungal Activity. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	2
9	Synthesis of Novel Amino Lactose and Evaluation of Its Antioxidant Property. <i>Starch/Staerke</i> , <b>2018</b> , 70, 1700293	2.3	1
8	Synthesis, Characterization, and Antifungal Activity of N-Quaternized and N-Diquaternized Chitin Derivatives. <i>Starch/Staerke</i> , <b>2018</b> , 70, 1800026	2.3	1
7	Synthesis and characterization of Eipoic acid grafted chitosan derivatives with antioxidant activity. <i>Reactive and Functional Polymers</i> , <b>2022</b> , 172, 105205	4.6	1
6	Facile synthesis, characterization, antioxidant activity, and antibacterial activity of carboxymethyl inulin salt derivatives.. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 199, 138-138	7.9	1
5	The Antioxidant and Antibacterial Activities of the Pyridine-4-Aldehyde Schiff Bases Grafted Chloracetyl Chitosan Oligosaccharide Derivatives. <i>Starch/Staerke</i> , 2100268	2.3	1
4	Enhanced antifungal and antioxidant activities of new chitosan derivatives modified with Schiff base bearing benzenoid/heterocyclic moieties.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> ,	7.9	1
3	Preparation of Doxorubicin-Loaded Carboxymethyl- $\beta$ -Cyclodextrin/Chitosan Nanoparticles with Antioxidant, Antitumor Activities and pH-Sensitive Release. <i>Marine Drugs</i> , <b>2022</b> , 20, 278	6	1
2	Synthesis, characterization, and antioxidant activity of carboxymethyl chitosan derivatives containing sulfonium salt. <i>Journal of Oceanology and Limnology</i> , 1	1.5	0
1	Synthesis, Characterization, and the Antifungal Property of Aminoethyl Chitosan Quaternary Ammonium Salts. <i>Starch/Staerke</i> , <b>2018</b> , 70, 1700266	2.3	