

# Zhanyong Guo

## List of Publications by Year in descending order

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105  
papers

4,371  
citations

101543

36  
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123424

61  
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105  
docs citations

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times ranked

3784  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Antioxidant and Antibacterial Activities of the Pyridine-4-Aldehyde Schiff Bases Grafted Chloroacetyl Chitosan Oligosaccharide Derivatives. <i>Starch/Staerke</i> , 2023, 75, .	2.1	5
2	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.	10.2	25
3	Facile synthesis, characterization, antioxidant activity, and antibacterial activity of carboxymethyl inulin salt derivatives. <i>International Journal of Biological Macromolecules</i> , 2022, 199, 138-149.	7.5	13
4	Antimicrobial and Antioxidant Activities of N-2-Hydroxypropyltrimethyl Ammonium Chitosan Derivatives Bearing Amino Acid Schiff Bases. <i>Marine Drugs</i> , 2022, 20, 86.	4.6	11
5	Synthesis and characterization of $\beta$ -lipoic acid grafted chitosan derivatives with antioxidant activity. <i>Reactive and Functional Polymers</i> , 2022, 172, 105205.	4.1	18
6	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.	7.5	19
7	Preparation of Doxorubicin-Loaded Carboxymethyl- $\beta$ -Cyclodextrin/Chitosan Nanoparticles with Antioxidant, Antitumor Activities and pH-Sensitive Release. <i>Marine Drugs</i> , 2022, 20, 278.	4.6	7
8	Synthesis of Hydroxypropyltrimethyl Ammonium Chitosan Derivatives Bearing Thiocetate and the Potential for Antioxidant Application. <i>Molecules</i> , 2022, 27, 2682.	3.8	1
9	Novel coumarin-functionalized inulin derivatives: Chemical modification and antioxidant activity assessment. <i>Carbohydrate Research</i> , 2022, 518, 108597.	2.3	10
10	Antifungal activity of double Schiff bases of chitosan derivatives bearing active halogeno-benzenes. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 292-298.	7.5	40
11	Modification of carboxymethyl inulin with heterocyclic compounds: Synthesis, characterization, antioxidant and antifungal activities. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 572-581.	7.5	24
12	Novel 2-Hydroxypropyltrimethyl Ammonium Chitosan Derivatives: Synthesis, Characterization, Moisture Absorption and Retention Properties. <i>Molecules</i> , 2021, 26, 4238.	3.8	7
13	Synthesis, Characterization, and Evaluation of Nanoparticles Loading Adriamycin Based on 2-Hydroxypropyltrimethyl Ammonium Chloride Chitosan Grafting Folic Acid. <i>Polymers</i> , 2021, 13, 2229.	4.5	5
14	Determination of chitosan content with Schiff base method and HPLC. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1537-1542.	7.5	10
15	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.	4.6	25
16	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.	7.5	14
17	New synthetic adriamycin-incorporated chitosan nanoparticles with enhanced antioxidant, antitumor activities and pH-sensitive drug release. <i>Carbohydrate Polymers</i> , 2021, 273, 118623.	10.2	25
18	Improved Antioxidant and Antifungal Activity of Chitosan Derivatives Bearing Urea Groups. <i>Starch/Staerke</i> , 2020, 72, 1900205.	2.1	5

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19	Synthesis of Schiff bases modified inulin derivatives for potential antifungal and antioxidant applications. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 714-723.	7.5	26
20	Preparation and physicochemical properties of antioxidant chitosan ascorbate/methylcellulose composite films. <i>International Journal of Biological Macromolecules</i> , 2020, 146, 53-61.	7.5	47
21	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.	7.5	18
22	Phenolic-containing chitosan quaternary ammonium derivatives and their significantly enhanced antioxidant and antitumor properties. <i>Carbohydrate Research</i> , 2020, 498, 108169.	2.3	26
23	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.	7.5	25
24	Determination of chitosan content with ratio coefficient method and HPLC. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 384-388.	7.5	10
25	New synthetic chitosan derivatives bearing benzenoid/heterocyclic moieties with enhanced antioxidant and antifungal activities. <i>Carbohydrate Polymers</i> , 2020, 249, 116847.	10.2	43
26	Modification of Hydroxypropyltrimethyl Ammonium Chitosan with Organic Acid: Synthesis, Characterization, and Antioxidant Activity. <i>Polymers</i> , 2020, 12, 2460.	4.5	9
27	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.	4.6	13
28	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.	7.5	13
29	Cationic chitosan derivatives as potential antifungals: A review of structural optimization and applications. <i>Carbohydrate Polymers</i> , 2020, 236, 116002.	10.2	106
30	Preparation of 2,6-diurea-chitosan oligosaccharide derivatives for efficient antifungal and antioxidant activities. <i>Carbohydrate Polymers</i> , 2020, 234, 115903.	10.2	35
31	Synthesis and Antioxidant Activity of Cationic 1,2,3-Triazole Functionalized Starch Derivatives. <i>Polymers</i> , 2020, 12, 112.	4.5	9
32	Synthesis and Characterization of Inulin Derivatives Bearing Urea Groups with Promising Antifungal Activity. <i>Starch/Staerke</i> , 2019, 71, 1800058.	2.1	5
33	Synthesis, Characterization, and the Antioxidant Activity of Carboxymethyl Chitosan Derivatives Containing Thiourea Salts. <i>Polymers</i> , 2019, 11, 1810.	4.5	23
34	The antioxidant and antifungal activity of chitosan derivatives bearing Schiff bases and quaternary ammonium salts. <i>Carbohydrate Polymers</i> , 2019, 226, 115256.	10.2	99
35	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.	7.5	8
36	Synthesis, Characterization, and Antioxidant Evaluation of Novel Pyridylurea-Functionalized Chitosan Derivatives. <i>Polymers</i> , 2019, 11, 951.	4.5	11

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37	Novel Inulin Derivatives Modified with Schiff Bases: Synthesis, Characterization, and Antifungal Activity. <i>Polymers</i> , 2019, 11, 998.	4.5	7
38	Synthesis of urea-functionalized chitosan derivatives for potential antifungal and antioxidant applications. <i>Carbohydrate Polymers</i> , 2019, 215, 108-118.	10.2	37
39	Synthesis, Characterization, and Antifungal Activity of Schiff Bases of Inulin Bearing Pyridine ring. <i>Polymers</i> , 2019, 11, 371.	4.5	22
40	Physical and Antioxidant Properties of Edible Chitosan Ascorbate Films. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2530-2539.	5.2	52
41	Significantly enhanced antioxidant activity of chitosan through chemical modification with coumarins. <i>Polymer Chemistry</i> , 2019, 10, 1480-1488.	3.9	40
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> , 2019, 129, 1127-1132.	7.5	20
43	Enhanced antioxidant and antifungal activity of chitosan derivatives bearing 6-O-imidazole-based quaternary ammonium salts. <i>Carbohydrate Polymers</i> , 2019, 206, 493-503.	10.2	65
44	Synthesis, Characterization, and the Antifungal Property of Aminoethyl Chitosan Quaternary Ammonium Salts. <i>Starch/Staerke</i> , 2018, 70, 1700266.	2.1	2
45	Synthesis of Novel Amino Lactose and Evaluation of Its Antioxidant Property. <i>Starch/Staerke</i> , 2018, 70, 1700293.	2.1	1
46	Synthesis of inulin derivatives with quaternary phosphonium salts and their antifungal activity. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 1273-1278.	7.5	29
47	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.	7.5	30
48	Synthesis, characterization, and the antifungal activity of chitosan derivatives containing urea groups. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1061-1067.	7.5	33
49	Novel cationic chitosan derivative bearing 1,2,3-triazolium and pyridinium: Synthesis, characterization, and antifungal property. <i>Carbohydrate Polymers</i> , 2018, 182, 180-187.	10.2	65
50	Radical Scavenging Activities of Novel Cationic Inulin Derivatives. <i>Polymers</i> , 2018, 10, 1295.	4.5	3
51	Synthesis, Characterization, and Antifungal Activity of Pyridine-Based Triple Quaternized Chitosan Derivatives. <i>Molecules</i> , 2018, 23, 2604.	3.8	18
52	Synthesis of Novel Chitin Derivatives Bearing Amino Groups and Evaluation of Their Antifungal Activity. <i>Marine Drugs</i> , 2018, 16, 380.	4.6	7
53	Synthesis, Characterization, and Antifungal Property of Hydroxypropyltrimethyl Ammonium Chitosan Halogenated Acetates. <i>Marine Drugs</i> , 2018, 16, 315.	4.6	29
54	Antioxidant Activity and Antifungal Activity of Chitosan Derivatives with Propane Sulfonate Groups. <i>Polymers</i> , 2018, 10, 395.	4.5	32

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55	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.	10.2	41
56	Novel Water Soluble Chitosan Derivatives with 1,2,3-Triazolium and Their Free Radical-Scavenging Activity. <i>Marine Drugs</i> , 2018, 16, 107.	4.6	20
57	Preparation and Characterization of Quaternized Chitosan Derivatives and Assessment of Their Antioxidant Activity. <i>Molecules</i> , 2018, 23, 516.	3.8	59
58	Synthesis of Quaternary Ammonium Salts of Chitosan Bearing Halogenated Acetate for Antifungal and Antibacterial Activities. <i>Polymers</i> , 2018, 10, 530.	4.5	23
59	Synthesis, Characterization, and Antifungal Activity of N-Quaternized and N-Diquaternized Chitin Derivatives. <i>Starch/Staerke</i> , 2018, 70, 1800026.	2.1	3
60	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.	7.5	35
61	Synthesis, characterization, and the antioxidant activity of N,N,N-trimethyl chitosan salts. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 9-14.	7.5	49
62	Novel 1,2,3-triazolium-functionalized starch derivatives: Synthesis, characterization, and evaluation of antifungal property. <i>Carbohydrate Polymers</i> , 2017, 160, 163-171.	10.2	34
63	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.	7.5	51
64	The influence of starch derivatives with benzene or halogenated benzene on antibacterial activity. <i>Starch/Staerke</i> , 2017, 69, 1600350.	2.1	8
65	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.	7.5	24
66	Synthesis, characterization, and antifungal property of starch derivatives modified with quaternary phosphonium salts. <i>Materials Science and Engineering C</i> , 2017, 76, 1048-1056.	7.3	26
67	Synthesis of aminopyridinium-grafted starch derivatives and evaluation of their antioxidant property. <i>Starch/Staerke</i> , 2017, 69, 1600259.	2.1	11
68	Novel 1,2,3-triazolium-functionalized inulin derivatives: synthesis, free radical-scavenging activity, and antifungal activity. <i>RSC Advances</i> , 2017, 7, 42225-42232.	3.6	23
69	Synthesis and antioxidant ability of 6,6'-diamino-6,6'-dideoxytrehalose. <i>Bioorganic Chemistry</i> , 2017, 74, 66-71.	4.1	12
70	Antioxidant activity of inulin derivatives with quaternary ammonium. <i>Starch/Staerke</i> , 2017, 69, 1700046.	2.1	9
71	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.	10.2	32
72	Novel Amino-Pyridine Functionalized Chitosan Quaternary Ammonium Derivatives: Design, Synthesis, and Antioxidant Activity. <i>Molecules</i> , 2017, 22, 156.	3.8	43

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73	Synthesis, Characterization, and the Antioxidant Activity of Double Quaternized Chitosan Derivatives. <i>Molecules</i> , 2017, 22, 501.	3.8	32
74	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.	3.8	34
75	Synthesis, characterization, and antifungal property of chitosan ammonium salts with halogens. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 293-298.	7.5	45
76	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.	7.5	58
77	Synthesis, characterization, and antibacterial property of novel starch derivatives with 1,2,3-triazole. <i>Carbohydrate Polymers</i> , 2016, 142, 1-7.	10.2	50
78	Synthesis and antioxidant property of novel 1,2,3-triazole-linked starch derivatives via $\text{\AA}$ -click chemistry $\text{\AA}$ <sup>TM</sup> . <i>International Journal of Biological Macromolecules</i> , 2016, 82, 404-410.	7.5	73
79	Extraction, degree of polymerization determination and prebiotic effect evaluation of inulin from Jerusalem artichoke. <i>Carbohydrate Polymers</i> , 2015, 121, 315-319.	10.2	90
80	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.	2.3	33
81	Synthesis, characterization, and antifungal activity of novel inulin derivatives with chlorinated benzene. <i>Carbohydrate Polymers</i> , 2014, 99, 469-473.	10.2	42
82	Synthesis of amphiphilic aminated inulin via $\text{\AA}$ -click chemistry $\text{\AA}$ <sup>TM</sup> and evaluation for its antibacterial activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4590-4593.	2.2	24
83	Synthesis, characterization, and antioxidant properties of novel inulin derivatives with amino-pyridine group. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 44-49.	7.5	82
84	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.	2.6	28
85	Synthesis and antifungal activity of thiazole-functionalized chitosan derivatives. <i>Carbohydrate Research</i> , 2013, 373, 103-107.	2.3	52
86	Phenolic antioxidants-functionalized quaternized chitosan: Synthesis and antioxidant properties. <i>International Journal of Biological Macromolecules</i> , 2013, 53, 77-81.	7.5	67
87	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.	10.2	34
88	Antifungal properties of chitosan salts in laboratory media. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2501-2507.	2.6	14
89	Highly efficient synthesis and antioxidant activity of O-(aminoethyl)inulin. <i>Carbohydrate Polymers</i> , 2011, 83, 1240-1244.	10.2	25
90	Synthesis and hydroxyl radicals scavenging activity of N-(aminoethyl)inulin. <i>Carbohydrate Polymers</i> , 2011, 85, 268-271.	10.2	30

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91	The hydroxyl radical scavenging activity of chitosan, hyaluronan, starch and their O-carboxymethylated derivatives. <i>Carbohydrate Polymers</i> , 2010, 82, 1043-1045.	10.2	65
92	Synthesis, characterization, and antifungal activity of novel quaternary chitosan derivatives. <i>Carbohydrate Research</i> , 2010, 345, 1896-1900.	2.3	60
93	The influence of the cation of quaternized chitosans on antioxidant activity. <i>Carbohydrate Polymers</i> , 2009, 78, 439-443.	10.2	61
94	The influence of molecular weight of quaternized chitosan on antifungal activity. <i>Carbohydrate Polymers</i> , 2008, 71, 694-697.	10.2	107
95	Synthesis and hydroxyl radicals scavenging activity of quaternized carboxymethyl chitosan. <i>Carbohydrate Polymers</i> , 2008, 73, 173-177.	10.2	75
96	The influence of the cationic of quaternized chitosan on antifungal activity. <i>International Journal of Food Microbiology</i> , 2007, 118, 214-217.	4.7	70
97	Antifungal properties of Schiff bases of chitosan, N-substituted chitosan and quaternized chitosan. <i>Carbohydrate Research</i> , 2007, 342, 1329-1332.	2.3	299
98	Synthesis and antifungal properties of sulfanilamide derivatives of chitosan. <i>Carbohydrate Research</i> , 2007, 342, 2390-2395.	2.3	64
99	Novel derivatives of chitosan and their antifungal activities in vitro. <i>Carbohydrate Research</i> , 2006, 341, 351-354.	2.3	153
100	The antioxidant activity of glucosamine hydrochloride in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 1706-1709.	3.0	98
101	Hydroxyl radicals scavenging activity of N-substituted chitosan and quaternized chitosan. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 6348-6350.	2.2	94
102	Relevance of molecular weight of chitosan and its derivatives and their antioxidant activities in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 1573-1577.	3.0	253
103	The synthesis and antioxidant activity of the Schiff bases of chitosan and carboxymethyl chitosan. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 4600-4603.	2.2	251
104	Preparation of high-molecular weight and high-sulfate content chitosans and their potential antioxidant activity in vitro. <i>Carbohydrate Polymers</i> , 2005, 61, 148-154.	10.2	118
105	Synthesis, characterization, and antioxidant activity of carboxymethyl chitosan derivatives containing sulfonium salt. <i>Journal of Oceanology and Limnology</i> , 0, , 1.	1.3	5