Li-Qiang Chu

List of Publications by Year in Descending Order

46 papers	1,473 citations	21 h-index	38 g-index
46 ext. papers	1,733 ext. citations	6.6 avg, IF	4.95 L-index

#	Paper	IF	Citations
46	Facile production of three-dimensional chitosan fiber embedded with zinc oxide as recoverable photocatalyst for organic dye degradation. *International Journal of Biological Macromolecules*, **2021**, 181, 150-159	7.9	3
45	Gelation process of carboxymethyl chitosan-zinc supramolecular hydrogel studied with fluorescence imaging and mathematical modelling. *International Journal of Pharmaceutics*, **2021**, 605, 120804	6.5	2
44	Enhanced fluorescence of carboxymethyl chitosan via metal ion complexation in both solution and hydrogel states. *International Journal of Biological Macromolecules*, **2020**, 152, 50-56	7.9	16
43	Facile synthesis of bacterial cellulose and polyethyleneimine based hybrid hydrogels for antibacterial applications. *Cellulose*, **2020**, 27, 369-383	5.5	23
42	Exosomes from different cells: Characteristics, modifications, and therapeutic applications. *European Journal of Medicinal Chemistry*, **2020**, 207, 112784	6.8	18
41	Development and antibacterial activities of bacterial cellulose/graphene oxide-CuO nanocomposite films. *Carbohydrate Polymers*, **2020**, 229, 115456	10.3	82
40	Continuous production of antibacterial carboxymethyl chitosan-zinc supramolecular hydrogel fiber using a double-syringe injection device. *International Journal of Biological Macromolecules*, **2020**, 156, 252-261	7.9	23
39	Reusable ternary PVA films containing bacterial cellulose fibers and ε-polylysine with improved mechanical and antibacterial properties. *Colloids and Surfaces B: Biointerfaces*, **2019**, 183, 110486	6	21
38	Polyadenine-mediated Immobilization of Aptamers on a Gold Substrate for the Direct Detection of Bacterial Pathogens. *Analytical Sciences*, **2019**, 35, 967-972	1.7	8
37	A facile construction of bacterial cellulose/ZnO nanocomposite films and their photocatalytic and antibacterial properties. *International Journal of Biological Macromolecules*, **2019**, 132, 692-700	7.9	62
36	Preparation and antibacterial activity of silver-loaded poly(oligo(ethylene glycol) methacrylate) brush. *Journal of Biomaterials Science, Polymer Edition*, **2019**, 30, 756-768	3.5	0
35	Direct immobilization of sugar probes on bovine serum albumin-coated gold substrate for the development of glycan biosensors. *Biointerphases*, **2019**, 14, 011003	1.8	2
34	Applications of cellulose and chitin/chitosan derivatives and composites as antibacterial materials: current state and perspectives. *Applied Microbiology and Biotechnology*, **2019**, 103, 1989-2006	5.7	56
33	Development of bacterial cellulose/chitosan based semi-interpenetrating hydrogels with improved mechanical and antibacterial properties. *International Journal of Biological Macromolecules*, **2019**, 122, 380-387	7.9	104
32	Fluorescent Neomannosyl Bovine Serum Albumin as Efficient Probe for Mannose Receptor Imaging and MCF-7 Cancer Cell Targeting. *ACS Applied Nano Materials*, **2018**, 1, 1058-1065	5.6	11
31	Injectable self-healing carboxymethyl chitosan-zinc supramolecular hydrogels and their antibacterial activity. *International Journal of Biological Macromolecules*, **2018**, 114, 1233-1239	7.9	57
30	Surface Plasmon Resonance Studies of the Hybridization Behavior of DNA-Modified Gold Nanoparticles with Surface-Attached DNA Probes. *Plasmonics*, **2018**, 13, 903-913	2.4	5

29	Young's modulus of plasma-polymerized allylamine films using micromechanical cantilever sensor and laser-based surface acoustic wave techniques. *Plasma Processes and Polymers*, **2018**, 15, 1800083	3.4	6
28	Harnessing the affinity of magnetic nanoparticles toward dye-labeled DNA and developing it as an universal aptasensor revealed by lipopolysaccharide detection. *Analytica Chimica Acta*, **2018**, 1036, 107-114	6.6	17
27	Facile fabrication of moldable antibacterial carboxymethyl chitosan supramolecular hydrogels cross-linked by metal ions complexation. *Carbohydrate Polymers*, **2017**, 165, 455-461	10.3	71
26	Incorporation of multilayered silver nanoparticles into polymer brushes as 3-dimensional SERS substrates and their application for bacteria detection. *Applied Surface Science*, **2017**, 407, 185-191	6.7	9
25	Facile Incorporation of Silver Nanoparticles into Quaternized Poly(2-(Dimethylamino)Ethyl Methacrylate) Brushes as Bifunctional Antibacterial Coatings. *Macromolecular Materials and Engineering*, **2017**, 302, 1700069	3.9	15
24	Preparation, characterization and antibacterial applications of carboxymethyl chitosan/CuO nanocomposite hydrogels. *International Journal of Biological Macromolecules*, **2017**, 101, 690-695	7.9	75
23	BSA-Sugar Conjugates as Ideal Building Blocks for SPR-Based Glycan Biosensors. *ACS Sensors*, **2017**, 2, 57-60	9.2	14
22	Preparation and characterization of a photocatalytic antibacterial material: Graphene oxide/TiO/bacterial cellulose nanocomposite. *Carbohydrate Polymers*, **2017**, 174, 1078-1086	10.3	52
21	Recent Advances in Antimicrobial Hydrogels Containing Metal Ions and Metals/Metal Oxide Nanoparticles. *Polymers*, **2017**, 9,	4.5	72
20	Immobilization of silver nanoparticles into POEGMA polymer brushes as SERS-active substrates. *Surface and Interface Analysis*, **2017**, 49, 316-322	1.5	6
19	Improvement of antimicrobial activity of graphene oxide/bacterial cellulose nanocomposites through the electrostatic modification. *Carbohydrate Polymers*, **2016**, 136, 1152-60	10.3	36
18	Influence of Plasma Polymerized Dielectric Buffer Layer and Gold Film on the Excitation of Long-Range Surface Plasmon Resonance. *Plasmonics*, **2016**, 11, 1519-1524	2.4	7
17	Synthesis and characterization of antibacterial carboxymethyl Chitosan/ZnO nanocomposite hydrogels. *International Journal of Biological Macromolecules*, **2016**, 88, 273-9	7.9	106
16	Long-range surface plasmon resonance sensors fabricated with plasma polymerized fluorocarbon thin films. *Sensors and Actuators B: Chemical*, **2015**, 215, 368-372	8.5	14
15	Surface Plasmon-Based Techniques for the Analysis of Plasma Deposited Functional Films and Surfaces. *Plasma Processes and Polymers*, **2015**, 12, 941-952	3.4	14
14	Ultrafast transient absorption microscopy studies of carrier dynamics in epitaxial graphene. *Nano Letters*, **2010**, 10, 1308-13	11.5	143
13	Spatial correlation of confocal Raman scattering and secondary ion mass spectrometric molecular images of lignocellulosic materials. *Analytical Chemistry*, **2010**, 82, 2608-11	7.8	32
12	Base-induced delignification of Miscanthus x giganteus studied by three-dimensional confocal Raman imaging. *Bioresource Technology*, **2010**, 101, 4919-25	11	53

11	Plasma polymerized non-fouling thin films for DNA immobilization. *Biosensors and Bioelectronics*, **2009**, 25, 519-22	11.8	9
10	Plasma polymerized epoxide functional surfaces for DNA probe immobilization. *Biosensors and Bioelectronics*, **2008**, 24, 118-22	11.8	18
9	Thermosensitive surfaces fabricated by plasma polymerization of N,N-diethylacrylamide. *Surface and Coatings Technology*, **2008**, 202, 2047-2051	4.4	24
8	Surface-plasmon-enhanced fluorescence spectroscopy for DNA detection using fluorescently labeled PNA as "DNA indicator". *Angewandte Chemie - International Edition*, **2007**, 46, 4944-7	16.4	46
7	Surface-Plasmon-Enhanced Fluorescence Spectroscopy for DNA Detection Using Fluorescently Labeled PNA as DNA Indicator *Angewandte Chemie*, **2007**, 119, 5032-5035	3.6	17
6	In situ characterization of moisture sorption/desorption in thin polymer films using optical waveguide spectroscopy. *Polymer*, **2006**, 47, 7406-7413	3.9	13
5	Characterization of UV-Induced Graft Polymerization of Poly(acrylic acid) Using Optical Waveguide Spectroscopy. *Macromolecules*, **2006**, 39, 8742-8746	5.5	18
4	Pulsed Plasma Polymerized Di(ethylene glycol) Monovinyl Ether Coatings for Nonfouling Surfaces. *Chemistry of Materials*, **2006**, 18, 4840-4844	9.6	32
3	Stabilization of plasma-polymerized allylamine films by ethanol extraction. *Langmuir*, **2006**, 22, 5548-51	4	36
2	Pulsed plasma polymerized maleic anhydride films in humid air and in aqueous solutions studied with optical waveguide spectroscopy. *Langmuir*, **2006**, 22, 2822-6	4	24
1	Plasma-Polymerized Allylamine Thin Films for DNA Sensing271-283		1