

Ruitao Cha

List of Publications by Year in descending order

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35
papers

1,740
citations

304368

22
h-index

360668

35
g-index

36
all docs

36
docs citations

36
times ranked

2479
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Detection of Pathogens and Viruses: Combining Magnetic Relaxation Switching and Magnetic Separation. ACS Nano, 2015, 9, 3184-3191.	7.3	182
2	Advances in tissue engineering of nanocellulose-based scaffolds: A review. Carbohydrate Polymers, 2019, 224, 115144.	5.1	157
3	Nanocellulose-Based Antibacterial Materials. Advanced Healthcare Materials, 2018, 7, e1800334.	3.9	149
4	Preparation and characterization of thermal/pH-sensitive hydrogel from carboxylated nanocrystalline cellulose. Carbohydrate Polymers, 2012, 88, 713-718.	5.1	142
5	An automated and portable microfluidic chemiluminescence immunoassay for quantitative detection of biomarkers. Lab on A Chip, 2017, 17, 2225-2234.	3.1	93
6	Nanocrystalline Cellulose-Assisted Generation of Silver Nanoparticles for Nonenzymatic Glucose Detection and Antibacterial Agent. Biomacromolecules, 2016, 17, 2472-2478.	2.6	83
7	Water-soluble nanocrystalline cellulose films with highly transparent and oxygen barrier properties. Nanoscale, 2016, 8, 973-978.	2.8	81
8	2,3-Dialdehyde nanofibrillated cellulose as a potential material for the treatment of MRSA infection. Journal of Materials Chemistry B, 2017, 5, 7876-7884.	2.9	79
9	Gold Nanoparticles Cure Bacterial Infection with Benefit to Intestinal Microflora. ACS Nano, 2019, 13, 5002-5014.	7.3	73
10	A review on nanocellulose as a lightweight filler of polyolefin composites. Carbohydrate Polymers, 2020, 243, 116466.	5.1	54
11	Modified Fenton Oxidation of Cellulose Fibers for Cellulose Nanofibrils Preparation. ACS Sustainable Chemistry and Engineering, 2019, 7, 1129-1136.	3.2	50
12	Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. Carbohydrate Polymers, 2015, 130, 275-279.	5.1	47
13	Hydroxypropyl Guar/Cellulose Nanocrystal Film with Ionic Liquid and Anthocyanin for Real-Time and Visual Detection of NH ₃ . ACS Sustainable Chemistry and Engineering, 2020, 8, 9731-9741.	3.2	47
14	Development of cellulose paper testing strips for quick measurement of glucose using chromogen agent. Carbohydrate Polymers, 2012, 88, 1414-1419.	5.1	43
15	Nanocrystalline cellulose-dispersed AKD emulsion for enhancing the mechanical and multiple barrier properties of surface-sized paper. Carbohydrate Polymers, 2016, 136, 1035-1040.	5.1	42
16	Preparation of green and gelatin-free nanocrystalline cellulose capsules. Carbohydrate Polymers, 2017, 164, 358-363.	5.1	34
17	Using carboxylated nanocrystalline cellulose as an additive in cellulosic paper and poly (vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.1	32
18	Fe ₃ O ₄ nanoparticles modified by CD-containing star polymer for MRI and drug delivery. Colloids and Surfaces B: Biointerfaces, 2017, 158, 213-221.	2.5	32

#	ARTICLE	IF	CITATIONS
19	Cellulose nanocrystals as reinforcements for collagen-based casings with low gas transmission. <i>Cellulose</i> , 2018, 25, 463-471.	2.4	31
20	Nanomaterials for the theranostics of obesity. <i>Biomaterials</i> , 2019, 223, 119474.	5.7	27
21	Development of antimicrobial oxidized cellulose film for active food packaging. <i>Carbohydrate Polymers</i> , 2022, 278, 118922.	5.1	26
22	Dialdehyde Nanocrystalline Cellulose as Antibiotic Substitutes against Multidrug-Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33802-33811.	4.0	24
23	Fabrication of cellulose/graphene paper as a stable-cycling anode materials without collector. <i>Carbohydrate Polymers</i> , 2018, 184, 30-36.	5.1	23
24	Cellophane or Nanopaper: Which Is Better for the Substrates of Flexible Electronic Devices?. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7774-7784.	3.2	23
25	A microfluidic indirect competitive immunoassay for multiple and sensitive detection of testosterone in serum and urine. <i>Analyst</i> , 2016, 141, 815-819.	1.7	22
26	Advances in polysaccharide nanocrystals as pharmaceutical excipients. <i>Carbohydrate Polymers</i> , 2021, 262, 117922.	5.1	21
27	Iron oxide nanoparticles for targeted imaging of liver tumors with ultralow hepatotoxicity. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6413-6423.	2.9	20
28	High-efficiency transfer of fingerprints from various surfaces using nanofibrillated cellulose. <i>Nanoscale Horizons</i> , 2019, 4, 953-959.	4.1	18
29	Cellulosic substrate materials with multi-scale building blocks: fabrications, properties and applications in bioelectronic devices. <i>Chemical Engineering Journal</i> , 2022, 430, 132562.	6.6	17
30	Manufacture of Hydrophobic Nanocomposite Films with High Printability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15404-15412.	3.2	16
31	The biocompatibility evaluation of iron oxide nanoparticles synthesized by a one pot process for intravenous iron supply. <i>RSC Advances</i> , 2016, 6, 14329-14334.	1.7	14
32	Anticoagulant Hydrogel Tubes with Poly(ϵ -Caprolactone) Sheaths for Small-Diameter Vascular Grafts. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100839.	3.9	13
33	Impact of nanomaterials on the intestinal mucosal barrier and its application in treating intestinal diseases. <i>Nanoscale Horizons</i> , 2021, 7, 6-30.	4.1	13
34	Adsorptivity of cationic cellulose nanocrystals for phosphate and its application in hyperphosphatemia therapy. <i>Carbohydrate Polymers</i> , 2021, 255, 117335.	5.1	7
35	The Effect of Different Additives on the Hydration and Gelation Properties of Composite Dental Gypsum. <i>Gels</i> , 2021, 7, 117.	2.1	5