Huayao Chen

List of Publications by Year
in descending order

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36 papers	969 citations	430874 18 h-index	454955 30 g-index
36 all docs	36 docs citations	36 times ranked	677 citing authors

#	Article	IF	Citations
1	Essential oil-loaded chitosan/zinc (II) montmorillonite synergistic sustained-release system as antibacterial material. Journal of Dispersion Science and Technology, 2023, 44, 288-298.	2.4	2
2	A highâ€efficient nano pesticideâ€fertilizer combination fabricated by amino acidâ€modified cellulose based carriers. Pest Management Science, 2022, 78, 506-520.	3.4	24
3	pH/redox dual responsive from natural polymer-based nanoparticles for on-demand delivery of pesticides. Chemical Engineering Journal, 2022, 435, 134861.	12.7	60
4	Rosin modified aminated mesoporous silica adsorbed tea tree oil sustained-release system for improve synergistic antibacterial and long-term antibacterial effects. Nanotechnology, 2021, 32, 275707.	2.6	11
5	A stable polyamineâ€modified zeinâ€based nanoformulation with high foliar affinity and lowered toxicity for sustained avermectin release. Pest Management Science, 2021, 77, 3300-3312.	3.4	18
6	Natural rosin modified carboxymethyl cellulose delivery system with lowered toxicity for long-term pest control. Carbohydrate Polymers, 2021, 259, 117749.	10.2	51
7	Preparation of p-amino salicylic acid-modified polysuccinimide as water-based nanocarriers for enhancing pesticide stability and insecticidal activity. Colloids and Surfaces B: Biointerfaces, 2021, 207, 111990.	5.0	5
8	Functionalization of boron nitride nanosheets via thiol terminated polyethyleneimine to enhance aqueous dispersibility and efficiency as carriers for essential oils and pesticides. Chemical Engineering Journal, 2021, 423, 130166.	12.7	21
9	Fluorinated sodium carboxymethyl cellulose nanoparticles as carrier for improving adhesion and sustaining release of AVM. Journal of Macromolecular Science - Pure and Applied Chemistry, 2021, 58, 219-231.	2.2	5
10	Mt-supported ZnO/TiO2 nanocomposite for agricultural antibacterial agent involving enhanced antibacterial activity and increased wettability. Applied Clay Science, 2021, 214, 106296.	5.2	12
11	Synthesis of pHâ€responsive isolated soy protein/carboxymethyl chitosan microspheres for sustained pesticide release. Journal of Applied Polymer Science, 2020, 137, 48358.	2.6	11
12	Synergistic antimicrobial activities of tea tree oil loaded on mesoporous silica encapsulated by polyethyleneimine. Journal of Dispersion Science and Technology, 2020, 41, 1859-1871.	2.4	21
13	Long-lasting anti-bacterial activity and bacteriostatic mechanism of tea tree oil adsorbed on the amino-functionalized mesoporous silica-coated by PAA. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110784.	5.0	49
14	Carboxymethyl cellulose capsulated zein as pesticide nano-delivery system for improving adhesion and anti-UV properties. Carbohydrate Polymers, 2020, 231, 115725.	10.2	58
15	Triazolone/alginate-zinc (II)-montmorillonite sustained release system with improved adsorption capacity and pH-sensitivity. SN Applied Sciences, 2020, 2, 1.	2.9	2
16	Preparation and Characterization of Zein-Based Nanoparticles via Ring-Opening Reaction and Self-Assembly as Aqueous Nanocarriers for Pesticides. Journal of Agricultural and Food Chemistry, 2020, 68, 9624-9635.	5.2	23
17	Composite pesticide nanocarriers involving functionalized boron nitride nanoplatelets for pH-responsive release and enhanced UV stability. Chemical Engineering Journal, 2020, 396, 125233.	12.7	86
18	Synthesis of mesoporous silica post-loaded by methyl eugenol as an environment-friendly slow-release bio pesticide. Scientific Reports, 2020, 10, 6108.	3.3	18

#	Article	IF	Citations
19	Carboxymethyl chitosan grafted trisiloxane surfactant nanoparticles with pH sensitivity for sustained release of pesticide. Carbohydrate Polymers, 2020, 243, 116433.	10.2	67
20	Facile Mechanical-Induced Functionalization of Hexagonal Boron Nitride and Its Application as Vehicles for Antibacterial Essential Oil. ACS Sustainable Chemistry and Engineering, 2020, 8, 15120-15133.	6.7	25
21	Phosphorylated Zein as Biodegradable and Aqueous Nanocarriers for Pesticides with Sustained-Release and anti-UV Properties. Journal of Agricultural and Food Chemistry, 2019, 67, 9989-9999.	5.2	51
22	Coordination bonding-based polydopamine-modified mesoporous silica for sustained avermectin release. Materials Science and Engineering C, 2019, 105, 110073.	7.3	51
23	Soy protein isolate-carboxymethyl cellulose conjugates with pH sensitivity for sustained avermectin release. Royal Society Open Science, 2019, 6, 190685.	2.4	14
24	Hydrazone-linked soybean protein isolate-carboxymethyl cellulose conjugates for pH-responsive controlled release of pesticides. Polymer Journal, 2019, 51, 1211-1222.	2.7	15
25	One-step synthesis of methyl eugenol/Schiff base mesoporous silica nanoparticles sustained-release performance with high lure efficiency. Journal of Sol-Gel Science and Technology, 2019, 92, 723-735.	2.4	5
26	One step synthesis, characterization of F127-Mn+-chlorpyrifos mesoporous silica for sustained release system with pH sensitivity. Journal of Macromolecular Science - Pure and Applied Chemistry, 2019, 56, 34-41.	2.2	4
27	Preparation of pH-responsive avermectin/feather keratin-hyaluronic acid with anti-UV and sustained-release properties. Colloids and Surfaces B: Biointerfaces, 2019, 175, 291-299.	5.0	29
28	Preparation of 2,4â€dichlorophenoxyacetic acid loaded on cysteamineâ€modified polydopamine and its release behaviors. Journal of Applied Polymer Science, 2019, 136, 47469.	2.6	6
29	Preparation of Avermectin/Grafted CMC Nanoparticles and Their Sustained Release Performance. Journal of Polymers and the Environment, 2018, 26, 2945-2953.	5.0	22
30	Preparation of Tea Tree Oil/Poly(styrene-butyl methacrylate) Microspheres with Sustained Release and Anti-Bacterial Properties. Materials, 2018, 11, 710.	2.9	25
31	Highly efficient triazolone/metal ion/polydopamine/MCM-41 sustained release system with pH sensitivity for pesticide delivery. Royal Society Open Science, 2018, 5, 180658.	2.4	19
32	Synthesis of Nano-Zinc Oxide Loaded on Mesoporous Silica by Coordination Effect and Its Photocatalytic Degradation Property of Methyl Orange. Nanomaterials, 2018, 8, 317.	4.1	57
33	Preparation of sustained-release chlorpyrifos particles via the emulsification coacervation method and their sustained-release performance. Journal of Macromolecular Science - Pure and Applied Chemistry, 2017, 54, 91-96.	2.2	10
34	Synthesis and applications of MANs/poly(MMA-co-BA) nanocomposite latex by miniemulsion polymerization. Royal Society Open Science, 2017, 4, 170844.	2.4	7
35	Synthesis and Characterization of Chlorpyrifos/Copper(II) Schiff Base Mesoporous Silica with pH Sensitivity for Pesticide Sustained Release. Journal of Agricultural and Food Chemistry, 2016, 64, 8095-8102.	5.2	80
36	Long effective tea tree oil/mesoporous silica sustained release system decorated by polyethyleneimine with high antibacterial performance. Journal of Dispersion Science and Technology, 0, , 1-12.	2.4	5