Zhengyan Wu

List of Publications by Year in descending order

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		126708	182168	
105	3,185	33	51	
papers	citations	h-index	g-index	
105	105	105	3538	
all docs	docs citations	times ranked	citing authors	

#	Article	IF	CITATIONS
1	Fabrication of a pH-Responsively Controlled-Release Pesticide Using an Attapulgite-Based Hydrogel. ACS Sustainable Chemistry and Engineering, 2018, 6, 1192-1201.	3.2	131
2	Synthesis of a Multifunctional Graphene Oxide-Based Magnetic Nanocomposite for Efficient Removal of Cr(VI). Langmuir, 2017, 33, 7007-7014.	1.6	99
3	A pH-responsive platform combining chemodynamic therapy with limotherapy for simultaneous bioimaging and synergistic cancer therapy. Biomaterials, 2019, 216, 119254.	5.7	95
4	Fabrication of light-responsively controlled-release herbicide using a nanocomposite. Chemical Engineering Journal, 2018, 349, 101-110.	6.6	93
5	A pH-Responsive Yolk-Like Nanoplatform for Tumor Targeted Dual-Mode Magnetic Resonance Imaging and Chemotherapy. ACS Nano, 2017, 11, 7049-7059.	7.3	92
6	Adsorption of Polycyclic Aromatic Hydrocarbons (Fluoranthene and Anthracenemethanol) by Functional Graphene Oxide and Removal by pH and Temperature-Sensitive Coagulation. ACS Applied Materials & Samp; Interfaces, 2013, 5, 4783-4790.	4.0	90
7	Adsorption of methylene blue from aqueous solution onto multiporous palygorskite modified by ion beam bombardment: Effect of contact time, temperature, pH and ionic strength. Applied Clay Science, 2013, 83-84, 137-143.	2.6	86
8	Fabrication of a Temperature-Controlled-Release Herbicide Using a Nanocomposite. ACS Sustainable Chemistry and Engineering, 2017, 5, 4969-4975.	3.2	84
9	A biodegradable MnSiO3@Fe3O4 nanoplatform for dual-mode magnetic resonance imaging guided combinatorial cancer therapy. Biomaterials, 2019, 194, 151-160.	5.7	83
10	Controlling Pesticide Loss through Nanonetworks. ACS Sustainable Chemistry and Engineering, 2014, 2, 918-924.	3.2	80
11	Fabrication of a High-Performance Fertilizer To Control the Loss of Water and Nutrient Using Micro/Nano Networks. ACS Sustainable Chemistry and Engineering, 2015, 3, 645-653.	3.2	79
12	Functionalized Fe ₃ O ₄ @C Nanospheres with Adjustable Structure for Efficient Hexavalent Chromium Removal. ACS Sustainable Chemistry and Engineering, 2017, 5, 11042-11050.	3.2	75
13	Fabrication of a controllable nanopesticide system with magnetic collectability. Chemical Engineering Journal, 2017, 328, 320-330.	6.6	75
14	Gadoliniumâ€Doped Iron Oxide Nanoprobe as Multifunctional Bioimaging Agent and Drug Delivery System. Advanced Functional Materials, 2015, 25, 6101-6111.	7.8	66
15	Controlling Pesticide Loss by Natural Porous Micro/Nano Composites: Straw Ash-Based Biochar and Biosilica. ACS Applied Materials & Samp; Interfaces, 2013, 5, 9212-9216.	4.0	62
16	Kinetics, reaction pathways, and mechanism investigation for improved environmental remediation by OD/3D CdTe/Bi2WO6 Z-scheme catalyst. Applied Catalysis B: Environmental, 2021, 285, 119877.	10.8	62
17	Hydroxylated Mesoporous Nanosilica Coated by Polyethylenimine Coupled with Gadolinium and Folic Acid: A Tumor-Targeted <i>T</i>		

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19	Manganese-deposited iron oxide promotes tumor-responsive ferroptosis that synergizes the apoptosis of cisplatin. Theranostics, 2021, 11, 5418-5429.	4.6	57
20	Efficient Synthesis of Starch-Regulated Porous Calcium Carbonate Microspheres as a Carrier for Slow-Release Herbicide. ACS Sustainable Chemistry and Engineering, 2018, 6, 3649-3658.	3.2	55
21	A potential Mg-enriched biochar fertilizer: Excellent slow-release performance and release mechanism of nutrients. Science of the Total Environment, 2021, 768, 144454.	3.9	54
22	Composite of Functional Mesoporous Silica and DNA: An Enzyme-Responsive Controlled Release Drug Carrier System. ACS Applied Materials & Interfaces, 2014, 6, 8042-8047.	4.0	52
23	Flocculation of harmful algal blooms by modified attapulgite and its safety evaluation. Water Research, 2011, 45, 2855-2862.	5.3	44
24	Improvement of Cr (VI) photoreduction under visible-light by g-C3N4 modified by nano-network structured palygorskite. Chemical Engineering Journal, 2019, 358, 398-407.	6.6	44
25	Stimuli-responsive hydrogel as carrier for controlling the release and leaching behavior of hydrophilic pesticide. Science of the Total Environment, 2020, 722, 137811.	3.9	44
26	Remediation of Cr(VI)-Contaminated Acid Soil Using a Nanocomposite. ACS Sustainable Chemistry and Engineering, 2017, 5, 2246-2254.	3.2	41
27	Remediation of Cr(VI) contaminated soil using long-duration sodium thiosulfate supported by micro–nano networks. Journal of Hazardous Materials, 2015, 294, 64-69.	6.5	39
28	Fabrication of pH-Controlled-Release Ferrous Foliar Fertilizer with High Adhesion Capacity Based on Nanobiomaterial. ACS Sustainable Chemistry and Engineering, 2016, 4, 6800-6808.	3.2	38
29	Oxygen-enriched Fe3O4/Gd2O3 nanopeanuts for tumor-targeting MRI and ROS-triggered dual-modal cancer therapy through platinum (IV) prodrugs delivery. Chemical Engineering Journal, 2020, 388, 124269.	6.6	38
30	Infrared-Light-Responsive Controlled-Release Pesticide Using Hollow Carbon Microspheres@Polyethylene Glycol/α-Cyclodextrin Gel. Journal of Agricultural and Food Chemistry, 2021, 69, 6981-6988.	2.4	37
31	Immediate remediation of heavy metal (Cr(VI)) contaminated soil by high energy electron beam irradiation. Journal of Hazardous Materials, 2015, 285, 208-211.	6.5	36
32	Effective pH-Activated Theranostic Platform for Synchronous Magnetic Resonance Imaging Diagnosis and Chemotherapy. ACS Applied Materials & Samp; Interfaces, 2018, 10, 31114-31123.	4.0	36
33	Near-Infrared Light-Responsively Controlled-Release Herbicide Using Biochar as a Photothermal Agent. ACS Sustainable Chemistry and Engineering, 2019, 7, 14924-14932.	3.2	36
34	Near infrared light-driven release of pesticide with magnetic collectability using gel-based nanocomposite. Chemical Engineering Journal, 2021, 411, 127881.	6.6	35
35	A unique technology to transform inorganic nanorods into nano-networks. Nanotechnology, 2009, 20, 255302.	1.3	34
36	A facile approach to fabricate self-cleaning paint. Applied Clay Science, 2016, 132-133, 290-295.	2.6	34

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37	Waste Carton-Derived Nanocomposites for Efficient Removal of Hexavalent Chromium. Langmuir, 2018, 34, 5955-5963.	1.6	34
38	Reduction of aqueous Crvi using nanoscale zero-valent iron dispersed by high energy electron beam irradiation. Nanoscale, 2013, 5, 9917.	2.8	33
39	Functional biochar fabricated from waste red mud and corn straw in China for acidic dye wastewater treatment. Journal of Cleaner Production, 2021, 320, 128887.	4.6	32
40	Micro-nanopores Fabricated by High-Energy Electron Beam Irradiation: Suitable Structure for Controlling Pesticide Loss. Journal of Agricultural and Food Chemistry, 2013, 61, 5215-5219.	2.4	31
41	Fabricating High-Performance <i>T</i> ₂ -Weighted Contrast Agents via Adjusting Composition and Size of Nanomagnetic Iron Oxide. ACS Applied Materials & Samp; Interfaces, 2018, 10, 7003-7011.	4.0	31
42	Fabrication of Fe3O4/ZIF-8 nanocomposite for simultaneous removal of copper and arsenic from water/soil/swine urine. Journal of Environmental Management, 2021, 290, 112626.	3.8	31
43	Promising Approach for Improving Adhesion Capacity of Foliar Nitrogen Fertilizer. ACS Sustainable Chemistry and Engineering, 2015, 3, 499-506.	3.2	30
44	Degradation of herbicide (glyphosate) using sunlight-sensitive MnO 2 /C catalyst immediately fabricated by high energy electron beam. Chemical Engineering Journal, 2016, 306, 693-703.	6.6	30
45	Nanostructure-enhanced water interaction to increase the dual-mode MR contrast performance of gadolinium-doped iron oxide nanoclusters. Chemical Engineering Journal, 2019, 360, 289-298.	6.6	30
46	CuO dot-decorated Cu@Gd ₂ O ₃ coreâ€"shell hierarchical structure for Cu(<scp>i</scp>) self-supplying chemodynamic therapy in combination with MRI-guided photothermal synergistic therapy. Materials Horizons, 2021, 8, 1017-1028.	6.4	30
47	Oxygen Vacancy Defect-Induced Activity Enhancement of Gd Doping Magnetic Nanocluster for Oxygen Supplying Cancer Theranostics. ACS Applied Materials & Interfaces, 2020, 12, 36917-36927.	4.0	29
48	Detection of di(2-ethylhexyl)phthalate through graphene $\hat{a} \in \hat{l}^2$ -cyclodextrin composites by electrochemical impedance spectroscopy. Analytical Methods, 2014, 6, 1736.	1.3	27
49	Controlling the Hydrolysis and Loss of Nitrogen Fertilizer (Urea) by using a Nanocomposite Favors Plant Growth. ChemSusChem, 2017, 10, 2068-2079.	3.6	26
50	A polyethyleneimine-driven self-assembled nanoplatform for fluorescence and MR dual-mode imaging guided cancer chemotherapy. Chemical Engineering Journal, 2018, 350, 69-78.	6.6	26
51	Fabrication of reusable temperature-controlled-released fertilizer using a palygorskite-based magnetic nanocomposite. Applied Clay Science, 2018, 161, 194-202.	2.6	25
52	In situ degradation of antibiotic residues in medical intravenous infusion bottles using high energy electron beam irradiation. Scientific Reports, 2017, 7, 39928.	1.6	23
53	Electrochemical Detection of Pb(II) by Glassy Carbon Electrode Modified with Amine-Functionalized Magnetite Nanoparticles. Analytical Letters, 2013, 46, 912-922.	1.0	22
54	Harmful algae blooms removal from fresh water with modified vermiculite. Environmental Technology (United Kingdom), 2014, 35, 340-346.	1,2	22

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55	A tailored nanosheet decorated with a metallized dendrimer for angiography and magnetic resonance imaging-guided combined chemotherapy. Nanoscale, 2018, 10, 488-498.	2.8	22
56	Electrical-Driven Release and Migration of Herbicide Using a Gel-Based Nanocomposite. Journal of Agricultural and Food Chemistry, 2020, 68, 1536-1545.	2.4	22
57	Picomolar thrombin detection by orchestration of triple signal amplification strategy with hierarchically porous Ti3C2Tx MXene electrode material-catalytic hairpin assembly reaction-metallic nanoprobes. Biosensors and Bioelectronics, 2022, 208, 114228.	5.3	20
58	Honeycomb-like magnetic cornstalk for Cr(VI) removal and ammonium release. Bioresource Technology, 2019, 291, 121856.	4.8	19
59	Inhibiting Sprouting and Decreasing α-Solanine Amount of Stored Potatoes Using Hydrophobic Nanosilica. ACS Sustainable Chemistry and Engineering, 2018, 6, 10517-10525.	3.2	18
60	Immobilizing Arsenic and Copper Ions in Manure Using a Nanocomposite. Journal of Agricultural and Food Chemistry, 2017, 65, 8999-9005.	2.4	17
61	Preparation of an amino functionalized Fe ₃ O ₄ /Gd ₂ O ₃ network composite and application in electrochemical detection of Cu ²⁺ . Analytical Methods, 2016, 8, 303-310.	1.3	15
62	A polyethylenimine functionalized porous/hollow nanoworm as a drug delivery system and a bioimaging agent. Physical Chemistry Chemical Physics, 2016, 18, 7820-7828.	1.3	14
63	Seasonal variation and gender pattern of phenolic and flavonoid contents in Pistacia chinensis Bunge inflorescences and leaves. Journal of Plant Physiology, 2016, 191, 36-44.	1.6	14
64	TiO ₂ /Biochar with Light-Switchable Wettability as a Herbicide Safener and Foliar Fertilizer Adhesive. ACS Sustainable Chemistry and Engineering, 2020, 8, 1121-1128.	3.2	14
65	A Multifunctional Magnetic Composite Material as a Drug Delivery System and a Magnetic Resonance Contrast Agent. Particle and Particle Systems Characterization, 2014, 31, 976-984.	1.2	13
66	Promoting desert biocrust formation using aquatic cyanobacteria with the aid of MOF-based nanocomposite. Science of the Total Environment, 2020, 708, 134824.	3.9	13
67	Magnetic Relaxation Switch Detecting Boric Acid or Borate Ester through One-Pot Synthesized Poly(vinyl alcohol) Functionalized Nanomagnetic Iron Oxide. ACS Applied Materials & Interfaces, 2015, 7, 16837-16841.	4.0	12
68	Reducing the pollution risk of pesticide using nano networks induced by irradiation and hydrothermal treatment. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2015, 50, 901-907.	0.7	12
69	Functionalized nanocomposite for simultaneous removal of antibiotics and As(<scp>iii</scp>) in swine urine aqueous solution and soil. Environmental Science: Nano, 2018, 5, 2978-2992.	2.2	12
70	Efficient photocatalysis of CrVI and methylene blue by dispersive palygorskite-loaded zero-valent iron/carbon nitride. Applied Clay Science, 2020, 198, 105817.	2.6	12
71	Nanostructures for pH-sensitive Drug Delivery and Magnetic Resonance Contrast Enhancement Systems. Current Medicinal Chemistry, 2018, 25, 3036-3057.	1.2	12
72	Hydrophobic nano sponge for efficient removal of diesel fuel from water and soil. Science of the Total Environment, 2019, 688, 1124-1136.	3.9	11

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73	High Performance Bacteria Anchored by Nanoclay to Boost Straw Degradation. Materials, 2019, 12, 1148.	1.3	11
74	Simultaneously removal of $Cr(VI)$ and $Cd(II)$ from water using a flower-like primary battery nanosystem. Science of the Total Environment, 2021, 765, 142735.	3.9	11
75	Alternating Magnetic Field-Responsive Nanoplatforms for Controlled Imidacloprid Release and Sustainable Pest Control. ACS Sustainable Chemistry and Engineering, 2021, 9, 10491-10502.	3.2	11
76	A combination of super-resolution fluorescence and magnetic resonance imaging using a Mn(<scp>ii</scp>) compound. Inorganic Chemistry Frontiers, 2019, 6, 2914-2920.	3.0	10
77	Fabrication of magnetic-responsive controlled-release herbicide by a palygorskite-based nanocomposite. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112115.	2.5	10
78	Reduction of Cr(VI) by Urea-Dispersed Nanoscale Zero-Valent Iron. Journal of Nanoscience and Nanotechnology, 2015, 15, 6103-6107.	0.9	9
79	Removal of anthracenemethanol from soil through a magnetic system assisted by ceramsite coated with nanoflower-structured carbon and preparation for its engineering application. Chemical Engineering Journal, 2017, 328, 748-758.	6.6	8
80	Inhibiting Desertification Using Aquatic Cyanobacteria Assisted by a Nanocomposite. ACS Sustainable Chemistry and Engineering, 2020, 8, 3477-3486.	3.2	8
81	Photocatalytic removal of hexavalent chromium by Fe doped g-C3N4 loaded with dispersed diatomite modified by electron beam bombardment. Journal of Cleaner Production, 2021, 315, 128219.	4.6	8
82	Facile and quantitative electrochemical detection of yeast cell apoptosis. Scientific Reports, 2014, 4, 4373.	1.6	7
83	Promoting Potato Seed Sprouting Using an Amphiphilic Nanocomposite. Journal of Agricultural and Food Chemistry, 2018, 66, 9657-9666.	2.4	7
84	A nanoselenium-coating biomimetic cytomembrane nanoplatform for mitochondrial targeted chemotherapy- and chemodynamic therapy through manganese and doxorubicin codelivery. Journal of Nanobiotechnology, 2021, 19, 227.	4.2	7
85	<scp>Chitosanâ€based</scp> organic/inorganic composite engineered for <scp>UV lightâ€controlled</scp> smart <scp>pHâ€responsive</scp> pesticide through <i>in situ</i> <scp>photoâ€induced</scp> generation of acid. Pest Management Science, 2022, 78, 2299-2308.	1.7	7
86	Phosphorylation triggered poly-nanoparticle assembly for naked-eye distinguishable T4 polynucleotide kinase detection. RSC Advances, 2014, 4, 56731-56735.	1.7	6
87	Functional terpyridyl iron complexes for in vivo photoacoustic imaging. Inorganic Chemistry Frontiers, 2020, 7, 2753-2758.	3.0	6
88	Atomically precise multi-domain GdxFe3â^'xO4 nanoclusters with modulated contrast properties for T2-weighted magnetic resonance imaging of early orthotopic cancer. Chemical Engineering Journal, 2022, 429, 132255.	6.6	6
89	Degradation of hexavalent chromium and methyl orange by the synergistic system of graphitic carbon nitride and electron beam irradiation. Chemosphere, 2022, 287, 132228.	4.2	6
90	Highly sensitive T 1–T 2 dual-mode MRI probe based on ultra-small gadolinium oxide-decorated iron oxide nanocrystals. Biomedical Materials (Bristol), 2021, 16, 044104.	1.7	5

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91	A sodium hyposulfite fuel cell for efficient Cr(VI) removal. Chemosphere, 2022, 294, 133803.	4.2	5
92	CdTe Quantum Dot/Bi ₂ WO ₆ Nanosheet Photocatalysts with a Giant Built-In Electric Field for Enhanced Removal of Persistent Organic Pollutants. ACS Applied Nano Materials, 2022, 5, 5128-5139.	2.4	5
93	Inducible Bcl-2 gene RNA interference mediated by aptamer-integrated HDV ribozyme switch. Integrative Biology (United Kingdom), 2017, 9, 619-626.	0.6	4
94	Rapid remediation of $Cd(II)$ -contaminated water using a magnetically collectable iron-based primary battery. Journal of Environmental Chemical Engineering, 2022, 10, 107191.	3.3	4
95	Probing the Migration of Free Radicals in Solid and Liquid Media via Cr(VI) Reduction by High-Energy Electron Beam Irradiation. Scientific Reports, 2018, 8, 15196.	1.6	3
96	Surface migration of Pb(II) from water and soil using an aerogel/graphite felt primary cell system. Chemosphere, 2022, 294, 133666.	4.2	3
97	A Biodegradable High-Efficiency Magnetic Nanoliposome Promotes Tumor Microenvironment-Responsive Multimodal Tumor Therapy Along with Switchable T ₂ Magnetic Resonance Imaging. ACS Applied Materials & Diterfaces, 2022, 14, 24160-24173.	4.0	3
98	Improving the combustion efficiency of diesel fuel and lowering PM2.5 using palygorskite-based nanocomposite and removing Cd2+ by the residue. Applied Clay Science, 2018, 162, 276-287.	2.6	2
99	Controlling Preharvest Sprouting of Wheat through Nanonetworks. ACS Sustainable Chemistry and Engineering, 2018, 6, 11050-11057.	3.2	2
100	Synergistic effect of cyanobacteria and nano-sand-stabilizer on biocrust formation and sand fixation. Journal of Environmental Chemical Engineering, 2021, 9, 104887.	3.3	2
101	Synthesis of Iron-Based Carbon Microspheres with Tobacco Waste Liquid and Waste Iron Residue for Cd(II) Removal from Water and Soil. Langmuir, 2022, 38, 5557-5567.	1.6	2
102	Oneâ€Step and Nondestructive Reduction of Cr(VI) in Pork by Highâ€Energy Electron Beam Irradiation. Journal of Food Science, 2018, 83, 1173-1178.	1.5	1
103	Tobacco Waste Liquid-Based Organic Fertilizer Particle for Controlled-Release Fulvic Acid and Immobilization of Heavy Metals in Soil. Nanomaterials, 2022, 12, 2056.	1.9	1
104	Remediation of Cd-contaminated acid soil with shell powder-based nanocomposite. Surfaces and Interfaces, 2022, 32, 102117.	1.5	1
105	Degradation of nitrobenzene by trisynergetic attapulgite-supported nanoscale zero-valent iron–biofilm. Research on Chemical Intermediates, 2018, 44, 6963-6977.	1.3	0