

Weitai Wu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8781862/publications.pdf>

Version: 2024-02-01

77
papers

3,662
citations

117453

34
h-index

133063

59
g-index

80
all docs

80
docs citations

80
times ranked

4218
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional Hybrid Nanogel for Integration of Optical Glucose Sensing and Self-Regulated Insulin Release at Physiological pH. ACS Nano, 2010, 4, 4831-4839.	7.3	267
2	Core-shell hybrid nanogels for integration of optical temperature-sensing, targeted tumor cell imaging, and combined chemo-photothermal treatment. Biomaterials, 2010, 31, 7555-7566.	5.7	213
3	Chitosan-based responsive hybrid nanogels for integration of optical pH-sensing, tumor cell imaging and controlled drug delivery. Biomaterials, 2010, 31, 8371-8381.	5.7	199
4	In-situ immobilization of quantum dots in polysaccharide-based nanogels for integration of optical pH-sensing, tumor cell imaging, and drug delivery. Biomaterials, 2010, 31, 3023-3031.	5.7	192
5	Smart Core-shell Hybrid Nanogels with Ag Nanoparticle Core for Cancer Cell Imaging and Gel Shell for pH-Regulated Drug Delivery. Chemistry of Materials, 2010, 22, 1966-1976.	3.2	163
6	Optical detection of glucose by CdS quantum dots immobilized in smart microgels. Chemical Communications, 2009, , 4390.	2.2	119
7	Glucose-Mediated Assembly of Phenylboronic Acid Modified CdTe/ZnTe/ZnS Quantum Dots for Intracellular Glucose Probing. Angewandte Chemie - International Edition, 2010, 49, 6554-6558.	7.2	118
8	Water-dispersible multifunctional hybrid nanogels for combined curcumin and photothermal therapy. Biomaterials, 2011, 32, 598-609.	5.7	115
9	Catalytic reduction of toxic dyes in the presence of silver nanoparticles impregnated core-shell composite microgels. Journal of Cleaner Production, 2019, 211, 855-864.	4.6	101
10	Specific glucose-to-SPR signal transduction at physiological pH by molecularly imprinted responsive hybrid microgels. Biomaterials, 2012, 33, 7115-7125.	5.7	100
11	Adsorptive removal of heavy metal ions using polystyrene-poly(N-isopropylmethacrylamide-acrylic) Tj ETQq1 1 0.784314 rgBT /Overlook 2019, 277, 522-531.	2.3	98
12	Multi-functional core-shell hybrid nanogels for pH-dependent magnetic manipulation, fluorescent pH-sensing, and drug delivery. Biomaterials, 2011, 32, 9876-9887.	5.7	96
13	Inorganic nanoparticles for reduction of hexavalent chromium: Physicochemical aspects. Journal of Hazardous Materials, 2021, 402, 123535.	6.5	95
14	A nanogel of on-site tunable pH-response for efficient anticancer drug delivery. Acta Biomaterialia, 2013, 9, 4546-4557.	4.1	92
15	Responsive Materials for Self-regulated Insulin Delivery. Macromolecular Bioscience, 2013, 13, 1464-1477.	2.1	73
16	Tunable Photoluminescence of Ag Nanocrystals in Multiple-Sensitive Hybrid Microgels. Chemistry of Materials, 2009, 21, 2851-2861.	3.2	70
17	Facile synthesis of silver nanoparticles in a crosslinked polymeric system by in situ reduction method for catalytic reduction of 4-nitroaniline. Environmental Technology (United Kingdom), 2019, 40, 2027-2036.	1.2	68
18	Construction of optical glucose nanobiosensor with high sensitivity and selectivity at physiological pH on the basis of organic-inorganic hybrid microgels. Biosensors and Bioelectronics, 2010, 25, 2603-2610.	5.3	62

#	ARTICLE	IF	CITATIONS
19	Hybrid micro-/nanogels for optical sensing and intracellular imaging. <i>Nano Reviews</i> , 2010, 1, 5730.	3.7	61
20	A Multifunctional Nanoplatform Based on Responsive Fluorescent Plasmonic ZnO@Au@PEG Hybrid Nanogels. <i>Advanced Functional Materials</i> , 2011, 21, 2830-2839.	7.8	61
21	One-pot synthesis of responsive catalytic Au@PVP hybrid nanogels. <i>Chemical Communications</i> , 2012, 48, 11751.	2.2	57
22	Construction of near-infrared photonic crystal glucose-sensing materials for ratiometric sensing of glucose in tears. <i>Biosensors and Bioelectronics</i> , 2013, 48, 94-99.	5.3	57
23	Engineering of Phenylboronic Acid Based Glucose-sensitive Microgels with 4-vinylpyridine for Working at Physiological pH and Temperature. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1510-1514.	1.1	52
24	Engineering oligo(ethylene glycol)-based thermosensitive microgels for drug delivery applications. <i>Polymer</i> , 2010, 51, 3926-3933.	1.8	50
25	Hybrid Microgels for Catalytic and Photocatalytic Removal of Nitroarenes and Organic Dyes From Aqueous Medium: A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2020, 50, 513-537.	1.8	48
26	Advancement in Multi-Functional Poly(styrene)-Poly(N-isopropylacrylamide) Based Core-Shell Microgels and their Applications. <i>Polymer Reviews</i> , 2018, 58, 288-325.	5.3	47
27	Silver Nanoparticles Engineered Polystyrene-Poly(N-isopropylmethacrylamide-co-acrylic acid) Core Shell Hybrid Polymer Microgels for Catalytic Reduction of Congo Red. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800211.	1.1	47
28	Graphene@Poly(phenylboronic acid)s Microgels with Selectively Glucose-Responsive Volume Phase Transition Behavior at a Physiological pH. <i>Macromolecules</i> , 2014, 47, 6055-6066.	2.2	46
29	Responsive Au@polymer hybrid microgels for the simultaneous modulation and monitoring of Au-catalyzed chemical reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9514.	5.2	46
30	Synthesis and characterization of poly(N-isopropylmethacrylamide-co-acrylic acid) microgels for in situ fabrication and stabilization of silver nanoparticles for catalytic reduction of o-nitroaniline in aqueous medium. <i>Reactive and Functional Polymers</i> , 2018, 132, 89-97.	2.0	44
31	Synthesis and volume phase transition of concanavalin A-based glucose-responsive nanogels. <i>Polymer Chemistry</i> , 2014, 5, 186-194.	1.9	43
32	A Fluorescent Responsive Hybrid Nanogel for Closed-Loop Control of Glucose. <i>Journal of Diabetes Science and Technology</i> , 2012, 6, 892-901.	1.3	39
33	Phenylboronic acid modified silver nanoparticles for colorimetric dynamic analysis of glucose. <i>Biosensors and Bioelectronics</i> , 2014, 52, 188-195.	5.3	39
34	Immobilization of sulfur in microgels for lithium-sulfur battery. <i>Chemical Communications</i> , 2016, 52, 4525-4528.	2.2	36
35	Polymer microgels for the stabilization of gold nanoparticles and their application in the catalytic reduction of nitroarenes in aqueous media. <i>RSC Advances</i> , 2022, 12, 5105-5117.	1.7	35
36	Engineering of responsive polymer based nano-reactors for facile mass transport and enhanced catalytic degradation of 4-nitrophenol. <i>Journal of Environmental Sciences</i> , 2018, 72, 43-52.	3.2	34

#	ARTICLE	IF	CITATIONS
37	Enhanced catalysis of gold nanoparticles in microgels upon on site altering the gold-polymer interface interaction. <i>Journal of Catalysis</i> , 2019, 369, 462-468.	3.1	33
38	Optically pH and H ₂ O ₂ Dual Responsive Composite Colloids through the Directed Assembly of Organic Dyes on Responsive Microgels. <i>Chemistry of Materials</i> , 2009, 21, 4905-4913.	3.2	27
39	Synthesis and characterization of poly(N-isopropylmethacrylamide-acrylic acid) smart polymer microgels for adsorptive extraction of copper(II) and cobalt(II) from aqueous medium: kinetic and thermodynamic aspects. <i>Environmental Science and Pollution Research</i> , 2020, 27, 28169-28182.	2.7	26
40	Tailoring the glucose-responsive volume phase transition behaviour of Ag@poly(phenylboronic acid) hybrid microgels: from monotonous swelling to monotonous shrinking upon adding glucose at physiological pH. <i>Polymer Chemistry</i> , 2014, 5, 2352.	1.9	25
41	Photothermal Möbius aromatic metallapentalenofuran and its NIR-responsive copolymer. <i>Polymer Chemistry</i> , 2018, 9, 2092-2100.	1.9	25
42	Stabilization of silver nanoparticles in crosslinked polymer colloids through chelation for catalytic degradation of p-nitroaniline in aqueous medium. <i>Chemical Physics Letters</i> , 2021, 763, 138263.	1.2	25
43	Glucose-responsive microgels based on apo-enzyme recognition. <i>Polymer Chemistry</i> , 2016, 7, 2847-2857.	1.9	23
44	A fluorescent double-network-structured hybrid nanogel as embeddable nanoglucometer for intracellular glucometry. <i>Biomaterials Science</i> , 2013, 1, 421.	2.6	22
45	Synthesis and Characterization of pH-Responsive Organic-Inorganic Hybrid Material with Excellent Catalytic Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1872-1884.	1.9	22
46	Cylindrical NIR-Responsive Metallopolymer Containing Möbius Metalla-aromatics. <i>ACS Macro Letters</i> , 2018, 7, 1034-1038.	2.3	22
47	Zero valent iron nanoparticles as sustainable nanocatalysts for reduction reactions. <i>Catalysis Reviews - Science and Engineering</i> , 2022, 64, 286-355.	5.7	20
48	Core-shell microgel stabilized silver nanoparticles for catalytic reduction of aryl nitro compounds. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5742.	1.7	20
49	Fundamentals and applications of acrylamide based microgels and their hybrids: a review. <i>RSC Advances</i> , 2019, 9, 13838-13854.	1.7	19
50	A colloidal supra-structure of responsive microgels as a potential cell scaffold. <i>Soft Matter</i> , 2012, 8, 12034.	1.2	17
51	Synthesis and characterization of responsive poly(anionic liquid) microgels. <i>Polymer Chemistry</i> , 2016, 7, 5463-5473.	1.9	17
52	Systematic study of catalytic degradation of nitrobenzene derivatives using core@shell composite micro particles as catalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 594, 124646.	2.3	17
53	Glucose-mediated catalysis of Au nanoparticles in microgels. <i>Chemical Communications</i> , 2015, 51, 16068-16071.	2.2	15
54	Synthesis and characterization of CO ₂ -sensitive temperature-responsive catalytic poly(ionic liquid) microgels. <i>Polymer Chemistry</i> , 2018, 9, 2887-2896.	1.9	15

#	ARTICLE	IF	CITATIONS
55	Silver nanoparticles supported on smart polymer microgel system for highly proficient catalytic reduction of Cr ⁺⁶ to Cr ⁺³ with formic acid. Applied Organometallic Chemistry, 2021, 35, e6405.	1.7	15
56	Switchable glucose-responsive volume phase transition behavior of poly(phenylboronic acid) microgels. Polymer Chemistry, 2015, 6, 8306-8318.	1.9	14
57	Synthesis and characterization of ureido-derivatized UCST-type poly(ionic liquid) microgels. Polymer Chemistry, 2018, 9, 1439-1447.	1.9	12
58	Conjugated polymers based on metalla-aromatic building blocks. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	12
59	Copper on responsive polymer microgels: a recyclable catalyst exhibiting tunable catalytic activity. Chemical Communications, 2014, 50, 14217-14220.	2.2	11
60	Synthesis and Characterization of Dextran-Tyramine-Based H ₂ O ₂ -Sensitive Microgels. Macromolecules, 2014, 47, 6067-6076.	2.2	11
61	Bioinspired synthesis of poly(phenylboronic acid) microgels with high glucose selectivity at physiological pH. Polymer Chemistry, 2016, 7, 6500-6512.	1.9	10
62	Flexible Prussian Blue-Au Fibers as Robust Peroxidase-Like Nanozymes for Wearable Hydrogen Peroxide and Uric Acid Monitoring. Electroanalysis, 2022, 34, 1763-1771.	1.5	10
63	Observation of Unusual Thermoresponsive Volume Phase Transition Behavior of Cubic Poly(<i>N</i> -isopropylacrylamide) Microgels. ACS Macro Letters, 2020, 9, 266-271.	2.3	9
64	Electrochemical synthesis of polymer microgels. Polymer Chemistry, 2015, 6, 3979-3987.	1.9	8
65	One-pot aqueous synthesis of sub-10 nm responsive nanogels. Chemical Communications, 2013, 49, 6534.	2.2	7
66	Highly efficient solid polymer electrolytes using ion containing polymer microgels. Polymer Chemistry, 2015, 6, 1052-1055.	1.9	7
67	Assembly of polythiophenes on responsive polymer microgels for the highly selective detection of ammonia gas. Polymer Chemistry, 2016, 7, 3179-3188.	1.9	7
68	Enhanced enzymatic hydrolysis of cellulose in microgels. Chemical Communications, 2015, 51, 10502-10505.	2.2	6
69	Salt-Enhanced CO ₂ -Responsiveness of Microgels. ACS Macro Letters, 2020, 9, 1611-1616.	2.3	6
70	Reversible Regulating the Substrate Specificity of Enzymes in Microgels by a Phase Transition in Polymer Networks. ACS Macro Letters, 2022, 11, 26-32.	2.3	6
71	Preparation of highly branched polyolefins by controlled chain-walking olefin polymerization. Applied Organometallic Chemistry, 2022, 36, .	1.7	6
72	Synthesis and characterization of ammonia-responsive polymer microgels. Polymer Chemistry, 2015, 6, 8331-8342.	1.9	5

#	ARTICLE	IF	CITATIONS
73	Light-mediated CO ₂ -responsiveness of metallopolymer microgels. Chinese Chemical Letters, 2022, 33, 1445-1449.	4.8	4
74	Physicochemical aspects of inorganic nanoparticles stabilized in <i>N</i> -vinyl caprolactam based microgels for various applications. RSC Advances, 2021, 11, 978-995.	1.7	4
75	Synthesis of polymer macrogels with rapid and significant response to glucose concentration changes. RSC Advances, 2017, 7, 55945-55956.	1.7	3
76	One-pot HTST synthesis of responsive fluorescent ZnO@apo-enzyme composite microgels for intracellular glucometry. RSC Advances, 2020, 10, 26566-26578.	1.7	2
77	Tuning catalysis of boronic acids in microgels by in situ reversible structural variations. RSC Advances, 2020, 10, 3734-3744.	1.7	0