Lei Wang

List of Publications by Year in Descending Order

113 papers	5,799 citations	31 h-index	75 g-index
127 ext. papers	6,656 ext. citations	7.4 avg, IF	5.82 L-index

#	Paper	IF	Citations
113	Polyoxometalate Modified by Zeolite Imidazole Framework for the pH-Responsive Electrodynamic/Chemodynamic Therapy.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	6
112	Lipid nanotubes: Formation and applications.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 212, 112362	6	
111	Colonization characteristics of pioneer surface-associated eukaryotes during natural biofilm formation on PDMS-based composites via 18S rRNA gene sequencing methods. *International Biodeterioration and Biodegradation*, **2022**, 166, 105341	4.8	
110	Programmable spatial organization of liquid-phase condensations. *CheM*, **2022**, 8, 784-800	16.2	1
109	Hierarchical Structures in Macromolecule-assembled Synthetic Cells.. *Macromolecular Rapid Communications*, **2022**, e2100926	4.8	0
108	Highly Sensitive Humidity Sensors Based on Pt Functionalized ZIF-67 Towards Noncontact Healthcare Monitoring. *IEEE Sensors Journal*, **2021**, 21, 25616-25623	4	0
107	Influence of Luminescent Nanomaterials on Plant Growth and Development. *ChemNanoMat*, **2021**, 7, 859-872	3.5	5
106	Membranization of Coacervates into Artificial Phagocytes with Predation toward Bacteria. *ACS Nano*, **2021**, 15, 10048-10057	16.7	8
105	R□ktitelbild: Construction of Hybrid Bi-microcompartments with Exocytosis-Inspired Behavior toward Fast Temperature-Modulated Transportation of Living Organisms (Angew. Chem. 38/2021). *Angewandte Chemie*, **2021**, 133, 21240-21240	3.6	
104	Deciphering Single-Bacterium Adhesion Behavior Modulated by Extracellular Electron Transfer. *Nano Letters*, **2021**, 21, 5105-5115	11.5	0
103	Construction of Hybrid Bi-microcompartments with Exocytosis-Inspired Behavior toward Fast Temperature-Modulated Transportation of Living Organisms. *Angewandte Chemie - International Edition*, **2021**, 60, 20795-20802	16.4	5
102	Construction of Hybrid Bi-microcompartments with Exocytosis-Inspired Behavior toward Fast Temperature-Modulated Transportation of Living Organisms. *Angewandte Chemie*, **2021**, 133, 20963-20970	3.6	
101	Target properties optimization on capacitive-type humidity sensor: Ingredients hybrid and integrated passive devices fabrication. *Sensors and Actuators B: Chemical*, **2021**, 340, 129883	8.5	2
100	A pH Self-Monitoring Heterogeneous Multicompartmental Proteinosome with Spatiotemporal Regulation of Insulin Transportation. *Chinese Journal of Chemistry*, **2021**, 39, 3386	4.9	1
99	A review of multiple Pickering emulsions: Solid stabilization, preparation, particle effect, and application. *Chemical Engineering Science*, **2021**, 248, 117085	4.4	6
98	Fusion-Induced Structural and Functional Evolution in Binary Emulsion Communities. *Angewandte Chemie*, **2020**, 132, 17101-17108	3.6	3
97	Fusion-Induced Structural and Functional Evolution in Binary Emulsion Communities. *Angewandte Chemie - International Edition*, **2020**, 59, 16953-16960	16.4	13

96	Carbon dots-fed Shewanella oneidensis MR-1 for bioelectricity enhancement. *Nature Communications*, **2020**, 11, 1379	17.4	38
95	Biomimicry of Cellular Motility and Communication Based on Synthetic Soft-Architectures. *Small*, **2020**, 16, e1907680	11	31
94	Synthesis of bifunctional carbon quantum dots for bioimaging and anti-inflammation. *Nanotechnology*, **2020**, 31, 175102	3.4	20
93	Photosynthetic hydrogen production by droplet-based microbial micro-reactors under aerobic conditions. *Nature Communications*, **2020**, 11, 5985	17.4	13
92	Ultrafast Detection and Discrimination of Methanol Gas Using a Polyindole-Embedded Substrate Integrated Waveguide Microwave Sensor. *ACS Sensors*, **2020**, 5, 3939-3948	9.2	8
91	Enzyme Conformation Influences the Performance of Lipase-powered Nanomotors. *Angewandte Chemie*, **2020**, 132, 21266-21273	3.6	3
90	New protein-based smart materials **2020**, 415-436		0
89	Enzyme Conformation Influences the Performance of Lipase-powered Nanomotors. *Angewandte Chemie - International Edition*, **2020**, 59, 21080-21087	16.4	20
88	Polymer-chlorella cells conjugating with aggregation-induced functionality switch towards hydrogen evolution. *Science China Technological Sciences*, **2020**, 63, 1416-1425	3.5	4
87	Near-Infrared-Induced Contractile Proteinosome Microreactor with a Fast Control on Enzymatic Reactions. *ACS Applied Materials & Interfaces*, **2020**, 12, 41079-41087	9.5	9
86	Combinatorial discovery of Mo-based polyoxometalate clusters for tumor photothermal therapy and normal cell protection. *Biomaterials Science*, **2020**, 8, 6017-6024	7.4	6
85	Design and analysis of ultrafast and high-sensitivity microwave transduction humidity sensor based on belt-shaped MoO3 nanomaterial. *Sensors and Actuators B: Chemical*, **2020**, 304, 127138	8.5	24
84	High-throughput sequencing analysis of marine pioneer surface-biofilm bacteria communities on different PDMS-based coatings. *Colloids and Surfaces B: Biointerfaces*, **2020**, 185, 110538	6	2
83	Engineering proteinosomes with renewable predatory behaviour towards living organisms. *Materials Horizons*, **2020**, 7, 157-163	14.4	27
82	Dynamic Behaviour in Microcompartments. *Chemistry - A European Journal*, **2019**, 25, 16440	4.8	6
81	Differential Colonization Dynamics of Marine Biofilm-Forming Eukaryotic Microbes on Different Protective Coating Materials. *Polymers*, **2019**, 11,	4.5	5
80	Lipase-Powered Mesoporous Silica Nanomotors for Triglyceride Degradation. *Angewandte Chemie*, **2019**, 131, 8076-8080	3.6	15
79	Lipase-Powered Mesoporous Silica Nanomotors for Triglyceride Degradation. *Angewandte Chemie - International Edition*, **2019**, 58, 7992-7996	16.4	47

78	Reconfigurable magnetic microrobot swarm: Multimode transformation, locomotion, and manipulation. *Science Robotics*, **2019**, 4,	18.6	252
77	R□ktitelbild: Autonomic Behaviors in Lipase-Active Oil Droplets (Angew. Chem. 4/2019). *Angewandte Chemie*, **2019**, 131, 1232-1232	3.6	
76	Enzyme-Modulated Anaerobic Encapsulation of Chlorella Cells Allows Switching from O2 to H2 Production. *Angewandte Chemie*, **2019**, 131, 4032-4035	3.6	5
75	Interfacial self-assembly of gold nanoparticle-polymer nanoconjugates into microcapsules with near-infrared light modulated biphasic catalysis efficiency. *Chemical Communications*, **2019**, 55, 10760-10763	5.8	9
74	Self-assembly of colloids based on microfluidics. *Nanoscale*, **2019**, 11, 16708-16722	7.7	13
73	Synthesis and Applications of Red-Emissive Carbon Dots. *Chemical Record*, **2019**, 19, 2083-2094	6.6	36
72	Autonomic Behaviors in Lipase-Active Oil Droplets. *Angewandte Chemie - International Edition*, **2019**, 58, 1067-1071	16.4	30
71	Enzyme-Modulated Anaerobic Encapsulation of Chlorella Cells Allows Switching from O to H Production. *Angewandte Chemie - International Edition*, **2019**, 58, 3992-3995	16.4	26
70	Autonomic Behaviors in Lipase-Active Oil Droplets. *Angewandte Chemie*, **2019**, 131, 1079-1083	3.6	17
69	A facile approach for the reduction of 4-nitrophenol and degradation of congo red using gold nanoparticles or laccase decorated hybrid inorganic nanoparticles/polymer-biomacromolecules vesicles. *Materials Science and Engineering C*, **2019**, 94, 524-533	8.3	39
68	Controlled Shape Transformation and Loading Release of Smart Hemispherical Hybrid Microgels Triggered by Inner Engines *ChemistrySelect*, **2018**, 3, 4067-4074	1.8	1
67	3D self-supported hierarchical core/shell structured MnCo2O4@CoS arrays for high-energy supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 1822-1831	13	108
66	Design and Construction of Hybrid Microcapsules with Higher-Order Structure and Multiple Functions. *Advanced Science*, **2018**, 5, 1700460	13.6	17
65	In Situ Self-Assembly of Coacervate Microdroplets into Viable Artificial Cell Wall with Heritability. *Advanced Functional Materials*, **2018**, 28, 1705699	15.6	18
64	Dynamic Covalent Silica Nanoparticles for pH-Switchable Pickering Emulsions. *Langmuir*, **2018**, 34, 5798-5806	4	29
63	A comparative study on the impact of the carbon nanotubes-modified polydimethylsiloxane nanocomposites on the colonization dynamics of the pioneer biofilm communities. *International Biodeterioration and Biodegradation*, **2018**, 129, 195-201	4.8	9
62	Effect of CNT/PDMS Nanocomposites on the Dynamics of Pioneer Bacterial Communities in the Natural Biofilms of Seawater. *Materials*, **2018**, 11,	3.5	9
61	Signal-On Electrochemiluminescence of Self-Ordered Molybdenum Oxynitride Nanotube Arrays for Label-Free Cytosensing. *Analytical Chemistry*, **2018**, 90, 10858-10864	7.8	19

60	High-Performance porous MIM-type capacitive humidity sensor realized via inductive coupled plasma and reactive-Ion etching. *Sensors and Actuators B: Chemical*, **2018**, 258, 704-714	8.5	38
59	Bioinspired Dual-Enzyme Colloidosome Reactors for High-Performance Biphasic Catalysis. *ACS Applied Materials & Interfaces*, **2018**, 10, 41504-41511	9.5	13
58	High-sensitivity radio frequency noncontact sensing and accurate quantification of uric acid in temperature-variant aqueous solutions. *Applied Physics Express*, **2018**, 11, 117001	2.4	13
57	Single-Cell Nanometric Coating Towards Whole-Cell-Based Biodevices and Biosensors. *ChemistrySelect*, **2018**, 3, 7208-7221	1.8	9
56	Coordinated Membrane Fusion of Proteinosomes by Contact-Induced Hydrogel Self-Healing. *Small*, **2017**, 13, 1700467	11	27
55	Efficient Way to Generate Protein-Based Nanoparticles by in-Situ Photoinitiated Polymerization-Induced Self-Assembly. *ACS Macro Letters*, **2017**, 6, 689-694	6.6	39
54	In Situ Gelation-Induced Death of Cancer Cells Based on Proteinosomes. *Biomacromolecules*, **2017**, 18, 2446-2453	6.9	15
53	Construction of biological hybrid microcapsules with defined permeability towards programmed release of biomacromolecules. *Chemical Communications*, **2017**, 53, 11678-11681	5.8	17
52	Construction of polymer coated core□shell magnetic mesoporous silica nanoparticles with triple responsive drug delivery. *Polymer Chemistry*, **2017**, 8, 5852-5864	4.9	55
51	A Facile, Nonreactive Hydrogen Peroxide (HO) Detection Method Enabled by Ion Chromatography with UV Detector. *Analytical Chemistry*, **2017**, 89, 11537-11544	7.8	74
50	In Situ Generation of Core-Shell Protein-Based Microcapsules with Regulated Ion Absorbance Capacity. *ChemistrySelect*, **2017**, 2, 6249-6253	1.8	4
49	Engineering DNA-based capsule used as a platform for carrying various molecules. *Journal of Controlled Release*, **2017**, 259, e36	11.7	2
48	Single-step fabrication of multi-compartmentalized biphasic proteinosomes. *Chemical Communications*, **2017**, 53, 8537-8540	5.8	18
47	Microbubbles for Tumor Targeting Theranostics **2016**, 277-297		
46	Bio-inspired engineering proteinosomes with a cell-wall-like protective shell by self-assembly of a metal-chelated complex. *Chemical Communications*, **2016**, 52, 13803-13806	5.8	21
45	Light-triggered generation of multifunctional gas-filled capsules on-demand. *Journal of Materials Chemistry C*, **2016**, 4, 652-658	7.1	5
44	Formation of hybrid core□shell microgels induced by autonomous unidirectional migration of nanoparticles. *Materials Horizons*, **2016**, 3, 78-82	14.4	14
43	Polyacrylate emulsion containing IBOMA for removable pressure sensitive adhesives. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	7

42	CdS-modified porous foam nickel for label-free highly efficient detection of cancer cells. *RSC Advances*, **2016**, 6, 32874-32880	3.7	3
41	Programmable Modulation of Membrane Permeability of Proteinosome upon Multiple Stimuli Responses. *ACS Macro Letters*, **2016**, 5, 961-966	6.6	15
40	A novel electrochemiluminescent immunosensor based on CdS-coated ZnO nanorod arrays for HepG2 cell detection. *Nanoscale*, **2015**, 7, 3627-33	7.7	44
39	A novel porous adhesion material with ink absorbency for digital inkjet printing. *RSC Advances*, **2015**, 5, 36288-36294	3.7	4
38	Preparation and properties of aligned graphene composites. *RSC Advances*, **2015**, 5, 31670-31676	3.7	16
37	Preparation and properties of polyurethane-modified epoxy cured in different simulated gravity environments. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	6
36	Acid-Disintegratable Polymersomes of pH-Responsive Amphiphilic Diblock Copolymers for Intracellular Drug Delivery. *Macromolecules*, **2015**, 48, 7262-7272	5.5	97
35	Self-assembly via microfluidics. *Lab on A Chip*, **2015**, 15, 4383-6	7.2	22
34	Photosynthetic Proteins in Supported Lipid Bilayers: Towards a Biokleptic Approach for Energy Capture. *Small*, **2015**, 11, 3306-18	11	7
33	A Highly Efficient ZrO2 Nanoparticle Based Electrochemical Sensor for the Detection of Organophosphorus Pesticides. *Chinese Journal of Chemistry*, **2015**, 33, 1135-1139	4.9	27
32	Continuous Microfluidic Self-Assembly of Hybrid Janus-Like Vesicular Motors: Autonomous Propulsion and Controlled Release. *Small*, **2015**, 11, 3762-7	11	58
31	Morphology-controlled synthesis of Ag nanoparticle decorated poly(o-phenylenediamine) using microfluidics and its application for hydrogen peroxide detection. *Chemical Engineering Journal*, **2015**, 268, 102-108	14.7	31
30	Micromixing enhancement in a novel passive mixer with symmetrical cylindrical grooves. *Asia-Pacific Journal of Chemical Engineering*, **2015**, 10, 201-209	1.3	6
29	Electrically tunable terahertz wave modulator based on complementary metamaterial and graphene. *Journal of Applied Physics*, **2014**, 115, 17B903	2.5	24
28	Interactions of the baicalin and baicalein with bilayer lipid membranes investigated by cyclic voltammetry and UV-Vis spectroscopy. *Bioelectrochemistry*, **2014**, 95, 29-33	5.6	26
27	Synthesis and properties of soap-free P(2-EHA-BA) emulsion for removable pressure sensitive adhesives. *RSC Advances*, **2014**, 4, 47708-47713	3.7	12
26	Lipid nanotube formation using space-regulated electric field above interdigitated electrodes. *ACS Nano*, **2014**, 8, 3961-9	16.7	35
25	Mixing enhancement of a passive microfluidic mixer containing triangle baffles. *Asia-Pacific Journal of Chemical Engineering*, **2014**, 9, 877-885	1.3	31

24	A novel quantum dot nanocluster as versatile probe for electrochemiluminescence and electrochemical assays of DNA and cancer cells. *Biosensors and Bioelectronics*, **2014**, 52, 69-75	11.8	57
23	Hydrodynamically Driven Self-Assembly of Giant Vesicles of Metal Nanoparticles for Remote-Controlled Release. *Angewandte Chemie*, **2013**, 125, 2523-2528	3.6	16
22	Electrochemiluminescent TiO/CdS nanocomposites for efficient immunosensing of HepG2 cells. *Journal of Materials Chemistry B*, **2013**, 1, 5021-5027	7.3	25
21	Vesicular self-assembly of colloidal amphiphiles in microfluidics. *ACS Applied Materials & Interfaces*, **2013**, 5, 9746-51	9.5	42
20	Highly photoluminescent carbon dots for multicolor patterning, sensors, and bioimaging. *Angewandte Chemie - International Edition*, **2013**, 52, 3953-7	16.4	2400
19	Lipid bilayer membrane arrays: fabrication and applications. *Advances in Biochemical Engineering/Biotechnology*, **2013**, 131, 121-52	1.7	1
18	Electroformation of giant unilamellar vesicles using interdigitated ITO electrodes. *Journal of Materials Chemistry A*, **2013**, 1, 7125	13	53
17	Forming lipid bilayer membrane arrays on micropatterned polyelectrolyte film surfaces. *Chemistry - A European Journal*, **2013**, 19, 9059-63	4.8	10
16	Hydrodynamically driven self-assembly of giant vesicles of metal nanoparticles for remote-controlled release. *Angewandte Chemie - International Edition*, **2013**, 52, 2463-8	16.4	103
15	MIGRATION OF CHARGED SPECIES IN LIPID BILAYER MEMBRANES UNDER AN ELECTRIC FIELD. *Nano*, **2013**, 08, 1230006	1.1	
14	Mixing enhancement of novel passive microfluidic mixers with cylindrical grooves. *Chemical Engineering Science*, **2012**, 81, 157-163	4.4	47
13	One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H2O2, and glucose sensing. *RSC Advances*, **2012**, 2, 538-545	3.7	250
12	Fabrication of Chemical Gradient Using Space Limited Plasma Oxidation and its Application for Droplet Motion. *Advanced Functional Materials*, **2012**, 22, 4533-4538	15.6	29
11	Preparation of Ag nanoparticle-decorated poly(m-phenylenediamine) microparticles and their application for hydrogen peroxide detection. *Analyst, The*, **2011**, 136, 1806-9	5	81
10	Ag@poly(m-phenylenediamine) core-shell nanoparticles for highly selective, multiplex nucleic acid detection. *Langmuir*, **2011**, 27, 2170-5	4	92
9	Aniline as a dispersing and stabilizing agent for reduced graphene oxide and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. *Journal of Colloid and Interface Science*, **2011**, 363, 615-9	9.3	101
8	Versatile electrochemiluminescence assays for cancer cells based on dendrimer/CdSe-ZnS-quantum dot nanoclusters. *Analytical Chemistry*, **2011**, 83, 3873-80	7.8	177
7	Magnetic electrochemiluminescent Fe3O4/CdSe-CdS nanoparticle/polyelectrolyte nanocomposite for highly efficient immunosensing of a cancer biomarker. *Chemistry - A European Journal*, **2011**, 17, 641-8	4.8	79

6	Formation of lipid bilayer microarrays on photo-oxidized polystyrene surfaces. *Chemistry - A European Journal*, **2011**, 17, 14741-4	4.8	9
5	Stable Aqueous Dispersion of Graphene Nanosheets: Noncovalent Functionalization by a Polymeric Reducing Agent and Their Subsequent Decoration with Ag Nanoparticles for Enzymeless Hydrogen Peroxide Detection. *Macromolecules*, **2010**, 43, 10078-10083	5.5	345
4	Electrochemiluminescence immunosensor based on nanocomposite film of CdS quantum dots-carbon nanotubes combined with gold nanoparticles-chitosan. *Electrochemistry Communications*, **2010**, 12, 22-26	5.1	74
3	Self-propelled micro/nanomotors for removal of insoluble water contaminants: microplastics and oil spills		4
2	Biosensor Based on Chitosan Nanocomposite277-307		
1	Chitosan: Drug Release and Bone Tissue Engineering1722-1734		