

Wang Yilin

List of Publications by Year in descending order

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114
papers

3,405
citations

159585

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116
all docs

116
docs citations

116
times ranked

4397
citing authors

#	ARTICLE	IF	CITATIONS
1	Pearling and helical nanostructures of model protocell membranes. <i>Nano Research</i> , 2022, 15, 659.	10.4	2
2	Colorimetric Detection of Glucose Using WO ₃ Nanosheets as Peroxidase-mimetic Enzyme. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 985-990.	2.6	4
3	Strong Hydration Ability of Silk Fibroin Suppresses Formation and Recrystallization of Ice Crystals During Cryopreservation. <i>Biomacromolecules</i> , 2022, 23, 478-486.	5.4	12
4	Assembly of Hexagonal Column Interpenetrated Spheres from Plant Polyphenol/Cationic Surfactants and Their Application as Antimicrobial Molecular Banks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	18
5	Condensed Supramolecular Helices: The Twisted Sisters of DNA. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
6	Peptide Self-assembly into stable Capsid-Like nanospheres and Co-assembly with DNA to produce smart artificial viruses. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 395-407.	9.4	9
7	Modulating the Excited State Chirality of Dynamic Chemical Reactions in Chiral Micelles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	26
8	Modulating the Excited State Chirality of Dynamic Chemical Reactions in Chiral Micelles. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
9	Condensed Supramolecular Helices: The Twisted Sisters of DNA. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	13
10	A double signal optical probe composed of carbon quantum dots and Au@Ag nanoparticles grown in situ for the high sensitivity detection of ellagic acid. <i>Journal of Molecular Liquids</i> , 2021, 323, 114594.	4.9	6
11	In Situ Synthesis of Photoactive Polymers on a Living Cell Surface via Bio-Palladium Catalysis for Modulating Biological Functions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5759-5765.	13.8	49
12	Control the Entire Journey of Pesticide Application on Superhydrophobic Plant Surface by Dynamic Covalent Trimeric Surfactant Coacervation. <i>Advanced Functional Materials</i> , 2021, 31, 2006606.	14.9	83
13	In Situ Synthesis of Photoactive Polymers on a Living Cell Surface via Bio-Palladium Catalysis for Modulating Biological Functions. <i>Angewandte Chemie</i> , 2021, 133, 5823-5829.	2.0	7
14	Pharmacokinetics and tissue distribution study of 15 ingredients of <i>Polygonum chinense</i> Linn extract in rats by UHPLC-MS/MS. <i>Biomedical Chromatography</i> , 2021, 35, e4975.	1.7	5
15	Determination of glucose by using MoS ₂ nanosheets as a peroxidase mimetic enzyme. <i>New Journal of Chemistry</i> , 2021, 45, 18048-18053.	2.8	4
16	A Multiresponsive Transformation between Surfactant-Based Coacervates and Vesicles. <i>CCS Chemistry</i> , 2021, 3, 358-366.	7.8	23
17	Enzyme-free colorimetric determination of uric acid based on inhibition of gold nanorods etching. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129638.	7.8	22
18	Trimeric Cationic Surfactant Coacervation as a Versatile Approach for Removing Organic Pollutants. <i>Langmuir</i> , 2021, 37, 5993-6001.	3.5	10

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19	Dual-signal uric acid sensing based on carbon quantum dots and o-phenylenediamine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 254, 119678.	3.9	21
20	Colorimetric determination of sarcosine in human urine with enzyme-like reaction mediated Au nanorods etching. <i>Microchemical Journal</i> , 2021, 165, 106120.	4.5	11
21	Quantitative insights into tightly and loosely bound water in hydration shells of amino acids. <i>Soft Matter</i> , 2021, 17, 10080-10089.	2.7	4
22	An ultra high performance liquid chromatography with tandem mass spectrometry method for simultaneous determination of thirteen components extracted from <i>Radix Puerariae</i> in rat plasma and tissues: Application to pharmacokinetic and tissue distribution study. <i>Journal of Separation Science</i> , 2020, 43, 418-437.	2.5	13
23	Supramolecular Nanofibers for Encapsulation and In Situ Differentiation of Neural Stem Cells. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901295.	7.6	12
24	A fluorescein-gold nanoparticles probe based on inner filter effect and aggregation for sensing of biothiols. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 210, 111986.	3.8	9
25	Partition and Solubilization of Phospholipid Vesicles by Noncovalently Constructed Oligomeric-like Surfactants. <i>Langmuir</i> , 2020, 36, 8733-8744.	3.5	4
26	Impact Behaviors on Superhydrophobic Surfaces for Water Droplets of Asymmetric Double-Chain Quaternary Ammonium Surfactants. <i>Langmuir</i> , 2020, 36, 14113-14122.	3.5	8
27	High sensitivity detection of H ₂ O ₂ and glucose based on carbon quantum dots-catalyzed 3, 3', 5, 5'-tetramethylbenzidine oxidation. <i>Microchemical Journal</i> , 2020, 159, 105365.	4.5	17
28	Efficient spreading and controllable penetration of high-speed drops on superhydrophobic surface by vesicles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17392-17398.	10.3	32
29	Effects of Hyaluronan Molecular Weight on the Lubrication of Cartilage-Emulating Boundary Layers. <i>Biomacromolecules</i> , 2020, 21, 4345-4354.	5.4	30
30	Hydration Shell Changes in Surfactant Aggregate Transitions Revealed by Raman-MCR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7429-7437.	4.6	9
31	Double responsive analysis of carbaryl pesticide based on carbon quantum dots and Au nanoparticles. <i>Dyes and Pigments</i> , 2020, 181, 108529.	3.7	32
32	Gemini Peptide Amphiphiles with Broad-Spectrum Antimicrobial Activity and Potent Antibiofilm Capacity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17220-17229.	8.0	38
33	Ag ³⁺ -3,3',5,5'-tetramethylbenzidine as a probe for colorimetric detection of ascorbic acid in beverages. <i>New Journal of Chemistry</i> , 2020, 44, 1772-1776.	2.8	11
34	Carbon quantum dots originated from chicken blood as peroxidase mimics for colorimetric detection of biothiols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 396, 112529.	3.9	40
35	Colorimetric determination of ascorbic acid based on carbon quantum dots as peroxidase mimetic enzyme. <i>RSC Advances</i> , 2020, 10, 14953-14957.	3.6	18
36	Switch on fluorescence mode for determination of l-cysteine with carbon quantum dots and Au nanoparticles as a probe. <i>RSC Advances</i> , 2020, 10, 1989-1994.	3.6	19

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37	Preface to the Interfacial Science Developments at the Chinese Academy of Sciences Virtual Special Issue. <i>Langmuir</i> , 2020, 36, 12087-12087.	3.5	0
38	Colorimetric detection of hydrogen peroxide and glucose by exploiting the peroxidase-like activity of papain. <i>RSC Advances</i> , 2019, 9, 16566-16570.	3.6	33
39	Enhancing Droplet Deposition on Wired and Curved Superhydrophobic Leaves. <i>ACS Nano</i> , 2019, 13, 7966-7974.	14.6	107
40	Uniform Spread of High-Speed Drops on Superhydrophobic Surface by Live Oligomeric Surfactant Jamming. <i>Advanced Materials</i> , 2019, 31, e1904475.	21.0	49
41	Seeded growth of gold nanoparticles in aqueous solution of cationic gemini surfactants with different spacer length: influences of molecular and aggregate structures. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	4
42	Colorimetric enzymatic determination of glucose based on etching of gold nanorods by iodine and using carbon quantum dots as peroxidase mimics. <i>Mikrochimica Acta</i> , 2019, 186, 161.	5.0	63
43	Enzyme-Triggered Morphological Transition of Peptide Nanostructures for Tumor-Targeted Drug Delivery and Enhanced Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16357-16366.	8.0	61
44	Simple and fast determination of biothiols using Fe ³⁺ , 5-tetramethylbenzidine as a colorimetric probe. <i>Microchemical Journal</i> , 2019, 147, 319-323.	4.5	20
45	Effects of Molecular Structure and Temperature on Micellization of Cationic Ammonium Gemini Surfactants in Aqueous Solution. <i>Journal of Surfactants and Detergents</i> , 2019, 22, 431-439.	2.1	4
46	Thiazoline-pyrene selective and sensitive fluorescence sensor for detection of Cu ²⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 215, 260-265.	3.9	33
47	Interaction of phospholipid vesicles with gemini surfactants of different lysine spacer lengths. <i>Soft Matter</i> , 2019, 15, 9458-9467.	2.7	7
48	Conducting Polymers-Thylakoid Hybrid Materials for Water Oxidation and Photoelectric Conversion. <i>Advanced Electronic Materials</i> , 2019, 5, 1800789.	5.1	36
49	Design, Synthesis, and Nanostructure-Dependent Antibacterial Activity of Cationic Peptide Amphiphiles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2790-2801.	8.0	101
50	Effects of Gold Nanospheres and Nanocubes on Amyloid- β Peptide Fibrillation. <i>Langmuir</i> , 2019, 35, 2334-2342.	3.5	27
51	Synthesis of Fluorescent Carbon Quantum Dots from Dried Lemon Peel for Determination of Carmine in Drinks. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 164-168.	2.6	41
52	Self-Assembly and Functions of Star-Shaped Oligomeric Surfactants. <i>Langmuir</i> , 2018, 34, 11220-11241.	3.5	18
53	Preparation of carbon quantum dots from cigarette filters and its application for fluorescence detection of Sudan I. <i>Analytica Chimica Acta</i> , 2018, 1023, 115-120.	5.4	69
54	Effects of Calcium Ions on the Solubility and Rheological Behavior of a C22-Tailed Hydroxyl Sulfobetaine Surfactant in Aqueous Solution. <i>Langmuir</i> , 2018, 34, 291-301.	3.5	16

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55	A novel trimeric cationic surfactant as a highly efficient capping agent for the synthesis of trioctahedral gold nanocrystals. <i>CrystEngComm</i> , 2018, 20, 7631-7636.	2.6	4
56	Partition of Glutamic Acid-Based Single-Chain and Gemini Amphiphiles into Phospholipid Membranes. <i>Langmuir</i> , 2018, 34, 13652-13661.	3.5	3
57	DNA-assisted synthesis of nickel cobalt sulfide nanosheets as high-performance battery-type electrode materials. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 100-108.	9.4	5
58	Peptide Amphiphiles with Distinct Supramolecular Nanostructures for Controlled Antibacterial Activities. <i>ACS Applied Bio Materials</i> , 2018, 1, 21-26.	4.6	38
59	Peptide-Induced DNA Condensation into Virus-Mimicking Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24349-24360.	8.0	29
60	Synthesis of catalytically active carbon quantum dots and its application for colorimetric detection of glutathione. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1098-1102.	7.8	76
61	Synergistic Interaction and Aggregation Behavior in a Mixture of a Tripolar Zwitterionic Surfactant and an Anionic Surfactant. <i>Journal of Surfactants and Detergents</i> , 2018, 21, 899-908.	2.1	9
62	Design of antibacterial peptide-like conjugated molecule with broad spectrum antimicrobial ability. <i>Science China Chemistry</i> , 2018, 61, 113-117.	8.2	21
63	Coacervation with surfactants: From single-chain surfactants to gemini surfactants. <i>Advances in Colloid and Interface Science</i> , 2017, 239, 199-212.	14.7	112
64	Synergistic Behavior and Microstructure Transition in Mixture of Zwitterionic Surfactant, Anionic Surfactant, and Salts in Sorbitol/H ₂ O Solvent: 1. Effect of Surfactant Compositions. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 435-443.	2.1	7
65	Controlling liquid splash on superhydrophobic surfaces by a vesicle surfactant. <i>Science Advances</i> , 2017, 3, e1602188.	10.3	218
66	Thermodynamic Association Behaviors of Sodium Dodecyl Sulfate (SDS) with Poly(4-vinylpyridine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Detergents, 2017, 20, 647-657.	2.1	9
67	Coacervate of Polyacrylamide and Cationic Gemini Surfactant for the Extraction of Methyl Orange from Aqueous Solution. <i>Langmuir</i> , 2017, 33, 6846-6856.	3.5	29
68	Interactions of Cationic/Anionic Mixed Surfactant Aggregates with Phospholipid Vesicles and Their Skin Penetration Ability. <i>Langmuir</i> , 2017, 33, 2760-2769.	3.5	26
69	Trace Water as Prominent Factor to Induce Peptide Self-Assembly: Dynamic Evolution and Governing Interactions in Ionic Liquids. <i>Small</i> , 2017, 13, 1702175.	10.0	49
70	Tuning Antibacterial Activity of Cyclodextrin-Attached Cationic Ammonium Surfactants by a Supramolecular Approach. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31657-31666.	8.0	28
71	Synthesis of a water-soluble 2,6-helic[6]arene derivative and its strong binding abilities towards quaternary phosphonium salts: an acid/base controlled switchable complexation process. <i>Chemical Communications</i> , 2017, 53, 10433-10436.	4.1	22
72	Rheological Properties and Microstructure Transition in Mixture of Zwitterionic Surfactant, Anionic Surfactant and Salts in Sorbitol/H ₂ O Solvent: 2. Effect of Salts and Sorbitol. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 1213-1221.	2.1	0

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73	Reducing the contact time using macro anisotropic superhydrophobic surfaces " effect of parallel wire spacing on the drop impact. <i>NPG Asia Materials</i> , 2017, 9, e415-e415.	7.9	79
74	Interactions of Phospholipid Vesicles with Cationic and Anionic Oligomeric Surfactants. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7122-7132.	2.6	17
75	Aggregation of Oligomeric Surfactant Constructed by Four-Armed Carboxylic Acid Sodium and Cationic Surfactant. <i>Langmuir</i> , 2017, 33, 7271-7280.	3.5	9
76	Interactions of Divalent and Trivalent Metal Counterions with Anionic Sulfonate Gemini Surfactant and Induced Aggregate Transitions in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4102-4113.	2.6	24
77	Colorimetric determination of the activity of acetylcholinesterase and its inhibitors by exploiting the iodide-catalyzed oxidation of 3,3',5,5'-tetramethylbenzidine by hydrogen peroxide. <i>Mikrochimica Acta</i> , 2016, 183, 2589-2595.	5.0	19
78	Self-Assembly of Oleyl Bis(2-hydroxyethyl)methyl Ammonium Bromide with Sodium Dodecyl Sulfate and Their Interactions with Zein. <i>Langmuir</i> , 2016, 32, 8212-8221.	3.5	24
79	A Trimeric Surfactant: Surface Micelles, Hydration " Lubrication, and Formation of a Stable, Charged Hydrophobic Monolayer. <i>Langmuir</i> , 2016, 32, 11754-11762.	3.5	26
80	Transitions in the Molecular Configuration and Aggregates for Mixtures of a Star-Shaped Hexameric Cationic Surfactant and a Monomeric Anionic Surfactant. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2763-2772.	3.3	3
81	Selective Antimicrobial Activities and Action Mechanism of Micelles Self-Assembled by Cationic Oligomeric Surfactants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4242-4249.	8.0	165
82	Temperature-Induced Aggregate Transitions in Mixtures of Cationic Ammonium Gemini Surfactant with Anionic Glutamic Acid Surfactant in Aqueous Solution. <i>Langmuir</i> , 2016, 32, 972-981.	3.5	34
83	Microwave-assisted synthesis of CdTe quantum dots using 3-mercaptopropionic acid as both a reducing agent and a stabilizer. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 16-19.	2.6	4
84	Constructing Surfactant Systems with the Characteristics of Gemini and Oligomeric Surfactants Through Noncovalent Interaction. <i>Journal of Surfactants and Detergents</i> , 2016, 19, 237-247.	2.1	26
85	Modulation of partition and localization of perfume molecules in sodium dodecyl sulfate micelles. <i>Soft Matter</i> , 2016, 12, 219-227.	2.7	23
86	Fabrication of CdSe quantum dots/permutite luminescent materials. <i>Bulletin of Materials Science</i> , 2015, 38, 1443-1447.	1.7	0
87	Constructing Gemini-Like Surfactants with Single-Chain Surfactant and Dicarboxylic Acid Sodium Salts. <i>Journal of Surfactants and Detergents</i> , 2015, 18, 25-31.	2.1	22
88	A facile label-free colorimetric aptasensor for ricin based on the peroxidase-like activity of gold nanoparticles. <i>RSC Advances</i> , 2015, 5, 16036-16041.	3.6	22
89	Carbon dots based fluorescent sensor for sensitive determination of hydroquinone. <i>Talanta</i> , 2015, 144, 258-262.	5.5	56
90	Simple synthesis of luminescent CdSe quantum dots from ascorbic acid and selenium dioxide. <i>Luminescence</i> , 2015, 30, 1375-1379.	2.9	11

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91	Enhanced Molecular Recognition between Nucleobases and Guanine-5'-monophosphate-disodium (GMP) by Surfactant Aggregates in Aqueous Solution. ACS Applied Materials & Interfaces, 2015, 7, 15078-15087.	8.0	7
92	Highly sensitive and selective colorimetric detection of glutathione based on Ag ^I ion-3,3',5,5'-tetramethylbenzidine (TMB). Biosensors and Bioelectronics, 2015, 63, 47-52.	10.1	137
93	Aqueous synthesis of luminescent cadmium telluride quantum dots using ascorbic acid as the reducing agent. Micro and Nano Letters, 2014, 9, 478-481.	1.3	3
94	Ag ^I -Directed Triple-Stranded Helicates with meta-Ethynylpyridine Ligands. European Journal of Inorganic Chemistry, 2014, 2014, 3235-3244.	2.0	7
95	Synthesis of Color-Tunable CdSe Nanocrystals via a Green Synthetic Method. IEEE Photonics Technology Letters, 2014, 26, 1196-1198.	2.5	1
96	Aqueous synthesis of highly luminescent CdSe quantum dots with narrow spectra using hydrazine hydrate reduction selenium. Micro and Nano Letters, 2014, 9, 202-205.	1.3	4
97	Visual detection of melamine based on the peroxidase-like activity enhancement of bare gold nanoparticles. Biosensors and Bioelectronics, 2014, 60, 286-291.	10.1	133
98	Highly sensitive and rapid visual detection of ricin using unmodified gold nanoparticle probes. RSC Advances, 2014, 4, 43998-44003.	3.6	17
99	Facile fabrication of CuO nanowire modified Cu electrode for non-enzymatic glucose detection with enhanced sensitivity. RSC Advances, 2014, 4, 28842-28847.	3.6	40
100	A carbon dot based biosensor for melamine detection by fluorescence resonance energy transfer. Sensors and Actuators B: Chemical, 2014, 202, 201-208.	7.8	188
101	Facile synthesis of two-dimensional highly branched gold nanostructures in aqueous solutions of cationic gemini surfactant. CrystEngComm, 2013, 15, 2648.	2.6	21
102	Salt effects on the aggregation behavior of tripolar zwitterionic surfactants with different inter-charge spacers in aqueous solution. Colloid and Polymer Science, 2013, 291, 1613-1621.	2.1	13
103	One-pot synthesis of CdTe quantum dots using tellurium dioxide as a tellurium source in aqueous solution. Colloid and Polymer Science, 2013, 291, 1313-1318.	2.1	8
104	Template synthesis of braided gold nanowires with gemini surfactant-HAuCl ₄ aggregates. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	13
105	Synthesis of CdTe Quantum Dots with Tunable Photoluminescence Using Tellurium Dioxide as Tellurium Source. Chinese Journal of Chemistry, 2012, 30, 2440-2444.	4.9	7
106	Fluorescent nanofibrils constructed by self-assembly of a peptide amphiphile with an anionic dye. Soft Matter, 2011, 7, 10773.	2.7	8
107	Synthesis of CdSe quantum dots using selenium dioxide as selenium source and its interaction with pepsin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 1311-1315.	3.9	28
108	Rapid synthesis of CdSe nanocrystals in aqueous solution at room temperature. Bulletin of Materials Science, 2010, 33, 543-546.	1.7	25

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109	“Annular Ring”-microtubes formed by SDS@2 ¹ -CD complexes in aqueous solution. <i>Soft Matter</i> , 2010, 6, 1731.	2.7	104
110	Aggregation behaviour of a novel series of polyamidoamine-based dendrimers in aqueous solution. <i>Supramolecular Chemistry</i> , 2009, 21, 754-758.	1.2	8
111	Rheologic Properties and Molecular Configuration of Polymers in Salt-Alkali-Surfactant Mixed Solutions. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 101-105.	2.4	11
112	Relationship Between the Polymer Structures and Destabilization of Polymer-Containing Water-in-Oil Emulsions. <i>Journal of Dispersion Science and Technology</i> , 2007, 28, 1178-1182.	2.4	4
113	Interactions between Sodium Dodecyl Sulfate and Hydrophobically Modified Poly(acrylamide)s Studied by Electron Spin Resonance and Transmission Electron Microscopy. <i>Langmuir</i> , 1998, 14, 2050-2054.	3.5	36
114	Assembly of Hexagonal Column Interpenetrated Spheres from Plant Polyphenol/Cationic Surfactants and Their Application as Antimicrobial Molecular Banks. <i>Angewandte Chemie</i> , 0, , .	2.0	0