

# Wang Yilin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6031152/publications.pdf>

Version: 2024-02-01

114  
papers

3,405  
citations

159585

30  
h-index

168389

53  
g-index

116  
all docs

116  
docs citations

116  
times ranked

4397  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling liquid splash on superhydrophobic surfaces by a vesicle surfactant. <i>Science Advances</i> , 2017, 3, e1602188.	10.3	218
2	A carbon dot based biosensor for melamine detection by fluorescence resonance energy transfer. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 201-208.	7.8	188
3	Selective Antimicrobial Activities and Action Mechanism of Micelles Self-Assembled by Cationic Oligomeric Surfactants. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4242-4249.	8.0	165
4	Highly sensitive and selective colorimetric detection of glutathione based on Ag <sup>[I]</sup> ion-3,5,5-tetramethylbenzidine (TMB). <i>Biosensors and Bioelectronics</i> , 2015, 63, 47-52.	10.1	137
5	Visual detection of melamine based on the peroxidase-like activity enhancement of bare gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2014, 60, 286-291.	10.1	133
6	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
7	Enhancing Droplet Deposition on Wired and Curved Superhydrophobic Leaves. <i>ACS Nano</i> , 2019, 13, 7966-7974.	14.6	107
8	“Annular Ring”-microtubes formed by SDS@2 <sup>1</sup> -CD complexes in aqueous solution. <i>Soft Matter</i> , 2010, 6, 1731.	2.7	104
9	Design, Synthesis, and Nanostructure-Dependent Antibacterial Activity of Cationic Peptide Amphiphiles. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2790-2801.	8.0	101
10	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
11	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
12	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
13	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
14	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
15	Enzyme-Triggered Morphological Transition of Peptide Nanostructures for Tumor-Targeted Drug Delivery and Enhanced Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16357-16366.	8.0	61
16	Carbon dots based fluorescent sensor for sensitive determination of hydroquinone. <i>Talanta</i> , 2015, 144, 258-262.	5.5	56
17	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
18	Uniform Spread of High-Speed Drops on Superhydrophobic Surface by Live-Oligomeric Surfactant Jamming. <i>Advanced Materials</i> , 2019, 31, e1904475.	21.0	49

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Facile fabrication of CuO nanowire modified Cu electrode for non-enzymatic glucose detection with enhanced sensitivity. <i>RSC Advances</i> , 2014, 4, 28842-28847.	3.6	40
22	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
23	Peptide Amphiphiles with Distinct Supramolecular Nanostructures for Controlled Antibacterial Activities. <i>ACS Applied Bio Materials</i> , 2018, 1, 21-26.	4.6	38
24	Gemini Peptide Amphiphiles with Broad-Spectrum Antimicrobial Activity and Potent Antibiofilm Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 17220-17229.	8.0	38
25	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
26	Conducting Polymers-Thylakoid Hybrid Materials for Water Oxidation and Photoelectric Conversion. <i>Advanced Electronic Materials</i> , 2019, 5, 1800789.	5.1	36
27	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
28	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
29	Thiazoline-pyrene selective and sensitive fluorescence sensor for detection of Cu <sup>2+</sup> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 215, 260-265.	3.9	33
30	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
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	Effects of Hyaluronan Molecular Weight on the Lubrication of Cartilage-Emulating Boundary Layers. <i>Biomacromolecules</i> , 2020, 21, 4345-4354.	5.4	30
33	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
34	Peptide-Induced DNA Condensation into Virus-Mimicking Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 24349-24360.	8.0	29
35	Synthesis of CdSe quantum dots using selenium dioxide as selenium source and its interaction with pepsin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1311-1315.	3.9	28
36	Tuning Antibacterial Activity of Cyclodextrin-Attached Cationic Ammonium Surfactants by a Supramolecular Approach. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31657-31666.	8.0	28

#	ARTICLE	IF	CITATIONS
37	Effects of Gold Nanospheres and Nanocubes on Amyloid- $\beta^2$ Peptide Fibrillation. <i>Langmuir</i> , 2019, 35, 2334-2342.	3.5	27
38	A Trimeric Surfactant: Surface Micelles, Hydration- $\alpha$ Lubrication, and Formation of a Stable, Charged Hydrophobic Monolayer. <i>Langmuir</i> , 2016, 32, 11754-11762.	3.5	26
39	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
40	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
41	Modulating the Excited State Chirality of Dynamic Chemical Reactions in Chiral Micelles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	26
42	Rapid synthesis of CdSe nanocrystals in aqueous solution at room temperature. <i>Bulletin of Materials Science</i> , 2010, 33, 543-546.	1.7	25
43	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
44	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
45	Modulation of partition and localization of perfume molecules in sodium dodecyl sulfate micelles. <i>Soft Matter</i> , 2016, 12, 219-227.	2.7	23
46	A Multiresponsive Transformation between Surfactant-Based Coacervates and Vesicles. <i>CCS Chemistry</i> , 2021, 3, 358-366.	7.8	23
47	Constructing Gemini- $\alpha$ -Like Surfactants with Single- $\alpha$ -Chain Surfactant and Dicarboxylic Acid Sodium Salts. <i>Journal of Surfactants and Detergents</i> , 2015, 18, 25-31.	2.1	22
48	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
49	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
50	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
51	Facile synthesis of two-dimensional highly branched gold nanostructures in aqueous solutions of cationic gemini surfactant. <i>CrystEngComm</i> , 2013, 15, 2648.	2.6	21
52	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
53	Design of antibacterial peptide-like conjugated molecule with broad spectrum antimicrobial ability. <i>Science China Chemistry</i> , 2018, 61, 113-117.	8.2	21
54	Simple and fast determination of biothiols using Fe $^{3+}$ , 3- $\alpha$ , 5- $\alpha$ -tetramethylbenzidine as a colorimetric probe. <i>Microchemical Journal</i> , 2019, 147, 319-323.	4.5	20

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Self-Assembly and Functions of Star-Shaped Oligomeric Surfactants. <i>Langmuir</i> , 2018, 34, 11220-11241.	3.5	18
58	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
59	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
60	Highly sensitive and rapid visual detection of ricin using unmodified gold nanoparticle probes. <i>RSC Advances</i> , 2014, 4, 43998-44003.	3.6	17
61	Interactions of Phospholipid Vesicles with Cationic and Anionic Oligomeric Surfactants. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7122-7132.	2.6	17
62	High sensitivity detection of H <sub>2</sub> O <sub>2</sub> and glucose based on carbon quantum dots-catalyzed 3, 3', 5, 5'-tetramethylbenzidine oxidation. <i>Microchemical Journal</i> , 2020, 159, 105365.	4.5	17
63	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
64	Salt effects on the aggregation behavior of tripolar zwitterionic surfactants with different inter-charge spacers in aqueous solution. <i>Colloid and Polymer Science</i> , 2013, 291, 1613-1621.	2.1	13
65	Template synthesis of braided gold nanowires with gemini surfactant-HAuCl <sub>4</sub> aggregates. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	13
66	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
67	Condensed Supramolecular Helices: The Twisted Sisters of DNA. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	13
68	Supramolecular Nanofibers for Encapsulation and In Situ Differentiation of Neural Stem Cells. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901295.	7.6	12
69	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
70	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
71	Simple synthesis of luminescent CdSe quantum dots from ascorbic acid and selenium dioxide. <i>Luminescence</i> , 2015, 30, 1375-1379.	2.9	11
72	Ag <sup>+</sup> -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

#	ARTICLE	IF	CITATIONS
73	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
74	Trimeric Cationic Surfactant Coacervation as a Versatile Approach for Removing Organic Pollutants. <i>Langmuir</i> , 2021, 37, 5993-6001.	3.5	10
75	Thermodynamic Association Behaviors of Sodium Dodecyl Sulfate (SDS) with Poly(4-vinylpyridine) Tj ETQq1 1 0.784314 rgBT /Overl Detergents, 2017, 20, 647-657.	2.1	9
76	Aggregation of Oligomeric Surfactant Constructed by Four-Armed Carboxylic Acid Sodium and Cationic Surfactant. <i>Langmuir</i> , 2017, 33, 7271-7280.	3.5	9
77	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
78	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
79	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
80	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
81	Aggregation behaviour of a novel series of polyamidoamine-based dendrimers in aqueous solution. <i>Supramolecular Chemistry</i> , 2009, 21, 754-758.	1.2	8
82	Fluorescent nanofibrils constructed by self-assembly of a peptide amphiphile with an anionic dye. <i>Soft Matter</i> , 2011, 7, 10773.	2.7	8
83	One-pot synthesis of CdTe quantum dots using tellurium dioxide as a tellurium source in aqueous solution. <i>Colloid and Polymer Science</i> , 2013, 291, 1313-1318.	2.1	8
84	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
85	Synthesis of CdTe Quantum Dots with Tunable Photoluminescence Using Tellurium Dioxide as Tellurium Source. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2440-2444.	4.9	7
86	Ag <sup>I</sup> -Directed Triple-Stranded Helicates with meta-Ethynylpyridine Ligands. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3235-3244.	2.0	7
87	Enhanced Molecular Recognition between Nucleobases and Guanine-5'-monophosphate-disodium (GMP) by Surfactant Aggregates in Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 15078-15087.	8.0	7
88	Synergistic Behavior and Microstructure Transition in Mixture of Zwitterionic Surfactant, Anionic Surfactant, and Salts in Sorbitol/H <sub>2</sub> O Solvent: 1. Effect of Surfactant Compositions. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 435-443.	2.1	7
89	Interaction of phospholipid vesicles with gemini surfactants of different lysine spacer lengths. <i>Soft Matter</i> , 2019, 15, 9458-9467.	2.7	7
90	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

#	ARTICLE	IF	CITATIONS
91	Condensed Supramolecular Helices: The Twisted Sisters of DNA. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
92	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
93	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
94	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
95	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
96	Aqueous synthesis of highly luminescent CdSe quantum dots with narrow spectra using hydrazine hydrate reduction selenium. <i>Micro and Nano Letters</i> , 2014, 9, 202-205.	1.3	4
97	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
98	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
99	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
100	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
101	Partition and Solubilization of Phospholipid Vesicles by Noncovalently Constructed Oligomeric-like Surfactants. <i>Langmuir</i> , 2020, 36, 8733-8744.	3.5	4
102	Determination of glucose by using MoS <sub>2</sub> nanosheets as a peroxidase mimetic enzyme. <i>New Journal of Chemistry</i> , 2021, 45, 18048-18053.	2.8	4
103	Colorimetric Detection of Glucose Using WO <sub>3</sub> Nanosheets as Peroxidase-mimetic Enzyme. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 985-990.	2.6	4
104	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
105	Modulating the Excited State Chirality of Dynamic Chemical Reactions in Chiral Micelles. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
106	Aqueous synthesis of luminescent cadmium telluride quantum dots using ascorbic acid as the reducing agent. <i>Micro and Nano Letters</i> , 2014, 9, 478-481.	1.3	3
107	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
108	Partition of Glutamic Acid-Based Single-Chain and Gemini Amphiphiles into Phospholipid Membranes. <i>Langmuir</i> , 2018, 34, 13652-13661.	3.5	3

#	ARTICLE	IF	CITATIONS
109	Pearling and helical nanostructures of model protocell membranes. Nano Research, 2022, 15, 659.	10.4	2
110	Synthesis of Color-Tunable CdSe Nanocrystals via a Green Synthetic Method. IEEE Photonics Technology Letters, 2014, 26, 1196-1198.	2.5	1
111	Fabrication of CdSe quantum dots/permutite luminescent materials. Bulletin of Materials Science, 2015, 38, 1443-1447.	1.7	0
112	Rheological Properties and Microstructure Transition in Mixture of Zwitterionic Surfactant, Anionic Surfactant and Salts in Sorbitol/H <sub>2</sub> O Solvent: 2. Effect of Salts and Sorbitol. Journal of Surfactants and Detergents, 2017, 20, 1213-1221.	2.1	0
113	Assembly of Hexagonal Column Interpenetrated Spheres from Plant Polyphenol/Cationic Surfactants and Their Application as Antimicrobial Molecular Banks. Angewandte Chemie, 0, , .	2.0	0
114	Preface to the Interfacial Science Developments at the Chinese Academy of Sciences Virtual Special Issue. Langmuir, 2020, 36, 12087-12087.	3.5	0