

Yuzhou Wu

List of Publications by Year in descending order

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107
papers

3,992
citations

147566

31
h-index

133063

59
g-index

111
all docs

111
docs citations

111
times ranked

6252
citing authors

#	ARTICLE	IF	CITATIONS
1	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
2	Diamond Quantum Devices in Biology. Angewandte Chemie - International Edition, 2016, 55, 6586-6598.	7.2	202
3	A Writable Polypeptide-DNA Hydrogel with Rationally Designed Multi-Modification Sites. Small, 2015, 11, 1138-1143.	5.2	119
4	Fabrication of Defined Polydopamine Nanostructures by DNA Origami-Templated Polymerization. Angewandte Chemie - International Edition, 2018, 57, 1587-1591.	7.2	100
5	pH-Responsive Quantum Dots via an Albumin Polymer Surface Coating. Journal of the American Chemical Society, 2010, 132, 5012-5014.	6.6	94
6	Receptor selective ruthenium-somatostatin photosensitizer for cancer targeted photodynamic applications. Chemical Communications, 2015, 51, 12552-12555.	2.2	84
7	Programmable Biopolymers for Advancing Biomedical Applications of Fluorescent Nanodiamonds. Advanced Functional Materials, 2015, 25, 6576-6585.	7.8	77
8	Protein-polymer therapeutics: a macromolecular perspective. Biomaterials Science, 2015, 3, 214-230.	2.6	72
9	Functional DNA-Polymer Conjugates. Chemical Reviews, 2021, 121, 11030-11084.	23.0	72
10	Constructing Hybrid Protein Zymogens through Protective Dendritic Assembly. Angewandte Chemie - International Edition, 2014, 53, 324-328.	7.2	70
11	Bis-sulfide bioconjugates for glutathione triggered tumor responsive drug release. Chemical Communications, 2014, 50, 1116-1118.	2.2	70
12	A Core-Shell Albumin Copolymer Nanotransporter for High Capacity Loading and Two-Step Release of Doxorubicin with Enhanced Anti-Leukemia Activity. Advanced Healthcare Materials, 2013, 2, 884-894.	3.9	69
13	Bioinspired Multifunctional Black Phosphorus Hydrogel with Antibacterial and Antioxidant Properties: A Stepwise Countermeasure for Diabetic Skin Wound Healing. Advanced Healthcare Materials, 2022, 11, e2102791.	3.9	69
14	Fluorescent Nanodiamond-Gold Hybrid Particles for Multimodal Optical and Electron Microscopy Cellular Imaging. Nano Letters, 2016, 16, 6236-6244.	4.5	68
15	Programmable protein-DNA hybrid hydrogels for the immobilization and release of functional proteins. Chemical Communications, 2014, 50, 14620-14622.	2.2	66
16	DNA-Based Self-Assembly of Fluorescent Nanodiamonds. Journal of the American Chemical Society, 2015, 137, 9776-9779.	6.6	66
17	Water-soluble allyl sulfones for dual site-specific labelling of proteins and cyclic peptides. Chemical Science, 2016, 7, 3234-3239.	3.7	66
18	Bottom-Up Fabrication of Nanopatterned Polymers on DNA Origami by In-Situ Atom Transfer Radical Polymerization. Angewandte Chemie - International Edition, 2016, 55, 5692-5697.	7.2	64

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19	Spatiotemporally Controlled Release of Rho GTPase Inhibiting C3 Toxin from a Protein-DNA Hybrid Hydrogel for Targeted Inhibition of Osteoclast Formation and Activity. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700392.	3.9	57
20	Enantioselective Oxidative Phenol-Indole [3 + 2] Coupling Enabled by Biomimetic Mn(III)/Brønsted Acid Relay Catalysis. <i>ACS Catalysis</i> , 2019, 9, 7285-7291.	5.5	52
21	Inorganic Nanoparticles Applied as Functional Therapeutics. <i>Advanced Functional Materials</i> , 2021, 31, 2008171.	7.8	51
22	A Quantum Dot Photoswitch for DNA Detection, Gene Transfection, and Live-Cell Imaging. <i>Small</i> , 2012, 8, 3465-3475.	5.2	48
23	Programming Supramolecular Biohybrids as Precision Therapeutics. <i>Accounts of Chemical Research</i> , 2014, 47, 3471-3480.	7.6	43
24	Intracellular Bottom-Up Synthesis of Ultrasmall CuS Nanodots in Cancer Cells for Simultaneous Photothermal Therapy and COX-2 Inactivation. <i>Advanced Functional Materials</i> , 2021, 31, 2101297.	7.8	41
25	Copper-Catalyzed Regioselective Intramolecular Electrophilic Sulfenoamination via Lewis Acid Activation of Disulfides under Aerobic Conditions. <i>Organic Letters</i> , 2018, 20, 4350-4353.	2.4	40
26	The CAM cancer xenograft as a model for initial evaluation of MR labelled compounds. <i>Scientific Reports</i> , 2017, 7, 46690.	1.6	39
27	Dendronized Albumin Core-Shell Transporters with High Drug Loading Capacity. <i>Biomacromolecules</i> , 2013, 14, 367-376.	2.6	37
28	Polymer tube nanoreactors via DNA-origami templated synthesis. <i>Chemical Communications</i> , 2018, 54, 2808-2811.	2.2	36
29	Unraveling In Vivo Brain Transport of Protein-Coated Fluorescent Nanodiamonds. <i>Small</i> , 2019, 15, e1902992.	5.2	35
30	Designing Squaraine Dyes with Bright Deep-Red Aggregation-Induced Emission for Specific and Ratiometric Fluorescent Detection of Hypochlorite. <i>Advanced Functional Materials</i> , 2021, 31, 2105452.	7.8	34
31	pH Responsive Janus-like Supramolecular Fusion Proteins for Functional Protein Delivery. <i>Journal of the American Chemical Society</i> , 2013, 135, 17254-17257.	6.6	33
32	A Disulfide Intercalator Toolbox for the Site-Directed Modification of Polypeptides. <i>Chemistry - A European Journal</i> , 2015, 21, 228-238.	1.7	33
33	Enhancing cellular uptake of GFP via unfolded supercharged protein tags. <i>Biomaterials</i> , 2013, 34, 4360-4367.	5.7	32
34	Biocatalytic Cross-Coupling of Aryl Halides with a Genetically Engineered Photosensitizer Artificial Dehalogenase. <i>Journal of the American Chemical Society</i> , 2021, 143, 617-622.	6.6	32
35	Mitochondrion-targeted selenium nanoparticles enhance reactive oxygen species-mediated cell death. <i>Nanoscale</i> , 2020, 12, 1389-1396.	2.8	31
36	Convenient Approach to Polypeptide Copolymers Derived from Native Proteins. <i>Biomacromolecules</i> , 2012, 13, 1890-1898.	2.6	30

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37	Bottom-Up Fabrication of Nanopatterned Polymers on DNA Origami by In-Situ Atom Transfer Radical Polymerization. <i>Angewandte Chemie</i> , 2016, 128, 5786-5791.	1.6	29
38	Fine Customization of Calcium Phosphate Nanostructures with Site-Specific Modification by DNA Templated Mineralization. <i>ACS Nano</i> , 2021, 15, 1555-1565.	7.3	29
39	A Polyphenylene Dendrimer Drug Transporter with Precisely Positioned Amphiphilic Surface Patches. <i>Advanced Healthcare Materials</i> , 2015, 4, 377-384.	3.9	28
40	Nano-Sized Albumin-Copolymer Micelles for Efficient Doxorubicin Delivery. <i>Biointerphases</i> , 2012, 7, 5.	0.6	25
41	Cross-conjugation of DNA, proteins and peptides via a pH switch. <i>Chemical Science</i> , 2013, 4, 1889.	3.7	25
42	Fabrication of Defined Polydopamine Nanostructures by DNA Origami-Templated Polymerization. <i>Angewandte Chemie</i> , 2018, 130, 1603-1607.	1.6	25
43	Efficient Delivery of p53 and Cytochrome C by Supramolecular Assembly of a Dendritic Multi-Domain Delivery System. <i>Advanced Healthcare Materials</i> , 2013, 2, 1620-1629.	3.9	24
44	Enzymatically synthesised MnO ₂ nanoparticles for efficient near-infrared photothermal therapy and dual-responsive magnetic resonance imaging. <i>Nanoscale</i> , 2021, 13, 11093-11103.	2.8	24
45	Catalytic Atroposelective Electrophilic Amination of Indoles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24
46	Rhodium-catalyzed aminohydroxylation of unactivated alkenes in aqueous media for the benign synthesis of 1,2-amino alcohols. <i>Green Chemistry</i> , 2019, 21, 780-784.	4.6	23
47	Directing intracellular supramolecular assembly with N-heteroaromatic quaterthiophene analogues. <i>Nature Communications</i> , 2017, 8, 1850.	5.8	22
48	Assembly of C3a-Peroxylated Pyrroloindolines via Interrupted Witkop Oxidation. <i>Organic Letters</i> , 2018, 20, 7937-7941.	2.4	22
49	Patchy Amphiphilic Dendrimers Bind Adenovirus and Control Its Host Interactions and in Vivo Distribution. <i>ACS Nano</i> , 2019, 13, 8749-8759.	7.3	22
50	Cationic Albumin Encapsulated DNA Origami for Enhanced Cellular Transfection and Stability. <i>Materials</i> , 2019, 12, 949.	1.3	22
51	Precision Biopolymers from Protein Precursors for Biomedical Applications. <i>Macromolecular Rapid Communications</i> , 2013, 34, 380-392.	2.0	21
52	Amphiphilic Polyphenylene Dendron Conjugates for Surface Remodeling of Adenovirus...5. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5712-5720.	7.2	20
53	Silk Fibroin-Confined Star-Shaped Decahedral Silver Nanoparticles as Fluorescent Probe for Detection of Cu ²⁺ and Pyrophosphate. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2770-2777.	2.6	20
54	Controlling Cellular Uptake and Toxicity of Polyphenylene Dendrimers by Chemical Functionalization. <i>ChemBioChem</i> , 2017, 18, 960-964.	1.3	18

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55	Unified and Benign Synthesis of Spirooxindoles via Bifunctional and Recyclable Iodide Salt-Catalyzed Oxidative Coupling in Water. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6028-6033.	1.2	18
56	Bioinspired radical cyclization of tryptamines: synthesis of peroxypyrroloindolenines as potential anti-cancer agents. <i>Chemical Communications</i> , 2019, 55, 63-66.	2.2	18
57	Selenium nanoparticles inhibit the formation of atherosclerosis in apolipoprotein E deficient mice by alleviating hyperlipidemia and oxidative stress. <i>European Journal of Pharmacology</i> , 2021, 902, 174120.	1.7	18
58	Host-guest interactions in polycationic human serum albumin bioconjugates. <i>Soft Matter</i> , 2012, 8, 11106.	1.2	17
59	NIR-emitting and photo-thermal active nanogold as mitochondria-specific probes. <i>Biomaterials Science</i> , 2017, 5, 966-971.	2.6	17
60	GaN Quantum Wells as Optochemical Transducers for Chemical Sensors and Biosensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 15-23.	1.9	16
61	Synergistic Catalysis-Enabled Thia-Aza-Prins Cyclization with DMSO and Disulfides: Entry to Sulfenylated 1,3-Oxazinanes and Oxazolidines. <i>Organic Letters</i> , 2018, 20, 5899-5904.	2.4	15
62	High-Contrast Magnetic Resonance Imaging and Efficient Delivery of an Albumin Nanotheranostic in Triple-Negative Breast Cancer Xenografts. <i>Advanced Therapeutics</i> , 2019, 2, 1900084.	1.6	15
63	Alleviating Catalyst Decay Enables Efficient Intermolecular C(sp ³)-H Amination under Mechanochemical Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1684-1691.	3.2	15
64	Self-Assembly of High Molecular Weight Polypeptide Copolymers Studied via Diffusion Limited Aggregation. <i>Biomacromolecules</i> , 2014, 15, 219-227.	2.6	14
65	Construction of tunable peptide nucleic acid junctions. <i>Chemical Communications</i> , 2018, 54, 2846-2849.	2.2	14
66	Hemin-catalyzed biomimetic oxidative phenol-indole [3 + 2] reactions in aqueous media. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9994-9998.	1.5	14
67	Nanodiamonds for Biological Applications. <i>ChemistrySelect</i> , 2017, 2, .	0.7	13
68	DNA-Programmed Chemical Synthesis of Polymers and Inorganic Nanomaterials. <i>Topics in Current Chemistry</i> , 2020, 378, 31.	3.0	12
69	Long-term administration of low-dose selenium nanoparticles with different sizes aggravated atherosclerotic lesions and exhibited toxicity in apolipoprotein E-deficient mice. <i>Chemico-Biological Interactions</i> , 2021, 347, 109601.	1.7	12
70	Comparison of Selenium Nanoparticles and Sodium Selenite on the Alleviation of Early Atherosclerosis by Inhibiting Endothelial Dysfunction and Inflammation in Apolipoprotein E-Deficient Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11612.	1.8	12
71	An efficient route to vinyl substituted oxadiazoles and triazoles using phenylselenyl derivatives as precursor. <i>Tetrahedron</i> , 2007, 63, 7866-7873.	1.0	11
72	pH responsive supramolecular core-shell protein hybrids. <i>Supramolecular Chemistry</i> , 2016, 28, 742-746.	1.5	11

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73	Collagen mineralization and its applications in hard tissue repair. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7071-7087.	3.2	11
74	Improved Synthesis of 1- α -Glycosyl Thioacetates and Its Application in the Synthesis of Thioglucoside Cliflozin Analogues. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 2940-2949.	1.2	11
75	DNA Transformations for Diagnosis and Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2008279.	7.8	11
76	Engineering surface patterns on nanoparticles: new insights into nano-bio interactions. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2357-2383.	2.9	11
77	Properties and Mechanisms of Flavin-Dependent Monooxygenases and Their Applications in Natural Product Synthesis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2622.	1.8	11
78	Multifunctional Polypeptide-PEO Nanoreactors via the Hydrophobic Switch. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1474-1481.	2.0	10
79	Polymer coated nanodiamonds as gemcitabine prodrug with enzymatic sensitivity for pancreatic cancer treatment. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 711-717.	1.8	10
80	Fine and bidirectional regulation of toehold-mediated DNA strand displacement by a wedge-like DNA tool. <i>Chemical Communications</i> , 2020, 56, 8794-8797.	2.2	10
81	Harnessing structurally unbiased <i>ortho</i> -benzoquinone monoimine for biomimetic oxidative [4+2] cycloaddition with enamines. <i>Chemical Communications</i> , 2020, 56, 5965-5968.	2.2	8
82	Programmed albumin nanoparticles regulate immunosuppressive pivot to potentiate checkpoint blockade cancer immunotherapy. <i>Nano Research</i> , 2022, 15, 593-602.	5.8	8
83	A Supramolecular Approach toward Bioinspired PAMAM-Dendronized Fusion Toxins. <i>Macromolecular Bioscience</i> , 2016, 16, 803-810.	2.1	7
84	Regioselectivity and stereoselectivity of intramolecular [2 + 2] photocycloaddition catalyzed by chiral thioxanthone: a quantum chemical study. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1532-1540.	1.5	7
85	Chemical Modification for the Off-On-Regulation of Enzyme Activity. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200195.	2.0	7
86	Catalytic Atroposelective Electrophilic Amination of Indoles. <i>Angewandte Chemie</i> , 0, , .	1.6	7
87	An Efficient Approach for Preparing Giant Polypeptide Triblock Copolymers by Protein Dimerization. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1304-1309.	2.0	6
88	Self-assembling oligothiophene- <i>bola</i> amphiphiles for loading and controlled release of doxorubicin into living cells. <i>Chemical Communications</i> , 2016, 52, 3235-3238.	2.2	6
89	Synthesis and bioconjugation of first alkynylated poly(dithieno[3,2- <i>b</i> :2',3'- <i>d</i>]pyrrole)s. <i>Polymer Chemistry</i> , 2017, 8, 7113-7118.	1.9	6
90	Defined positive charge patterns created on DNA nanostructures determine cellular uptake efficiency. <i>Nano Letters</i> , 2022, 22, 5330-5338.	4.5	6

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91	PEGylated Cationic Serum Albumin for Boosting Retroviral Gene Transfer. <i>ChemBioChem</i> , 2016, 17, 1504-1508.	1.3	5
92	Manganese(II) Oxidizing Bacteria as Whole-Cell Catalyst for β -Keto Ester Oxidation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1709.	1.8	5
93	Synthesis of β -indolylacrylates as potential anticancer agents using a Brønsted acid ionic liquid catalyst and the butyl acetate solvent. <i>RSC Advances</i> , 2020, 10, 13507-13516.	1.7	4
94	QM/MM Calculations Suggested Concerted O-H Bond Cleavage and Substrate Oxidation by Nonheme Diiron Toluene/o-xylene Monooxygenase. <i>Chemistry - an Asian Journal</i> , 0, , .	1.7	4
95	Diamant-Quantensensoren in der Biologie. <i>Angewandte Chemie</i> , 2016, 128, 6696-6709.	1.6	3
96	Encoding function into polypeptide-oligonucleotide precision biopolymers. <i>Chemical Communications</i> , 2018, 54, 11797-11800.	2.2	3
97	DNA origami-based nano-hunter enriches low-abundance point mutations by targeting wild-type gene segments. <i>Chinese Chemical Letters</i> , 2022, 33, 2052-2056.	4.8	3
98	<i>In situ</i> synthesis of fluorescent polydopamine on biogenic MnO ₂ nanoparticles as stimuli responsive multifunctional theranostics. <i>Biomaterials Science</i> , 2021, 9, 5897-5906.	2.6	3
99	Amphiphilic Polyphenylene Dendron Conjugates for Surface Remodeling of Adenovirus...5. <i>Angewandte Chemie</i> , 2020, 132, 5761-5769.	1.6	2
100	Digital Numbers Constructed by Fine Patterned Polydopamine on DNA Templates. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2100441.	2.0	2
101	DNA-Programmed Chemical Synthesis of Polymers and Inorganic Nanomaterials. <i>Topics in Current Chemistry Collections</i> , 2020, , 57-81.	0.2	2
102	Polymer Complexes in Biological Applications. <i>Advances in Polymer Science</i> , 2013, , 211-235.	0.4	1
103	Biopolymers: Programmable Biopolymers for Advancing Biomedical Applications of Fluorescent Nanodiamonds (<i>Adv. Funct. Mater.</i> 42/2015). <i>Advanced Functional Materials</i> , 2015, 25, 6558-6558.	7.8	0
104	Frontispiz: Bottom-Up Fabrication of Nanopatterned Polymers on DNA Origami by <i>In Situ</i> Atom-Transfer Radical Polymerization. <i>Angewandte Chemie</i> , 2016, 128, .	1.6	0
105	Frontispiece: Bottom-Up Fabrication of Nanopatterned Polymers on DNA Origami by <i>In Situ</i> Atom-Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	7.2	0
106	8. Nanodiamonds for Biological Applications. , 2017, , .		0
107	Converting Human Proteins into Precision Polymer Therapeutics. <i>Current Pharmaceutical Design</i> , 2016, 22, 2866-2872.	0.9	0