

# Tao Ye

## List of Publications by Year in descending order

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78  
papers

2,688  
citations

186265

28  
h-index

197818

49  
g-index

85  
all docs

85  
docs citations

85  
times ranked

3710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible Photo-Switching of Single Azobenzene Molecules in Controlled Nanoscale Environments. <i>Nano Letters</i> , 2008, 8, 1644-1648.	9.1	258
2	A Mechanical Actuator Driven Electrochemically by Artificial Molecular Muscles. <i>ACS Nano</i> , 2009, 3, 291-300.	14.6	241
3	Porphyrin Self-Assembly at Electrochemical Interfaces: A Role of Potential Modulated Surface Mobility. <i>Journal of the American Chemical Society</i> , 2002, 124, 11964-11970.	13.7	115
4	Enhanced neural stem cell functions in conductive annealed carbon nanofibrous scaffolds with electrical stimulation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2485-2494.	3.3	89
5	Tuning Interactions between Ligands in Self-Assembled Double-Decker Phthalocyanine Arrays. <i>Journal of the American Chemical Society</i> , 2006, 128, 10984-10985.	13.7	79
6	Changing Stations in Single Bistable Rotaxane Molecules under Electrochemical Control. <i>ACS Nano</i> , 2010, 4, 3697-3701.	14.6	78
7	Formation of iodinated disinfection by-products during oxidation of iodide-containing waters with chlorine dioxide. <i>Water Research</i> , 2013, 47, 3006-3014.	11.3	66
8	Mechanism of UV Photoreactivity of Alkylsiloxane Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9927-9938.	2.6	64
9	Nanoscale Spatial Distribution of Thiolated DNA on Model Nucleic Acid Sensor Surfaces. <i>ACS Nano</i> , 2013, 7, 3653-3660.	14.6	64
10	Crucial roles of oxygen and superoxide radical in bisulfite-activated persulfate oxidation of bisphenol AF: Mechanisms, kinetics and DFT studies. <i>Journal of Hazardous Materials</i> , 2020, 391, 122228.	12.4	64
11	Measurement of dissolved organic nitrogen in a drinking water treatment plant: Size fraction, fate, and relation to water quality parameters. <i>Science of the Total Environment</i> , 2011, 409, 1116-1122.	8.0	63
12	A Single-Molecule View of Conformational Switching of DNA Tethered to a Gold Electrode. <i>Journal of the American Chemical Society</i> , 2012, 134, 10021-10030.	13.7	63
13	Measuring and Suppressing the Oxidative Damage to DNA During Cu(I)-Catalyzed Azide-Alkyne Cycloaddition. <i>Bioconjugate Chemistry</i> , 2016, 27, 698-704.	3.6	62
14	A comparison of iodinated trihalomethane formation from chlorine, chlorine dioxide and potassium permanganate oxidation processes. <i>Water Research</i> , 2015, 68, 394-403.	11.3	59
15	Photoreactivity of Alkylsiloxane Self-Assembled Monolayers on Silicon Oxide Surfaces. <i>Langmuir</i> , 2001, 17, 4497-4500.	3.5	56
16	Graphitic Carbon Nitride Supported Ultrafine Pd and Pd-Cu Catalysts: Enhanced Reactivity, Selectivity, and Longevity for Nitrite and Nitrate Hydrogenation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27421-27426.	8.0	54
17	Comparison of iodinated trihalomethanes formation during aqueous chlor(am)ination of different iodinated X-ray contrast media compounds in the presence of natural organic matter. <i>Water Research</i> , 2014, 66, 390-398.	11.3	53
18	Development of palladium-resin composites for catalytic hydrodechlorination of 4-chlorophenol. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 576-586.	20.2	53

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19	Formation of iodinated disinfection by-products during oxidation of iodide-containing water with potassium permanganate. <i>Journal of Hazardous Materials</i> , 2012, 241-242, 348-354.	12.4	50
20	The Role of Hydrophobic Chains in Self-Assembly at Electrified Interfaces:Â Observation of Potential-Induced Transformations of Two-Dimensional Crystals of Hexadecane by In-situ Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11264-11271.	2.6	47
21	Fluorescence Detection of Surface-Bound Intermediates Produced from UV Photoreactivity of Alkylsiloxane SAMs. <i>Journal of the American Chemical Society</i> , 2004, 126, 2260-2261.	13.7	47
22	Adsorption and Electrochemical Activity:Â An In Situ Electrochemical Scanning Tunneling Microscopy Study of Electrode Reactions and Potential-Induced Adsorption of Porphyrins. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6141-6147.	2.6	43
23	Magma Chamber and Crustal Channel Flow Structures in the Tengchong Volcano Area From 3â€ MT Inversion at the Intracontinental Block Boundary Southeast of the Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 11,112.	3.4	43
24	Manipulating Double-Decker Molecules at the Liquidâ~Solid Interface. <i>Journal of the American Chemical Society</i> , 2010, 132, 16460-16466.	13.7	40
25	Controlled Adsorption Orientation for Double-Decker Complexes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2077-2080.	3.1	35
26	A comparison of carbonaceous, nitrogenous and iodinated disinfection by-products formation potential in different dissolved organic fractions and their reduction in drinking water treatment processes. <i>Separation and Purification Technology</i> , 2014, 133, 82-90.	7.9	34
27	Disrupting the IL-36 and IL-23/IL-17 loop underlies the efficacy of calcipotriol and corticosteroid therapy for psoriasis. <i>JCI Insight</i> , 2019, 4, .	5.0	34
28	Future climate change significantly alters interannual wheat yield variability over half of harvested areas. <i>Environmental Research Letters</i> , 2021, 16, 094045.	5.2	33
29	Enhancement of Nitrite Reduction Kinetics on Electrospun Pd-Carbon Nanomaterial Catalysts for Water Purification. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17739-17744.	8.0	32
30	Electric-Field Dependent Conformations of Single DNA Molecules on a Model Biosensor Surface. <i>Nano Letters</i> , 2012, 12, 5255-5261.	9.1	31
31	Nanoscale Positioning of Individual DNA Molecules by an Atomic Force Microscope. <i>Journal of the American Chemical Society</i> , 2010, 132, 10236-10238.	13.7	30
32	Catechol boronate formation and its electrochemical oxidation. <i>Chemical Communications</i> , 2009, , 2151.	4.1	29
33	Lignocellulose Fiber- and Welded Fiber- Supports for Palladium-Based Catalytic Hydrogenation: A Natural Fiber Welding Application for Water Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5511-5522.	6.7	29
34	Impacts of climate warming, cultivar shifts, and phenological dates on rice growth period length in China after correction for seasonal shift effects. <i>Climatic Change</i> , 2019, 155, 127-143.	3.6	28
35	A Switchable Surface Enables Visualization of Single DNA Hybridization Events with Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 6399-6402.	13.7	26
36	Characterization of trihalomethane, haloacetic acid, and haloacetonitrile precursors in a seawater reverse osmosis system. <i>Science of the Total Environment</i> , 2017, 576, 391-397.	8.0	26

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37	Linking livestock snow disaster mortality and environmental stressors in the Qinghai-Tibetan Plateau: Quantification based on generalized additive models. <i>Science of the Total Environment</i> , 2018, 625, 87-95.	8.0	25
38	Single Molecule Profiling of Molecular Recognition at a Model Electrochemical Biosensor. <i>Journal of the American Chemical Society</i> , 2018, 140, 14134-14143.	13.7	24
39	Factor contribution to fire occurrence, size, and burn probability in a subtropical coniferous forest in East China. <i>PLoS ONE</i> , 2017, 12, e0172110.	2.5	24
40	TBPL2/TFIIA complex establishes the maternal transcriptome through oocyte-specific promoter usage. <i>Nature Communications</i> , 2020, 11, 6439.	12.8	23
41	Electrochemical Etching of Gold within Nanoshaved Self-Assembled Monolayers. <i>ACS Nano</i> , 2013, 7, 5421-5429.	14.6	21
42	The fate and transformation of iodine species in UV irradiation and UV-based advanced oxidation processes. <i>Water Research</i> , 2021, 206, 117755.	11.3	21
43	Bifurcated Crustal Channel Flow and Seismogenic Structures of Intraplate Earthquakes in Western Yunnan, China as Revealed by Three-dimensional Magnetotelluric Imaging. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018991.	3.4	20
44	Extensive NEUROG3 occupancy in the human pancreatic endocrine gene regulatory network. <i>Molecular Metabolism</i> , 2021, 53, 101313.	6.5	20
45	A new approach to estimating flood-affected populations by combining mobility patterns with multi-source data: A case study of Wuhan, China. <i>International Journal of Disaster Risk Reduction</i> , 2021, 55, 102106.	3.9	19
46	The extraordinary stability imparted to silver monolayers by chloride. <i>Electrochimica Acta</i> , 2011, 56, 1652-1661.	5.2	17
47	Second harmonic generation investigations of charge transfer at chemically-modified semiconductor interfaces. <i>Journal of Applied Physics</i> , 2002, 91, 4394-4398.	2.5	16
48	Quantifying livestock vulnerability to snow disasters in the Tibetan Plateau: Comparing different modeling techniques for prediction. <i>International Journal of Disaster Risk Reduction</i> , 2020, 48, 101578.	3.9	16
49	Seeding the Self-Assembly of DNA Origamis at Surfaces. <i>ACS Nano</i> , 2020, 14, 5203-5212.	14.6	16
50	High-density gold nanowire arrays by lithographically patterned nanowire electrodeposition. <i>Nanoscale</i> , 2011, 3, 2697.	5.6	14
51	Nanoscale Chemical Patterns on Gold Microplates. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17625-17632.	3.1	14
52	Histone H2Bub1 deubiquitylation is essential for mouse development, but does not regulate global RNA polymerase II transcription. <i>Cell Death and Differentiation</i> , 2021, 28, 2385-2403.	11.2	14
53	Combined Experimental and Simulation Study of Amplitude Modulation Atomic Force Microscopy Measurements of Self-Assembled Monolayers in Water. <i>Langmuir</i> , 2018, 34, 9627-9633.	3.5	13
54	Covalent, sequence-specific attachment of long DNA molecules to a surface using DNA-templated click chemistry. <i>Chemical Communications</i> , 2014, 50, 8131-8133.	4.1	11

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55	Evaluation of the treatment of reverse osmosis concentrates from municipal wastewater reclamation by coagulation and granular activated carbon adsorption. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13543-13553.	5.3	11
56	Decreasing wheat yield stability on the North China Plain: Relative contributions from climate change in mean and variability. <i>International Journal of Climatology</i> , 2021, 41, E2820.	3.5	11
57	Nanoscale Organization of GaSe Quantum Dots on a Gold Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19102-19106.	3.1	10
58	Pd Nanoparticle Catalysts Supported on Nitrogen-Functionalized Activated Carbon for Oxyanion Hydrogenation and Water Purification. <i>ACS Applied Nano Materials</i> , 2018, 1, 6580-6586.	5.0	10
59	Dataset of trend-preserving bias-corrected daily temperature, precipitation and wind from NEX-GDDP and CMIP5 over the Qinghai-Tibet Plateau. <i>Data in Brief</i> , 2020, 31, 105733.	1.0	10
60	Electrodeposition of Metal Wires onto a Molecular Scale Template: An In Situ Investigation. <i>Langmuir</i> , 2009, 25, 5491-5495.	3.5	9
61	CD4 <sup>+</sup> T cells require Ikaros to inhibit their differentiation toward a pathogenic cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
62	Waves of sumoylation support transcription dynamics during adipocyte differentiation. <i>Nucleic Acids Research</i> , 2022, 50, 1351-1369.	14.5	8
63	Molecular conformations of DNA targets captured by model nanoarrays. <i>Nanoscale</i> , 2017, 9, 13419-13424.	5.6	7
64	Toward a Quantitative Relationship between Nanoscale Spatial Organization and Hybridization Kinetics of Surface Immobilized Hairpin DNA Probes. <i>ACS Sensors</i> , 2021, 6, 371-379.	7.8	7
65	Electrochemical Nanoscale Templating: Laterally Self-Aligned Growth of Organic-Metal Nanostructures. <i>Langmuir</i> , 2012, 28, 17537-17544.	3.5	6
66	Temozolomide-Induced RNA Interactome Uncovers Novel LncRNA Regulatory Loops in Glioblastoma. <i>Cancers</i> , 2020, 12, 2583.	3.7	6
67	Event-based probabilistic risk assessment of livestock snow disasters in the Qinghai-Tibetan Plateau. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 697-713.	3.6	5
68	An Integrated Analysis of miRNA and Gene Expression Changes in Response to an Obesogenic Diet to Explore the Impact of Transgenerational Supplementation with Omega 3 Fatty Acids. <i>Nutrients</i> , 2020, 12, 3864.	4.1	5
69	Simulation of Subnanometer Contrast in Dynamic Atomic Force Microscopy of Hydrophilic Alkanethiol Self-Assembled Monolayers in Water. <i>Langmuir</i> , 2020, 36, 2240-2246.	3.5	4
70	Hybridization and self-assembly behaviors of surface-immobilized DNA in close proximity: A single-molecule perspective. <i>Aggregate</i> , 2022, 3, .	9.9	4
71	Monochloramination of Oxytetracycline: Kinetics, Mechanisms, Pathways, and Disinfection By-products Formation. <i>Clean - Soil, Air, Water</i> , 2013, 41, 969-975.	1.1	3
72	Formation of carbonaceous and nitrogenous disinfection by-products during monochloramination of oxytetracycline including N-Nitrosodimethylamine. <i>Desalination and Water Treatment</i> , 2015, 54, 2299-2306.	1.0	3

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73	Nanoscale Friction of Hydrophilic and Hydrophobic Self-Assembled Monolayers in Water. Tribology Letters, 2020, 68, 1.	2.6	3
74	Nanografting sodium dodecyl sulfate under potential control: new insights into tip-directed molecular assembly. Nanoscale, 2013, 5, 4139.	5.6	2
75	Research highlights: under-recognized precursors and sources for disinfection byproduct formation. Environmental Science: Water Research and Technology, 2015, 1, 405-407.	2.4	2
76	Data set for analyzing livestock snow disasters in the Qinghai-Tibetan Plateau. Data in Brief, 2019, 23, 103809.	1.0	2
77	Transfer of Thiolated DNA Staples from DNA Origami Nanostructures to Self-Assembled Monolayer-Passivated Gold Surfaces: Implications for Interfacial Molecular Recognition. ACS Applied Nano Materials, 2021, 4, 8429-8436.	5.0	2
78	Unexpected effects of incident radiant energy on evaporation of Water condensate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123992.	4.7	1