

# Taolei Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,563  
citations

257429

24  
h-index

197805

49  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3478  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional biointerface materials inspired from nature. <i>Chemical Society Reviews</i> , 2011, 40, 2909.	38.1	248
2	Biomimetic Smart Interface Materials for Biological Applications. <i>Advanced Materials</i> , 2011, 23, H57-77.	21.0	242
3	Chiral biointerface materials. <i>Chemical Society Reviews</i> , 2012, 41, 1972-1984.	38.1	181
4	Singlet Fission: Progress and Prospects in Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1601652.	21.0	158
5	Stereospecific Interaction between Immune Cells and Chiral Surfaces. <i>Journal of the American Chemical Society</i> , 2007, 129, 1496-1497.	13.7	135
6	The size-effect of gold nanoparticles and nanoclusters in the inhibition of amyloid- $\beta^2$ fibrillation. <i>Nanoscale</i> , 2017, 9, 4107-4113.	5.6	126
7	Chiral Effect at Protein/Graphene Interface: A Bioinspired Perspective To Understand Amyloid Formation. <i>Journal of the American Chemical Society</i> , 2014, 136, 10736-10742.	13.7	105
8	Gold nanoclusters for Parkinson's disease treatment. <i>Biomaterials</i> , 2019, 194, 36-46.	11.4	99
9	Chirality-Triggered Wettability Switching on a Smart Polymer Surface. <i>Advanced Materials</i> , 2011, 23, 1615-1620.	21.0	84
10	Solvent-Driven Chiral-Interaction Reversion for Organogel Formation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2124-2129.	13.8	71
11	Hydrogen bond based smart polymer for highly selective and tunable capture of multiply phosphorylated peptides. <i>Nature Communications</i> , 2017, 8, 461.	12.8	71
12	A phosphorescent probe for in vivo imaging in the second near-infrared window. <i>Nature Biomedical Engineering</i> , 2022, 6, 629-639.	22.5	67
13	New Opportunities and Challenges of Smart Polymers in Post-Translational Modification Proteomics. <i>Advanced Materials</i> , 2017, 29, 1604670.	21.0	62
14	The transformation of chiral signals into macroscopic properties of materials using chirality-responsive polymers. <i>NPG Asia Materials</i> , 2012, 4, e4-e4.	7.9	54
15	Saccharide-sensitive wettability switching on a smart polymer surface. <i>Soft Matter</i> , 2009, 5, 2759.	2.7	49
16	Chirality-Assisted Ring-Like Aggregation of $\text{Al}^{3+}$ ( $1 < b > \hat{< /b > 40$ ) at Liquid-Solid Interfaces: A Stereoselective Two-Step Assembly Process. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2245-2250.	13.8	47
17	High-Efficiency Phosphopeptide and Glycopeptide Simultaneous Enrichment by Hydrogen Bond-based Bifunctional Smart Polymer. <i>Analytical Chemistry</i> , 2020, 92, 6269-6277.	6.5	42
18	Click Reaction for Reversible Encapsulation of Single Yeast Cells. <i>ACS Nano</i> , 2019, 13, 14459-14467.	14.6	41

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19	Chirality-Driven Wettability Switching and Mass Transfer. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 930-932.	13.8	39
20	The Roles of Intracellular Chaperone Proteins, Sigma Receptors, in Parkinson's Disease (PD) and Major Depressive Disorder (MDD). <i>Frontiers in Pharmacology</i> , 2019, 10, 528.	3.5	34
21	New insights into the synthesis, toxicity and applications of gold nanoparticles in CT imaging and treatment of cancer. <i>Nanomedicine</i> , 2020, 15, 1127-1145.	3.3	33
22	Kinetic study of A $\beta$ (1-42) amyloidosis in the presence of ganglioside-containing vesicles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110615.	5.0	32
23	Dipeptide-Based Carbohydrate Receptors and Polymers for Glycopeptide Enrichment and Glycan Discrimination. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22084-22092.	8.0	31
24	Sialic Acid-Targeted Biointerface Materials and Bio-Applications. <i>Polymers</i> , 2017, 9, 249.	4.5	24
25	Developing an Inositol-Phosphate-Actuated Nanochannel System by Mimicking Biological Calcium Ion Channels. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32554-32564.	8.0	23
26	Olanzapine-induced endoplasmic reticulum stress and inflammation in the hypothalamus were inhibited by an ER stress inhibitor 4-phenylbutyrate. <i>Psychoneuroendocrinology</i> , 2019, 104, 286-299.	2.7	23
27	Au <sub>23</sub> (CR) <sub>14</sub> nanocluster restores fibril A $\beta$ 's unfolded state with abolished cytotoxicity and dissolves endogenous A $\beta$ plaques. <i>National Science Review</i> , 2020, 7, 763-774.	9.5	21
28	Sigma-2 Receptor: A Potential Target for Cancer/Alzheimer's Disease Treatment via Its Regulation of Cholesterol Homeostasis. <i>Molecules</i> , 2020, 25, 5439.	3.8	21
29	Exploring the role of molecular chirality in the photo-responsiveness of dipeptide-based gels. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3163-3171.	5.8	20
30	Self-assembled chiral materials from achiral components or racemates. <i>European Polymer Journal</i> , 2019, 118, 365-381.	5.4	20
31	Chiral HgS quantum dots: Aqueous synthesis, optical properties and cytocompatibility. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 422-430.	9.4	20
32	Surface Stiffness: A Parameter for Sensing the Chirality of Saccharides. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27223-27233.	8.0	19
33	Stereoselective One-Pot Sequential Dehydrochlorination/ <i>trans</i> -Hydrofluorination Reaction of $\beta$ -Chloro- $\alpha,\beta$ -Unsaturated Aldehydes or Ketones: Facile Access to ( <i>Z</i> )- $\beta$ -Fluoro- $\alpha$ -arylenals/ $\beta$ -Fluoro- $\alpha$ -arylenones. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 4348-4358.	4.3	18
34	Cichoric acid from witloof inhibit misfolding aggregation and fibrillation of hIAPP. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 1272-1279.	7.5	16
35	Optimal route of gold nanoclusters administration in mice targeting Parkinson's disease. <i>Nanomedicine</i> , 2020, 15, 563-580.	3.3	15
36	cAMP-modulated biomimetic ionic nanochannels based on a smart polymer. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3710-3715.	5.8	14

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37	A Lysosome-Targeting Self-Condensation Prodrug-Nanoplatfom System for Addressing Drug Resistance of Cancer. <i>Nano Letters</i> , 2022, 22, 3983-3992.	9.1	14
38	A novel aggregation-induced emission enhancement triggered by the assembly of a chiral gelator: from non-emissive nanofibers to emissive micro-loops. <i>Chemical Communications</i> , 2017, 53, 447-450.	4.1	13
39	Nanoprobe-mediated precise imaging and therapy of glioma. <i>Nanoscale Horizons</i> , 2021, 6, 634-650.	8.0	12
40	Chemical compositions and pharmacological activities of natural musk ( <i>Moschus</i> ) and artificial musk: A review. <i>Journal of Ethnopharmacology</i> , 2022, 284, 114799.	4.1	12
41	Disaccharide-driven transition of macroscopic properties: from molecular recognition to glycopeptide enrichment. <i>Chemical Communications</i> , 2015, 51, 16111-16114.	4.1	11
42	Rapid and high-efficiency discrimination of different sialic acid species using dipeptide-based fluorescent sensors. <i>Analyst</i> , 2017, 142, 3564-3568.	3.5	11
43	A biomimetic design for a sialylated, glycan-specific smart polymer. <i>NPG Asia Materials</i> , 2018, 10, e472-e472.	7.9	11
44	Ultrasml copper nanoclusters with multi-enzyme activities. <i>RSC Advances</i> , 2021, 11, 14517-14526.	3.6	11
45	A high-tap-density nanosphere-assembled microcluster to simultaneously enable high gravimetric, areal and volumetric capacities: a case study of TiO <sub>2</sub> anode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11916-11928.	10.3	10
46	Binding between Prion Protein and A $\beta$ Oligomers Contributes to the Pathogenesis of Alzheimer's Disease. <i>Virologica Sinica</i> , 2019, 34, 475-488.	3.0	10
47	Isomeric Effect of Nano-Inhibitors on A $\beta$ Fibrillation at The Nano-Bio Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4894-4904.	8.0	10
48	Olanzapine-Induced Activation of Hypothalamic Astrocytes and Toll-Like Receptor-4 Signaling via Endoplasmic Reticulum Stress Were Related to Olanzapine-Induced Weight Gain. <i>Frontiers in Neuroscience</i> , 2020, 14, 589650.	2.8	10
49	Mechanisms of Pannexin 1 (PANX1) Channel Mechanosensitivity and Its Pathological Roles. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1523.	4.1	10
50	Charge effects at nano-bio interfaces: a model of charged gold nanoclusters on amylin fibrillation. <i>Nanoscale</i> , 2020, 12, 18834-18843.	5.6	9
51	Chiral Gold Nanoclusters: A New Near-Infrared Fluorescent Probe. <i>Acta Chimica Sinica</i> , 2016, 74, 363.	1.4	9
52	Magnetic immobilization of a quorum sensing signal hydrolase, AiiA. <i>MicrobiologyOpen</i> , 2019, 8, e00797.	3.0	8
53	Circuit Mechanisms of L-DOPA-Induced Dyskinesia (LID). <i>Frontiers in Neuroscience</i> , 2021, 15, 614412.	2.8	8
54	Tuning Chirality Transfer and Amplification of Supraparticles via Solvent Inducing Self-Aggregation of Chiral Gold Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24973-24978.	3.1	7

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55	A fluorescent nanoprobe based on HgS/ZnS core/shell quantum dots for in-situ rapid visual detection of Cr <sup>3+</sup> . <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	7
56	Preparation, pharmacokinetic and application of gold nanoclusters (AuNCs) in tumor treatment. <i>Current Medicinal Chemistry</i> , 2021, 28, 6990-7005.	2.4	7
57	Smart polymers driven by multiple and tunable hydrogen bonds for intact phosphoprotein enrichment. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 858-869.	6.1	6
58	Thiolate Etching Route for the Ripening of Uniform Ag <sub>2</sub> Te Quantum Dots Emitting in the Second Near-Infrared Window: Implication for Noninvasive <i>In Vivo</i> Imaging. <i>ACS Applied Nano Materials</i> , 2022, 5, 3415-3421.	5.0	6
59	Chiral effect on A $\beta$ fibrillation from molecular-scale to nanoscale. <i>Nano Research</i> , 2022, 15, 6721-6729.	10.4	6
60	High efficiency and related mechanism of Au(RC) nanoclusters on disaggregating A $\beta$ fibrils. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 67-76.	9.4	5
61	NLRP3/Caspase-1-Mediated Pyroptosis of Astrocytes Induced by Antipsychotics Is Inhibited by a Histamine H1 Receptor-Selective Agonist. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, .	3.4	5
62	Synthesis of Polysubstituted 2-Hydroxy-2-pyrans or Phenols via One-Pot Reaction of (E)-Chlorovinyl Ketones and Electron-Withdrawing Group Substituted Acetates or Diketones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 1976-1986.	2.4	4
63	Engineering Nanointerfaces of Au <sub>25</sub> Clusters for Chaperone-Mediated Peptide Amyloidosis. <i>Nano Letters</i> , 2022, 22, 2964-2970.	9.1	4
64	Gold nanoclusters eliminate obesity induced by antipsychotics. <i>Scientific Reports</i> , 2022, 12, 5502.	3.3	3
65	Enhanced delivery of theranostic liposomes through NO-mediated tumor microenvironment remodeling. <i>Nanoscale</i> , 2022, 14, 7473-7479.	5.6	3
66	Mixed-solvent precipitation: A facile approach for nanoparticle self-assembled monolayers. <i>Applied Surface Science</i> , 2019, 465, 526-531.	6.1	2
67	Applications of Gold Nanoparticles in Brain Diseases across the Blood-Brain Barrier. <i>Current Medicinal Chemistry</i> , 2022, 29, 6063-6083.	2.4	2
68	Conformational Preferences of Allene Ketones in Lewis Base Catalysis: Synthesis of 4-Hydroxy-3,4-dihydro-2H-pyrans and Regioselective [4+2] Annulation of Substituted Allene Ketones and Activated Alkenes. <i>Asian Journal of Organic Chemistry</i> , 0, , .		1