Taolei Sun

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3993100/publications.pdf

Version: 2024-02-01

68 papers	2,563 citations	257450 24 h-index	197818 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. Chemical Society Reviews, 2011, 40, 2909.	38.1	248
2	Biomimetic Smart Interface Materials for Biological Applications. Advanced Materials, 2011, 23, H57-77.	21.0	242
3	Chiral biointerface materials. Chemical Society Reviews, 2012, 41, 1972-1984.	38.1	181
4	Singlet Fission: Progress and Prospects in Solar Cells. Advanced Materials, 2017, 29, 1601652.	21.0	158
5	Stereospecific Interaction between Immune Cells and Chiral Surfaces. Journal of the American Chemical Society, 2007, 129, 1496-1497.	13.7	135
6	The size-effect of gold nanoparticles and nanoclusters in the inhibition of amyloid-Î² fibrillation. Nanoscale, 2017, 9, 4107-4113.	5.6	126
7	Chiral Effect at Protein/Graphene Interface: A Bioinspired Perspective To Understand Amyloid Formation. Journal of the American Chemical Society, 2014, 136, 10736-10742.	13.7	105
8	Gold nanoclusters for Parkinson's disease treatment. Biomaterials, 2019, 194, 36-46.	11.4	99
9	Chiralityâ€Triggered Wettability Switching on a Smart Polymer Surface. Advanced Materials, 2011, 23, 1615-1620.	21.0	84
10	Solventâ€Driven Chiralâ€Interaction Reversion for Organogel Formation. Angewandte Chemie - International Edition, 2014, 53, 2124-2129.	13.8	71
11	Hydrogen bond based smart polymer for highly selective and tunable capture of multiply phosphorylated peptides. Nature Communications, 2017, 8, 461.	12.8	71
12	A phosphorescent probe for in vivo imaging in the second near-infrared window. Nature Biomedical Engineering, 2022, 6, 629-639.	22.5	67
13	New Opportunities and Challenges of Smart Polymers in Postâ€Translational Modification Proteomics. Advanced Materials, 2017, 29, 1604670.	21.0	62
14	The transformation of chiral signals into macroscopic properties of materials using chirality-responsive polymers. NPG Asia Materials, 2012, 4, e4-e4.	7.9	54
15	Saccharide-sensitive wettability switching on a smart polymer surface. Soft Matter, 2009, 5, 2759.	2.7	49
16	Chiralityâ€Assisted Ringâ€Like Aggregation of AÎ²(1â€“40) at Liquidâ€“Solid Interfaces: A Stereoselective Twoâ€Step Assembly Process. Angewandte Chemie - International Edition, 2015, 54, 2245-2250.	13.8	47
17	High-Efficiency Phosphopeptide and Glycopeptide Simultaneous Enrichment by Hydrogen Bondâ€“based Bifunctional Smart Polymer. Analytical Chemistry, 2020, 92, 6269-6277.	6.5	42
18	Click Reaction for Reversible Encapsulation of Single Yeast Cells. ACS Nano, 2019, 13, 14459-14467.	14.6	41

#	Article	IF	Citations
19	Chiralityâ€Ðriven Wettability Switching and Mass Transfer. Angewandte Chemie - International Edition, 2014, 53, 930-932.	13.8	39
20	The Roles of Intracellular Chaperone Proteins, Sigma Receptors, in Parkinsonâ€™s Disease (PD) and Major Depressive Disorder (MDD). Frontiers in Pharmacology, 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. Nanomedicine, 2020, 15, 1127-1145.	3.3	33
22	Kinetic study of AÎ²(1-42) amyloidosis in the presence of ganglioside-containing vesicles. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110615.	5.0	32
23	Dipeptide-Based Carbohydrate Receptors and Polymers for Glycopeptide Enrichment and Glycan Discrimination. ACS Applied Materials & Interfaces, 2016, 8, 22084-22092.	8.0	31
24	Sialic Acid-Targeted Biointerface Materials and Bio-Applications. Polymers, 2017, 9, 249.	4.5	24
25	Developing an Inositol-Phosphate-Actuated Nanochannel System by Mimicking Biological Calcium Ion Channels. ACS Applied Materials & Interfaces, 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. Psychoneuroendocrinology, 2019, 104, 286-299.	2.7	23
27	Au23(CR)14 nanocluster restores fibril AÎ²â€™s unfolded state with abolished cytotoxicity and dissolves endogenous AÎ² plaques. National Science Review, 2020, 7, 763-774.	9.5	21
28	Sigma-2 Receptorâ€”A Potential Target for Cancer/Alzheimerâ€™s Disease Treatment via Its Regulation of Cholesterol Homeostasis. Molecules, 2020, 25, 5439.	3.8	21
29	Exploring the role of molecular chirality in the photo-responsiveness of dipeptide-based gels. Journal of Materials Chemistry B, 2017, 5, 3163-3171.	5.8	20
30	Self-assembled chiral materials from achiral components or racemates. European Polymer Journal, 2019, 118, 365-381.	5.4	20
31	Chiral Î²-HgS quantum dots: Aqueous synthesis, optical properties and cytocompatibility. Journal of Colloid and Interface Science, 2019, 537, 422-430.	9.4	20
32	Surface Stiffnessâ€”a Parameter for Sensing the Chirality of Saccharides. ACS Applied Materials & Interfaces, 2015, 7, 27223-27233.	8.0	19
33	Stereoselective Oneâ€Pot Sequential Dehydrochlorination/transâ€Hydrofluorination Reaction of Î²â€Chloroâ€Î±,Î²â€unsaturated Aldehydes or Ketones: Facile Access to (Z)â€Î²â€Fluoroâ€Î²â€arylenals/Î²â€Fluoroâ€Î²â€arylenones. Advanced Synthesis and Catalysis, 2017, 359, 4348-4358.	4.3	18
34	Cichoric acid from witloof inhibit misfolding aggregation and fibrillation of hIAPP. International Journal of Biological Macromolecules, 2020, 148, 1272-1279.	7.5	16
35	Optimal route of gold nanoclusters administration in mice targeting Parkinsonâ€™s disease. Nanomedicine, 2020, 15, 563-580.	3.3	15
36	cAMP-modulated biomimetic ionic nanochannels based on a smart polymer. Journal of Materials Chemistry B, 2019, 7, 3710-3715.	5.8	14

#	Article	IF	Citations
37	A Lysosome-Targeting Self-Condensation Prodrug-Nanoplatform System for Addressing Drug Resistance of Cancer. Nano Letters, 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. Chemical Communications, 2017, 53, 447-450.	4.1	13
39	Nanoprobe-mediated precise imaging and therapy of glioma. Nanoscale Horizons, 2021, 6, 634-650.	8.0	12
40	Chemical compositions and pharmacological activities of natural musk (Moschus) and artificial musk: A review. Journal of Ethnopharmacology, 2022, 284, 114799.	4.1	12
41	Disaccharide-driven transition of macroscopic properties: from molecular recognition to glycopeptide enrichment. Chemical Communications, 2015, 51, 16111-16114.	4.1	11
42	Rapid and high-efficiency discrimination of different sialic acid species using dipeptide-based fluorescent sensors. Analyst, The, 2017, 142, 3564-3568.	3.5	11
43	A biomimetic design for a sialylated, glycan-specific smart polymer. NPG Asia Materials, 2018, 10, e472-e472.	7.9	11
44	Ultrasmall copper nanoclusters with multi-enzyme activities. RSC Advances, 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 TiO₂ anode. Journal of Materials Chemistry A, 2018, 6, 11916-11928.	10.3	10
46	Binding between Prion Protein and AÎ² Oligomers Contributes to the Pathogenesis of Alzheimerâ€™s Disease. Virologica Sinica, 2019, 34, 475-488.	3.0	10
47	Isomeric Effect of Nano-Inhibitors on AÎ²₄₀ Fibrillation at The Nano-Bio Interface. ACS Applied Materials & Interfaces, 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. Frontiers in Neuroscience, 2020, 14, 589650.	2.8	10
49	Mechanisms of Pannexin 1 (PANX1) Channel Mechanosensitivity and Its Pathological Roles. International Journal of Molecular Sciences, 2022, 23, 1523.	4.1	10
50	Charge effects at nano-bio interfaces: a model of charged gold nanoclusters on amylin fibrillation. Nanoscale, 2020, 12, 18834-18843.	5.6	9
51	Chiral Gold Nanoclusters: A New Near-Infrared Fluorescent Probe. Acta Chimica Sinica, 2016, 74, 363.	1.4	9
52	Magnetic immobilization of a quorum sensing signal hydrolase, AiiA. MicrobiologyOpen, 2019, 8, e00797.	3.0	8
53	Circuit Mechanisms of L-DOPA-Induced Dyskinesia (LID). Frontiers in Neuroscience, 2021, 15, 614412.	2.8	8
54	Tuning Chirality Transfer and Amplification of Supraparticles via Solvent Inducing Self-Aggregation of Chiral Gold Nanoclusters. Journal of Physical Chemistry C, 2019, 123, 24973-24978.	3.1	7

#	Article	IF	Citations
55	A fluorescent nanoprobe based on HgS/ZnS core/shell quantum dots for in-situ rapid visual detection of Cr3+. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	7
56	Preparation, pharmacokinetic and application of gold nanoclusters (AuNCs) in tumor treatment. Current Medicinal Chemistry, 2021, 28, 6990-7005.	2.4	7
57	Smart polymers driven by multiple and tunable hydrogen bonds for intact phosphoprotein enrichment. Science and Technology of Advanced Materials, 2019, 20, 858-869.	6.1	6
58	Thiolate Etching Route for the Ripening of Uniform Ag₂Te Quantum Dots Emitting in the Second Near-Infrared Window: Implication for Noninvasive In Vivo Imaging. ACS Applied Nano Materials, 2022, 5, 3415-3421.	5.0	6
59	Chiral effect on Aî² fibrillation from molecular-scale to nanoscale. Nano Research, 2022, 15, 6721-6729.	10.4	6
60	High efficiency and related mechanism of Au(RC) nanoclusters on disaggregating Aî² fibrils. Journal of Colloid and Interface Science, 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. Frontiers in Aging Neuroscience, 2022, 14, .	3.4	5
62	Synthesis of Polysubstituted 2Hâ€Pyranâ€2â€ones or Phenols via Oneâ€Pot Reaction of (E)â€Î²â€Chlorovinyl Ketones and Electronâ€Withdrawing Group Substituted Acetates or Î²â€Diketones. European Journal of Organic Chemistry, 2020, 2020, 1976-1986.	2.4	4
63	Engineering Nanointerfaces of Au₂₅ Clusters for Chaperone-Mediated Peptide Amyloidosis. Nano Letters, 2022, 22, 2964-2970.	9.1	4
64	Gold nanoclusters eliminate obesity induced by antipsychotics. Scientific Reports, 2022, 12, 5502.	3.3	3
65	Enhanced delivery of theranostic liposomes through NO-mediated tumor microenvironment remodeling. Nanoscale, 2022, 14, 7473-7479.	5.6	3
66	Mixed-solvent precipitation: A facile approach for nanoparticle self-assembled monolayers. Applied Surface Science, 2019, 465, 526-531.	6.1	2
67	Applications of Gold Nanoparticles in Brain Diseases across the Blood-Brain Barrier. Current Medicinal Chemistry, 2022, 29, 6063-6083.	2.4	2
68	Conformational PreferencesÂof Allene Ketones in Lewis Base Catalysis: Synthesis of 4Hâ€Pyrans and 3,4â€Dihydroâ€2Hâ€pyrans viaÎ±â€Regioselective [4+2] AnnulationÂof Î³â€Substituted Allene Ketones and Activated Alkenes. Asian Journal of Organic Chemistry, 0, , .	2.7	1