Tao Zhang

List of Publications by Year
in descending order

24 papers	1,374 citations	471509 17 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	725 citing authors

#	Article	IF	Citations
1	Design, fabrication and applications of tetrahedral DNA nanostructure-based multifunctional complexes in drug delivery and biomedical treatment. Nature Protocols, 2020, 15, 2728-2757.	12.0	211
2	Biomimetic Nanoerythrosomeâ€Coated Aptamerâ€“DNA Tetrahedron/Maytansine Conjugates: pHâ€Responsive and Targeted Cytotoxicity for HER2â€Positive Breast Cancer. Advanced Materials, 2022, 34, e2109609.	21.0	158
3	Functionalizing Framework Nucleicâ€Acidâ€Based Nanostructures for Biomedical Application. Advanced Materials, 2022, 34, e2107820.	21.0	148
4	Anti-inflammatory and Antioxidative Effects of Tetrahedral DNA Nanostructures via the Modulation of Macrophage Responses. ACS Applied Materials & Interfaces, 2018, 10, 3421-3430.	8.0	121
5	Advances in biological applications of self-assembled DNA tetrahedral nanostructures. Materials Today, 2019, 24, 57-68.	14.2	114
6	Tetrahedral DNA Nanostructure: A Potential Promoter for Cartilage Tissue Regeneration via Regulating Chondrocyte Phenotype and Proliferation. Small, 2017, 13, 1602770.	10.0	83
7	Enhanced Efficacy of Temozolomide Loaded by a Tetrahedral Framework DNA Nanoparticle in the Therapy for Glioblastoma. ACS Applied Materials & Interfaces, 2019, 11, 39525-39533.	8.0	67
8	Synthesis of an ethyleneimine/tetrahedral DNA nanostructure complex and its potential application as a multi-functional delivery vehicle. Nanoscale, 2017, 9, 18402-18412.	5.6	62
9	Effects of tetrahedral DNA nanostructures on autophagy in chondrocytes. Chemical Communications, 2018, 54, 1327-1330.	4.1	62
10	Neuroprotective Effect of Tetrahedral DNA Nanostructures in a Cell Model of Alzheimerâ€™s Disease. ACS Applied Materials & Interfaces, 2018, 10, 23682-23692.	8.0	56
11	Erythromycin loaded by tetrahedral framework nucleic acids are more antimicrobial sensitive against Escherichia coli (E. coli). Bioactive Materials, 2021, 6, 2281-2290.	15.6	49
12	Therapeutic siCCR2 Loaded by Tetrahedral Framework DNA Nanorobotics in Therapy for Intracranial Hemorrhage. Advanced Functional Materials, 2021, 31, 2101435.	14.9	46
13	Tetrahedral DNA Nanomaterial Regulates the Biological Behaviors of Adipose-Derived Stem Cells via DNA Methylation on Dlg3. ACS Applied Materials & Interfaces, 2018, 10, 32017-32025.	8.0	37
14	PEGylated Protamine-Based Adsorbing Improves the Biological Properties and Stability of Tetrahedral Framework Nucleic Acids. ACS Applied Materials & Interfaces, 2019, 11, 27588-27597.	8.0	35
15	Progress in Biomedical Applications of Tetrahedral Framework Nucleic Acid-Based Functional Systems. ACS Applied Materials & Interfaces, 2020, 12, 47115-47126.	8.0	33
16	Simulation and design microreactor configured with micromixers to intensify the isobutane/1-butene alkylation process. Journal of the Taiwan Institute of Chemical Engineers, 2019, 98, 53-62.	5.3	23
17	Intensification of the liquid side mass transfer in double-side falling film microchannels by micro-mixing structures. Chemical Engineering Science, 2019, 193, 264-275.	3.8	20
18	Investigation of the liquid film thickness in an open-channel falling film micro-reactor by a stereo digital microscopy. Journal of the Taiwan Institute of Chemical Engineers, 2019, 98, 27-36.	5.3	12

#	Article	IF	Citations
19	Mass transfer and droplet formation regime in a countercurrent mini-channel extractor. Chemical Engineering Journal, 2020, 402, 125383.	12.7	12
20	Simulation of the hydrodynamics and mass transfer in a falling film wavy microchannel. Chinese Journal of Chemical Engineering, 2021, 34, 97-105.	3.5	10
21	Intensification of isobutane/1-butene alkylation process in a micromixing microreactor catalyzed by ILs/H2SO4. Chemical Engineering and Processing: Process Intensification, 2022, 174, 108865.	3.6	8
22	Reaction Performance and Flow Behavior of Isobutane/1-Butene and H₂SO₄ in the Microreactor Configured with the Micro-mixer. Industrial & Engineering Chemistry Research, 2022, 61, 9122-9135.	3.7	4
23	Flow Behavior in a Counter-Current Mini-Channel Extractor. Industrial & Engineering Chemistry Research, 2021, 60, 18490-18500.	3.7	3
24	Surface Tension and Viscosity of Ternary Mixtures of N-Methyldiethanolamine + Sulfolane + Water. Journal of Chemical & Engineering Data, 0, , .	1.9	0