

Qi Xiao

List of Publications by Year in descending order

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49
papers

2,202
citations

196777

29
h-index

252626

46
g-index

50
all docs

50
docs citations

50
times ranked

3027
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-assembly of liposomes, Dendrimersomes, and Polymersomes with amphiphilic Janus dendrimers conjugated to Mono- and Tris-Nitrilotriacetic Acid (NTA, TrisNTA) enhances protein recruitment. <i>Giant</i> , 2022, 9, 100089.	2.5	17
2	The Unexpected Importance of the Primary Structure of the Hydrophobic Part of One-Component Ionizable Amphiphilic Janus Dendrimers in Targeted mRNA Delivery Activity. <i>Journal of the American Chemical Society</i> , 2022, 144, 4746-4753.	6.6	43
3	Enhancing conformational flexibility of dendronized triphenylene via diethylene glycol linkers lowers transitions of helical columnar, Frank-Kasper, and quasicrystal phases. <i>Giant</i> , 2022, 10, 100098.	2.5	9
4	Conformationally flexible dendronized cyclotetrameratrylenes (CTTV)s self-organize a large diversity of chiral columnar, Frank-Kasper and quasicrystal phases. <i>Giant</i> , 2022, 10, 100096.	2.5	12
5	Molecular parameters including fluorination program order during hierarchical helical self-organization of self-assembling dendrons. <i>Giant</i> , 2022, 11, 100103.	2.5	10
6	Unraveling topology-induced shape transformations in dendrimersomes. <i>Soft Matter</i> , 2021, 17, 254-267.	1.2	18
7	Probing sulfatide-tissue lectin recognition with functionalized glycodendrimersomes. <i>IScience</i> , 2021, 24, 101919.	1.9	17
8	Enhanced Concanavalinâ€¦A Binding to Preorganized Mannose Nanoarrays in Glycodendrimersomes Revealed Multivalent Interactions. <i>Angewandte Chemie</i> , 2021, 133, 8433-8441.	1.6	0
9	Helical Self-Organizations and Emerging Functions in Architectures, Biological and Synthetic Macromolecules. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 900-928.	2.0	72
10	Enhanced Concanavalinâ€¦A Binding to Preorganized Mannose Nanoarrays in Glycodendrimersomes Revealed Multivalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8352-8360.	7.2	31
11	Self-organisation of rhombitruncated cuboctahedral hexagonal columns from an amphiphilic Janus dendrimer. <i>Molecular Physics</i> , 2021, 119, .	0.8	13
12	The legacy of Rosalind E. Franklin: Landmark contributions to two Nobel Prizes. <i>CheM</i> , 2021, 7, 529-536.	5.8	15
13	One-Component Multifunctional Sequence-Defined Ionizable Amphiphilic Janus Dendrimer Delivery Systems for mRNA. <i>Journal of the American Chemical Society</i> , 2021, 143, 12315-12327.	6.6	66
14	Helical Chirality of Supramolecular Columns and Spheres Selfâ€Organizes Complex Liquid Crystals, Crystals, and Quasicrystals. <i>Israel Journal of Chemistry</i> , 2021, 61, 530-556.	1.0	38
15	Targeted Delivery of mRNA with One-Component Ionizable Amphiphilic Janus Dendrimers. <i>Journal of the American Chemical Society</i> , 2021, 143, 17975-17982.	6.6	48
16	Self-Organization of Rectangular Bipyramidal Helical Columns by Supramolecular Orientational Memory Epitaxially Nucleated from a Frank-Kasper Îf Phase. <i>Giant</i> , 2021, , 100084.	2.5	21
17	Perfecting self-organization of covalent and supramolecular mega macromolecules via sequence-defined and monodisperse components. <i>Polymer</i> , 2020, 211, 123252.	1.8	11
18	Monodisperse Macromolecules by Self-Interrupted Living Polymerization. <i>Journal of the American Chemical Society</i> , 2020, 142, 15265-15270.	6.6	37

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19	From organic chemistry to chemical biology via macromolecules with Hermann Staudinger. <i>Giant</i> , 2020, 4, 100036.	2.5	6
20	The Legacy of Hermann Staudinger: Covalently Linked Macromolecules. <i>CheM</i> , 2020, 6, 2855-2861.	5.8	11
21	Nanovesicles displaying functional linear and branched oligomannose self-assembled from sequence-defined Janus glycodendrimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11931-11939.	3.3	37
22	Direct Visualization of Vesicle Disassembly and Reassembly Using Photocleavable Dendrimers Elucidates Cargo Release Mechanisms. <i>ACS Nano</i> , 2020, 14, 7398-7411.	7.3	27
23	Supramolecular spheres assembled from covalent and supramolecular dendritic crowns dictate the supramolecular orientational memory effect mediated by Frank-Kasper phases. <i>Giant</i> , 2020, 1, 100001.	2.5	40
24	Membrane-Mimetic Dendrimersomes Engulf Living Bacteria via Endocytosis. <i>Nano Letters</i> , 2019, 19, 5732-5738.	4.5	38
25	Encapsulation of hydrophobic components in dendrimersomes and decoration of their surface with proteins and nucleic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15378-15385.	3.3	41
26	Supramolecular Spheres Self-Assembled from Conical Dendrons Are Chiral. <i>Journal of the American Chemical Society</i> , 2019, 141, 6162-6166.	6.6	42
27	Design-functionality relationships for adhesion/growth-regulatory galectins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2837-2842.	3.3	57
28	Encoding biological recognition in a bicomponent cell-membrane mimic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5376-5382.	3.3	51
29	Bioactive cell-like hybrids from dendrimersomes with a human cell membrane and its components. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 744-752.	3.3	49
30	Screening Libraries of Amphiphilic Janus Dendrimers Based on Natural Phenolic Acids to Discover Monodisperse Unilamellar Dendrimersomes. <i>Biomacromolecules</i> , 2019, 20, 712-727.	2.6	36
31	Dendrimersomes Exhibit Lamellar-to-Sponge Phase Transitions. <i>Langmuir</i> , 2018, 34, 5527-5534.	1.6	16
32	Exploring functional pairing between surface glycoconjugates and human galectins using programmable glycodendrimersomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2509-E2518.	3.3	71
33	Dumbbell-Shaped Janus Dendrimersomes Exhibit Lamellar to Sponge Phase Transitions. <i>Biophysical Journal</i> , 2018, 114, 272a-273a.	0.2	1
34	Mimicking Complex Biological Membranes and Their Programmable Glycan Ligands with Dendrimersomes and Glycodendrimersomes. <i>Chemical Reviews</i> , 2017, 117, 6538-6631.	23.0	146
35	Reaction of a Programmable Glycan Presentation of Glycodendrimersomes and Cells with Engineered Human Lectins To Show the Sugar Functionality of the Cell Surface. <i>Angewandte Chemie</i> , 2017, 129, 14869-14873.	1.6	4
36	Reaction of a Programmable Glycan Presentation of Glycodendrimersomes and Cells with Engineered Human Lectins To Show the Sugar Functionality of the Cell Surface. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14677-14681.	7.2	41

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37	Energetics of Baird aromaticity supported by inversion of photoexcited chiral [4n]annulene derivatives. <i>Nature Communications</i> , 2017, 8, 346.	5.8	86
38	Janus dendrimersomes coassembled from fluorinated, hydrogenated, and hybrid Janus dendrimers as models for cell fusion and fission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7045-E7053.	3.3	200
39	Why Do Membranes of Some Unhealthy Cells Adopt a Cubic Architecture?. <i>ACS Central Science</i> , 2016, 2, 943-953.	5.3	37
40	Self-Sorting and Coassembly of Fluorinated, Hydrogenated, and Hybrid Janus Dendrimers into Dendrimersomes. <i>Journal of the American Chemical Society</i> , 2016, 138, 12655-12663.	6.6	83
41	Bioactive cell-like hybrids coassembled from (glyco)dendrimersomes with bacterial membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1134-41.	3.3	69
42	Onion-like glycodendrimersomes from sequence-defined Janus glycodendrimers and influence of architecture on reactivity to a lectin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1162-1167.	3.3	86
43	Glycodendrimersomes from Sequence-Defined Janus Glycodendrimers Reveal High Activity and Sensor Capacity for the Agglutination by Natural Variants of Human Lectins. <i>Journal of the American Chemical Society</i> , 2015, 137, 13334-13344.	6.6	87
44	Propeller-Shaped Fused Oligothiophenes: A Remarkable Effect of the Topology of Sulfur Atoms on Columnar Stacking. <i>Journal of the American Chemical Society</i> , 2013, 135, 18268-18271.	6.6	71
45	Benzothiadiazole-Based D π A π D Organic Dyes with Tunable Band Gap: Synthesis and Photophysical Properties. <i>Organic Letters</i> , 2010, 12, 4164-4167.	2.4	74
46	Star-Shaped D π A Conjugated Molecules: Synthesis and Broad Absorption Bands. <i>Organic Letters</i> , 2009, 11, 863-866.	2.4	46
47	Energy Transfer in New D π A Conjugated Dendrimers: Their Synthesis and Photophysical Properties. <i>Organic Letters</i> , 2008, 10, 4271-4274.	2.4	28
48	Molecular Wires Based on Thienylethynylene: Synthesis, Photophysical Properties, and Excited-State Lifetime. <i>Organic Letters</i> , 2008, 10, 17-20.	2.4	21
49	Gradient Shape-Persistent π -Conjugated Dendrimers for Light-Harvesting: Synthesis, Photophysical Properties, and Energy Funneling. <i>Journal of the American Chemical Society</i> , 2008, 130, 9952-9962.	6.6	122