

Chao Lang

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

848
citations

566801

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580395

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26
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26
docs citations

26
times ranked

987
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial water channels enable fast and selective water permeation through water-wire networks. <i>Nature Nanotechnology</i> , 2020, 15, 73-79.	15.6	111
2	Achieving high permeability and enhanced selectivity for Angstrom-scale separations using artificial water channel membranes. <i>Nature Communications</i> , 2018, 9, 2294.	5.8	95
3	Biomimetic Transmembrane Channels with High Stability and Transporting Efficiency from Helically Folded Macromolecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9723-9727.	7.2	78
4	Highly Selective Artificial Potassium Ion Channels Constructed from Pore-Containing Helical Oligomers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12668-12671.	7.2	68
5	Rapid fabrication of precise high-throughput filters from membrane protein nanosheets. <i>Nature Materials</i> , 2020, 19, 347-354.	13.3	59
6	Enzyme-Regulated Fast Self-Healing of a Pillararene-Based Hydrogel. <i>Biomacromolecules</i> , 2017, 18, 1885-1892.	2.6	53
7	Nanostructured block copolymer muscles. <i>Nature Nanotechnology</i> , 2022, 17, 752-758.	15.6	53
8	Design Considerations for Artificial Water Channel-Based Membranes. <i>Annual Review of Materials Research</i> , 2018, 48, 57-82.	4.3	40
9	Biomimetic Separation of Transport and Matrix Functions in Lamellar Block Copolymer Channel-Based Membranes. <i>ACS Nano</i> , 2019, 13, 8292-8302.	7.3	37
10	Highly Selective Artificial Potassium Ion Channels Constructed from Pore-Containing Helical Oligomers. <i>Angewandte Chemie</i> , 2017, 129, 12842-12845.	1.6	33
11	Semithiobambus[6]uril is a transmembrane anion transporter. <i>Chemical Communications</i> , 2017, 53, 7557-7560.	2.2	32
12	Solvent-non-solvent rapid-injection for preparing nanostructured materials from micelles to hydrogels. <i>Nature Communications</i> , 2019, 10, 3855.	5.8	30
13	A supramolecular microgel glutathione peroxidase mimic with temperature responsive activity. <i>Soft Matter</i> , 2014, 10, 3374.	1.2	23
14	Biomimetic Transmembrane Channels with High Stability and Transporting Efficiency from Helically Folded Macromolecules. <i>Angewandte Chemie</i> , 2016, 128, 9875-9879.	1.6	20
15	Construction of supramolecular polymer by enzyme-triggered covalent condensation of CB[8]-FGG-based supramonomer. <i>Chemical Communications</i> , 2016, 52, 2083-2086.	2.2	20
16	Powerful Bipodal Anion Transporters Based on Scaffolds That Contain Different Chalcogens. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6458-6465.	1.2	15
17	Selenium-containing organic nanoparticles as silent precursors for ultra-sensitive thiol-responsive transmembrane anion transport. <i>Nanoscale</i> , 2016, 8, 2960-2966.	2.8	15
18	Creating cross-linked lamellar block copolymer supporting layers for biomimetic membranes. <i>Faraday Discussions</i> , 2018, 209, 179-191.	1.6	15

#	ARTICLE	IF	CITATIONS
19	Unique selectivity trends of highly permeable PAP[5] water channel membranes. Faraday Discussions, 2018, 209, 193-204.	1.6	13
20	A smart artificial glutathione peroxidase with temperature responsive activity constructed by host-guest interaction and self-assembly. RSC Advances, 2014, 4, 25040-25050.	1.7	9
21	Influence of block sequence on the colloidal self-assembly of poly(norbornene)- <i>block</i> -poly(ethylene oxide) amphiphilic block polymers using rapid injection processing. Polymer Chemistry, 2020, 11, 375-384.	1.9	9
22	Current status and future directions of self-assembled block copolymer membranes for molecular separations. Soft Matter, 2021, 17, 10405-10415.	1.2	8
23	Single-Molecule Observation of Selenoenzyme Intermediates in a Semisynthetic Seleno- \pm -Hemolysin Nanoreactor. Analytical Chemistry, 2022, 94, 8433-8440.	3.2	6
24	Environment Responsive Hydrogels. , 2016, , 251-280.		1