

Nathalie Busschaert

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

4,298
citations

186265

28
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

3709
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving Structural Stability and Anticoagulant Activity of a Thrombin Binding Aptamer by Aromatic Modifications. <i>ChemBioChem</i> , 2022, 23, .	2.6	1
2	Managing research throughout COVID-19: Lived experiences of supramolecular chemists. <i>CheM</i> , 2022, 8, 299-311.	11.7	7
3	Bactericidal urea crown ethers target phosphatidylethanolamine membrane lipids. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3838-3843.	2.8	9
4	Increasing membrane permeability of carboxylic acid-containing drugs using synthetic transmembrane anion transporters. <i>Chemical Communications</i> , 2021, 57, 13122-13125.	4.1	3
5	A supramolecular host for phosphatidylglycerol (PG) lipids with antibacterial activity. <i>Organic and Biomolecular Chemistry</i> , 2021, , .	2.8	4
6	Enhancing the selectivity of optical sensors using synthetic transmembrane ion transporters. <i>Chemical Communications</i> , 2020, 56, 14455-14458.	4.1	10
7	Fluorinated synthetic anion carriers: experimental and computational insights into transmembrane chloride transport. <i>Chemical Science</i> , 2019, 10, 1976-1985.	7.4	29
8	Determinants of Ion-Transporter Cancer Cell Death. <i>CheM</i> , 2019, 5, 2079-2098.	11.7	73
9	Squaramide-based synthetic chloride transporters activate TFEB but block autophagic flux. <i>Cell Death and Disease</i> , 2019, 10, 242.	6.3	15
10	Anion carriers as potential treatments for cystic fibrosis: transport in cystic fibrosis cells, and additivity to channel-targeting drugs. <i>Chemical Science</i> , 2019, 10, 9663-9672.	7.4	70
11	Real-Time Recording of the Cellular Effects of the Anion Transporter Prodigiosin. <i>CheM</i> , 2018, 4, 879-895.	11.7	27
12	New Insights into the Anion Transport Selectivity and Mechanism of Trenâ€based Trisâ€(thio)ureas. <i>Chemistry - A European Journal</i> , 2018, 24, 10475-10487.	3.3	30
13	Full elucidation of the transmembrane anion transport mechanism of squaramides using <i>in silico</i> investigations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20796-20811.	2.8	23
14	A synthetic ion transporter that disrupts autophagy and induces apoptosis by perturbing cellular chloride concentrations. <i>Nature Chemistry</i> , 2017, 9, 667-675.	13.6	201
15	Dissecting the chlorideâ€nitrate anion transport assay. <i>Chemical Communications</i> , 2017, 53, 9230-9233.	4.1	39
16	An Î±-helical peptidomimetic scaffold for dynamic combinatorial library formation. <i>Chemical Communications</i> , 2017, 53, 313-316.	4.1	11
17	Chloride anion transporters inhibit growth of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) <i>in vitro</i> . <i>Chemical Communications</i> , 2016, 52, 7560-7563.	4.1	37
18	Nonprotonophoric Electrogenic Cl ⁻ Transport Mediated by Valinomycin-like Carriers. <i>CheM</i> , 2016, 1, 127-146.	11.7	128

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19	pH-Regulated Nonelectrogenic Anion Transport by Phenylthiosemicarbazones. <i>Journal of the American Chemical Society</i> , 2016, 138, 8301-8308.	13.7	75
20	QSAR analysis of substituent effects on tambjamine anion transporters. <i>Chemical Science</i> , 2016, 7, 1600-1608.	7.4	47
21	A Modular Synthesis of Conformationally Preorganised Extended Î²-Strand Peptidomimetics. <i>Chemistry - A European Journal</i> , 2015, 21, 14657-14657.	3.3	1
22	A Modular Synthesis of Conformationally Preorganised Extended Î²-Strand Peptidomimetics. <i>Chemistry - A European Journal</i> , 2015, 21, 14699-14702.	3.3	13
23	Applications of Supramolecular Anion Recognition. <i>Chemical Reviews</i> , 2015, 115, 8038-8155.	47.7	1,025
24	pH switchable anion transport by an oxothiosquaramide. <i>Chemical Communications</i> , 2015, 51, 10107-10110.	4.1	51
25	High Affinity Anion Binding by Steroidal Squaramide Receptors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4592-4596.	13.8	106
26	Dynamic Covalent Transport of Amino Acids across Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 2015, 137, 1476-1484.	13.7	54
27	Aromatic isophthalamides aggregate in lipid bilayers: evidence for a cooperative transport mechanism. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 3136-3143.	2.8	9
28	Towards the Discrimination of Carboxylates by Hydrogen Bond Donor Anion Receptors. <i>Chemistry - A European Journal</i> , 2015, 21, 5145-5160.	3.3	34
29	Tris-thiourea tripod-based molecules as chloride transmembrane transporters: insights from molecular dynamics simulations. <i>Soft Matter</i> , 2014, 10, 3608.	2.7	14
30	Anion receptor chemistry: highlights from 2011 and 2012. <i>Chemical Society Reviews</i> , 2014, 43, 205-241.	38.1	439
31	Synthetic transporters for sulfate: a new method for the direct detection of lipid bilayer sulfate transport. <i>Chemical Science</i> , 2014, 5, 1118.	7.4	95
32	An anion-binding fluorinated alcohol isophthalamide isostere. <i>RSC Advances</i> , 2014, 4, 5389.	3.6	16
33	Acylothioureas as anion transporters: the effect of intramolecular hydrogen bonding. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 62-72.	2.8	71
34	Thiosquaramides: pH switchable anion transporters. <i>Chemical Science</i> , 2014, 5, 3617-3626.	7.4	109
35	Synthetic ion transporters can induce apoptosis by facilitating chloride anion transport into cells. <i>Nature Chemistry</i> , 2014, 6, 885-892.	13.6	348
36	Accurate Method To Quantify Binding in Supramolecular Chemistry. <i>Journal of Organic Chemistry</i> , 2013, 78, 7796-7808.	3.2	27

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37	Detection of nerve agent via perturbation of supramolecular gel formation. Chemical Communications, 2013, 49, 9119.	4.1	48
38	Small Molecule Lipid Bilayer Anion Transporters for Biological Applications. Angewandte Chemie - International Edition, 2013, 52, 1374-1382.	13.8	167
39	Towards predictable transmembrane transport: QSAR analysis of anion binding and transport. Chemical Science, 2013, 4, 3036.	7.4	104
40	Squaramides as Potent Transmembrane Anion Transporters. Angewandte Chemie - International Edition, 2012, 51, 4426-4430.	13.8	222
41	Structure-Activity Relationships in Tripodal Transmembrane Anion Transporters: The Effect of Fluorination. Journal of the American Chemical Society, 2011, 133, 14136-14148.	13.7	277
42	Tripodal transmembrane transporters for bicarbonate. Chemical Communications, 2010, 46, 6252.	4.1	127
43	Pregnancy in the lab. Nature Reviews Chemistry, 0, , .	30.2	5