

George W Gokel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9093574/publications.pdf>

Version: 2024-02-01

73
papers

4,203
citations

186265

28
h-index

110387

64
g-index

76
all docs

76
docs citations

76
times ranked

3810
citing authors

#	ARTICLE	IF	CITATIONS
1	Crown ethers having side arms: a diverse and versatile supramolecular chemistry. <i>Journal of Coordination Chemistry</i> , 2021, 74, 14-39.	2.2	12
2	Bis(Tryptophan) Amphiphiles Form Ion Conducting Pores and Enhance Antimicrobial Activity against Resistant Bacteria. <i>Antibiotics</i> , 2021, 10, 1391.	3.7	0
3	Supramolecular pore formation as an antimicrobial strategy. <i>Coordination Chemistry Reviews</i> , 2020, 412, 213264.	18.8	15
4	Synthetic ionophores as non-resistant antibiotic adjuvants. <i>RSC Advances</i> , 2019, 9, 2217-2230.	3.6	17
5	Condensation of plasmid DNA by benzyl hydraphiles and lariat ethers: dependence on pH and chain length. <i>Supramolecular Chemistry</i> , 2017, 29, 167-175.	1.2	0
6	Supramolecular cation transporters alter root morphology in the <i>Arabidopsis thaliana</i> plant. <i>Inorganica Chimica Acta</i> , 2017, 468, 183-191.	2.4	1
7	Hydraphiles enhance antimicrobial potency against <i>Escherichia coli</i> , <i>Pseudomonas aeruginosa</i> , and <i>Bacillus subtilis</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2864-2870.	3.0	4
8	Reversal of Tetracycline Resistance in <i>Escherichia coli</i> by Noncytotoxic bis(Tryptophan)s. <i>Journal of the American Chemical Society</i> , 2016, 138, 10571-10577.	13.7	20
9	Antibiotic Potency against <i>E. coli</i> Is Enhanced by Channel-Forming Alkyl Lariat Ethers. <i>ChemBioChem</i> , 2016, 17, 2153-2161.	2.6	23
10	The aqueous medium-dimethylsulfoxide conundrum in biological studies. <i>RSC Advances</i> , 2015, 5, 8088-8093.	3.6	13
11	Morphologies of branched-chain pyrogallol[4]arenes in the solid state. <i>Supramolecular Chemistry</i> , 2014, 26, 506-516.	1.2	7
12	Improved Syntheses of Benzyl Hydraphile Synthetic Cation-Conducting Channels. <i>Synthesis</i> , 2014, 46, 2771-2779.	2.3	9
13	Ion transport through bilayer membranes mediated by pyrogallol[4]arenes. <i>Inorganica Chimica Acta</i> , 2014, 417, 177-185.	2.4	3
14	Hydraphile synthetic ion channels alter root architecture in <i>Arabidopsis thaliana</i> . <i>Chemical Communications</i> , 2014, 50, 11562-11564.	4.1	8
15	Synthetic Ion Channels: From Pores to Biological Applications. <i>Accounts of Chemical Research</i> , 2013, 46, 2824-2833.	15.6	229
16	Properties of long alkyl-chained resorcin[4]arenes in bilayers and on the Langmuir trough. <i>New Journal of Chemistry</i> , 2013, 37, 105-111.	2.8	3
17	Synthetic membrane active amphiphiles. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 784-796.	13.7	42
18	Pore formation in phospholipid bilayers by amphiphilic cavitands. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4498.	2.8	24

#	ARTICLE	IF	CITATIONS
19	UV resonance Raman study of cation- π interactions in an indole crown ether. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 633-638.	2.5	25
20	Alkali metal and ammonium cation- π arene interactions with tetraphenylborate anion. <i>Supramolecular Chemistry</i> , 2010, 22, 73-80.	1.2	10
21	Dianilides of dipicolinic acid function as synthetic chloride channels. <i>Chemical Communications</i> , 2010, 46, 2838.	4.1	88
22	Enhancement of antimicrobial activity by synthetic ion channel synergy. <i>Chemical Communications</i> , 2010, 46, 8166.	4.1	27
23	Pyrogallarene-based ion-conducting pores that show reversible conductance properties. <i>Chemical Communications</i> , 2009, , 6092.	4.1	23
24	Guest molecule entrapment by both capsule and hydrocarbon sidechains in self-assembled pyrogallol[4]arenes. <i>New Journal of Chemistry</i> , 2009, 33, 1563.	2.8	25
25	Transport of chloride ion through phospholipid bilayers mediated by synthetic ionophores. <i>New Journal of Chemistry</i> , 2009, 33, 947.	2.8	93
26	Coordination and transport of alkali metal cations through phospholipid bilayer membranes by hydrophile channels. <i>Coordination Chemistry Reviews</i> , 2008, 252, 886-902.	18.8	45
27	Structure and medium effects on hydrophile synthetic ion channel toxicity to the bacterium <i>E. coli</i> . <i>New Journal of Chemistry</i> , 2005, 29, 205.	2.8	22
28	Dynamic Assessment of Bilayer Thickness by Varying Phospholipid and Hydrophile Synthetic Channel Chain Lengths. <i>Journal of the American Chemical Society</i> , 2005, 127, 636-642.	13.7	62
29	Correlation of bilayer membrane cation transport and biological activity in alkyl-substituted lariat ethers. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1647.	2.8	48
30	Crown Ethers: π Sensors for Ions and Molecular Scaffolds for Materials and Biological Models. <i>Chemical Reviews</i> , 2004, 104, 2723-2750.	47.7	1,314
31	Functional, synthetic organic chemical models of cellular ion channels. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 1291-1304.	3.0	50
32	Ferrocene derivatives as receptors to explore ammonium cation- π interactions. <i>New Journal of Chemistry</i> , 2004, 28, 907-911.	2.8	15
33	The aromatic sidechains of amino acids as neutral donor groups for alkali metal cations. <i>Chemical Communications</i> , 2003, , 2847.	4.1	84
34	Some thoughts on chemistry and biology. <i>New Journal of Chemistry</i> , 2003, 27, 1157.	2.8	0
35	Replacing proline at the apex of heptapeptide-based chloride ion transporters alters their properties and their ionophoretic efficacy. <i>New Journal of Chemistry</i> , 2003, 27, 60-67.	2.8	33
36	Synthetic Hydrophile Channels of Appropriate Length Kill <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2002, 124, 9022-9023.	13.7	88

#	ARTICLE	IF	CITATIONS
37	Lariat Ether Receptor Systems Show Experimental Evidence for Alkali Metal Cation π - π Interactions. <i>Accounts of Chemical Research</i> , 2002, 35, 878-886.	15.6	226
38	Synthetic models of cation-conducting channels. <i>Chemical Society Reviews</i> , 2001, 30, 274-286.	38.1	253
39	Solid state evidence for π -complexation of sodium cation by carbon π -carbon double bonds. <i>Chemical Communications</i> , 2001, , 1858-1859.	4.1	31
40	Hydraphile Synthetic Channel Compounds: Models for Transmembrane, Cation-conducting Transporters. <i>Supramolecular Chemistry</i> , 2001, 13, 391-404.	1.2	1
41	Solid-state bilayer formation from a dialkyl-substituted lariat ether that forms stable vesicles in aqueous suspension. <i>Journal of Physical Organic Chemistry</i> , 2001, 14, 383-391.	1.9	17
42	The effect of twin π -tailed sidearms on sodium cation transport in synthetic hydraphile cation channels. <i>Journal of Heterocyclic Chemistry</i> , 2001, 38, 1393-1400.	2.6	8
43	Solid-State Evidence for Alkali Metal to Arene π -Complexation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001, 41, 7-12.	1.6	6
44	Artificial Cation-Conducting Channels: Design, Synthesis, and Characterization. <i>Cell Biochemistry and Biophysics</i> , 2001, 35, 211-231.	1.8	6
45	Sodium cation complexation in a macrocycle containing thymines as sidearm donor groups. <i>Journal of Chemical Crystallography</i> , 2000, 30, 227-231.	1.1	4
46	Synthetic, Sodium-Ion-Conducting Tris(Macrocycle) Channels that Function in a Phospholipid Bilayer Membrane: An Overview. <i>Supramolecular Chemistry</i> , 2000, 12, 13-22.	1.2	1
47	Enhancement of cation transport in synthetic hydraphile channels having covalently-linked headgroups. <i>Chemical Communications</i> , 2000, , 2373-2374.	4.1	20
48	The central π -relay π unit in hydraphile channels as a model for the water-and-ion π -capsule π of channel proteins. <i>Chemical Communications</i> , 2000, , 2371-2372.	4.1	31
49	Pyxophanes: selective gas phase ion complexation by 1,6,13,18-tetraoxa[6.6]paracyclophane-3,15-diyne. <i>Chemical Communications</i> , 2000, , 2377-2378.	4.1	9
50	Aggregate formation from 3-alkylindoles: amphiphilic models for interfacial helix anchoring groups. <i>Chemical Communications</i> , 2000, , 433-434.	4.1	11
51	Evidence for multiple alkali metal cation complexation in membrane-spanning ion transporters. <i>Chemical Communications</i> , 2000, , 2375-2376.	4.1	11
52	Hydraphiles: design, synthesis and analysis of a family of synthetic, cation-conducting channels. <i>Chemical Communications</i> , 2000, , 1-9.	4.1	99
53	<i>N,N</i> -Didansyl-4,13-diaza-18-Crown-6: A Fluorescence-sensitive, Weakly Complexing Macrocycle Used to Probe the Phospholipid Vesicle Environment. <i>Supramolecular Chemistry</i> , 1999, 10, 163-171.	1.2	7
54	Cation- π Complexation of Potassium Cation with the Phenolic Sidechain of Tyrosine. <i>Journal of the American Chemical Society</i> , 1999, 121, 8405-8406.	13.7	72

#	ARTICLE	IF	CITATIONS
55	A novel oxazine from the condensation of chloroanthraquinone and t-butyl L-prolinate. <i>Journal of Chemical Crystallography</i> , 1998, 28, 47-51.	1.1	0
56	Structure of N-myristoyltransferase with bound myristoylCoA and peptide substrate analogs. <i>Nature Structural Biology</i> , 1998, 5, 1091-1097.	9.7	118
57	A Synthetic Cation-Transporting Calix[4]arene Derivative Active in Phospholipid Bilayers. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1534-1537.	13.8	68
58	A Redox-switchable Molecular Receptor Based on Anthraquinone. <i>Supramolecular Chemistry</i> , 1998, 9, 199-202.	1.2	7
59	Steroidal Aza-Lariat Ethers: Syntheses and Aggregation Behavior. <i>Supramolecular Chemistry</i> , 1997, 8, 213-223.	1.2	4
60	REDOX-SWITCHED AMPHIPHILES: OXIDIZED FERROCENE DERIVATIVES FORM STABLE VESICLES WHEN EITHER ONE OR TWO ALKYL TAILS ARE PRESENT. <i>Journal of Physical Organic Chemistry</i> , 1997, 10, 323-334.	1.9	23
61	Detection of hydrogen-bonded adenine-thymine base-pair complexes by electrospray mass spectrometry. <i>Supramolecular Chemistry</i> , 1996, 7, 85-90.	1.2	8
62	Molekulare Erkennung an Grenzflächen: Bindung von Ferrocenylgruppen, die in einer Monoschicht verankert sind, durch eine amphiphile Calixaren-Wirtverbindung. <i>Angewandte Chemie</i> , 1995, 107, 236-239.	2.0	11
63	Ferrocene as a molecular building block in lariat ethers and other complexing agents. <i>Supramolecular Chemistry</i> , 1995, 6, 79-85.	1.2	10
64	Analysis of sodium, potassium, calcium, and ammonium cation binding and selectivity in one- and two-armed nitrogen-pivot lariat ethers. <i>Supramolecular Chemistry</i> , 1995, 5, 45-60.	1.2	30
65	Ulthra-thin monolayer lipid membranes from a new family of crown ether-based bola-amphiphiles. <i>Journal of the American Chemical Society</i> , 1993, 115, 1705-1711.	13.7	78
66	Lariat ether bola-amphiphiles: formation of crown ether based bola-amphiphiles. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 520-522.	2.0	19
67	MyristoylCoA:protein <i>N</i> -Myristoyltransferase: Probing Host-Guest Interactions Using Synthetic Substrates. <i>Israel Journal of Chemistry</i> , 1992, 32, 127-133.	2.3	4
68	A direct comparison of extraction and homogeneous binding constants as predictors of efficacy in alkali metal cation transport. <i>Tetrahedron Letters</i> , 1991, 32, 6269-6272.	1.4	43
69	Aggregation of steroidal lariat ethers: the first example of nonionic liposomes (niosomes) formed from neutral crown ether compounds. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 836.	2.0	58
70	Electrochemical switching of lariat ethers: enhanced cation binding by one- and two-electron reduction of an anthraquinone sidearm. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 220.	2.0	45
71	12-, 15-, and 18-Membered-ring nitrogen-pivot lariat ethers: syntheses, properties, and sodium and ammonium cation binding properties. <i>Journal of the American Chemical Society</i> , 1985, 107, 6659-6668.	13.7	193
72	Electrochemically switched cation binding in nitrobenzene-substituted, nitrogen-pivot lariat ethers. <i>Journal of the American Chemical Society</i> , 1984, 106, 1633-1635.	13.7	50

#	ARTICLE	IF	CITATIONS
73	Lariat ethers. Synthesis and cation binding of macrocyclic polyethers possessing axially disposed secondary donor groups. Journal of the Chemical Society Chemical Communications, 1980, , 1053.	2.0	139