

Simon J Webb

List of Publications by Year in descending order

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77
papers

2,175
citations

185998

28
h-index

243296

44
g-index

82
all docs

82
docs citations

82
times ranked

2376
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformational photoswitching of a synthetic peptide foldamer bound within a phospholipid bilayer. <i>Science</i> , 2016, 352, 575-580.	6.0	149
2	Enzyme-responsive hydrogel particles for the controlled release of proteins: designing peptide actuators to match payload. <i>Soft Matter</i> , 2008, 4, 821.	1.2	120
3	Ligand-modulated conformational switching in a fully synthetic membrane-bound receptor. <i>Nature Chemistry</i> , 2017, 9, 420-425.	6.6	110
4	End-to-end conformational communication through a synthetic purinergic receptor by ligand-induced helicity switching. <i>Nature Chemistry</i> , 2013, 5, 853-860.	6.6	105
5	Cooperative Binding at Lipid Bilayer Membrane Surfaces. <i>Journal of the American Chemical Society</i> , 2003, 125, 4593-4599.	6.6	97
6	Palladium(ii)-gated ion channels. <i>Chemical Communications</i> , 2008, , 4007.	2.2	89
7	The Effect of Receptor Clustering on Vesicle-Vesicle Adhesion. <i>Journal of the American Chemical Society</i> , 2006, 128, 14462-14463.	6.6	83
8	Sequence/structure relationships in aromatic dipeptide hydrogels formed under thermodynamic control by enzyme-assisted self-assembly. <i>Soft Matter</i> , 2012, 8, 5595.	1.2	82
9	Length-Dependent Formation of Transmembrane Pores by 3×10 -Helical β -Aminoisobutyric Acid Foldamers. <i>Journal of the American Chemical Society</i> , 2016, 138, 688-695.	6.6	71
10	Preparation of aminoethyl glycosides for glycoconjugation. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 699-703.	1.3	67
11	Transmembrane Signalling. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3878-3881.	7.2	61
12	Conformational Switching of a Foldamer in a Multicomponent System by pH-Filtered Selection between Competing Noncovalent Interactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 6680-6691.	6.6	60
13	Accelerated Enzymatic Galactosylation of N -Acetylglucosaminolipids in Lipid Microdomains. <i>Journal of the American Chemical Society</i> , 2012, 134, 13010-13017.	6.6	43
14	A combined SPS-LCD sensor for screening protease specificity. <i>Chemical Communications</i> , 2008, , 2861.	2.2	40
15	A modular self-assembly approach to functionalised β -sheet peptide hydrogel biomaterials. <i>Soft Matter</i> , 2016, 12, 1915-1923.	1.2	39
16	Assessing the cluster glycoside effect during the binding of concanavalin A to mannosylated artificial lipid rafts. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 5245.	1.5	38
17	A tendril perversion in a helical oligomer: trapping and characterizing a mobile screw-sense reversal. <i>Chemical Science</i> , 2017, 8, 3007-3018.	3.7	38
18	Transmembrane Ion Channels Formed by a Star of David [2]Catenane and a Molecular Pentafoil Knot. <i>Journal of the American Chemical Society</i> , 2020, 142, 18859-18865.	6.6	38

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19	Palladium(II)-Mediated Assembly of Biotinylated Ion Channels. <i>Chemistry - A European Journal</i> , 2011, 17, 3465-3473.	1.7	37
20	Synthesis and Recognition Properties of a Ruthenium(II)-Bis(zinc) Cyclic Porphyrin Trimer. <i>Inorganic Chemistry</i> , 2000, 39, 5912-5919.	1.9	36
21	Magnetically-controlled release from hydrogel-supported vesicle assemblies. <i>Chemical Communications</i> , 2009, , 2287.	2.2	35
22	Diastereotopic fluorine substituents as ¹⁹ F NMR probes of screw-sense preference in helical foldamers. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3168.	1.5	34
23	Assembling a plug-and-play production line for combinatorial biosynthesis of aromatic polyketides in <i>Escherichia coli</i> . <i>PLoS Biology</i> , 2019, 17, e3000347.	2.6	34
24	Switchable foldamer ion channels with antibacterial activity. <i>Chemical Science</i> , 2020, 11, 7023-7030.	3.7	34
25	Pd(II)-Mediated Assembly of Porphyrin Channels in Bilayer Membranes. <i>Langmuir</i> , 2011, 27, 1448-1456.	1.6	33
26	Magnetic Assembly and Patterning of Vesicle/Nanoparticle Aggregates. <i>Journal of the American Chemical Society</i> , 2007, 129, 12080-12081.	6.6	32
27	Creating Functional Vesicle Assemblies from Vesicles and Nanoparticles. <i>Pharmaceutical Research</i> , 2009, 26, 1701-1710.	1.7	30
28	Transmission of Binding Information across Lipid Bilayers. <i>Chemistry - A European Journal</i> , 2007, 13, 7215-7222.	1.7	29
29	Vesicle aggregation by multivalent ligands: relating crosslinking ability to surface affinity. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2498.	1.5	28
30	Bis-pyrene probes of foldamer conformation in solution and in phospholipid bilayers. <i>Chemical Science</i> , 2018, 9, 6860-6870.	3.7	26
31	A Tin(IV)-Ruthenium(II)-Tin(IV) Cyclic Porphyrin Trimer with Replaceable Chiral Linings. <i>Inorganic Chemistry</i> , 2000, 39, 5920-5929.	1.9	24
32	Supramolecular Approaches to Combining Membrane Transport with Adhesion. <i>Accounts of Chemical Research</i> , 2013, 46, 2878-2887.	7.6	24
33	Membrane composition determines the fate of aggregated vesicles. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 3615.	1.5	20
34	Lipid fluorination enables phase separation from fluid phospholipid bilayers. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2399.	1.5	20
35	Conversion of Magnetic Impulses into Cellular Responses by Self-Assembled Nanoparticle-Vesicle Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12290-12293.	7.2	20
36	Designing Foldamer-Foldamer Interactions in Solution: The Roles of Helix Length and Terminus Functionality in Promoting the Self-Association of Aminoisobutyric Acid Oligomers. <i>Chemistry - A European Journal</i> , 2014, 20, 15981-15990.	1.7	19

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37	Conformational analysis of helical aminoisobutyric acid (Aib) oligomers bearing C-terminal ester Schellman motifs. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4124-4131.	1.5	18
38	Optically Active Vibrational Spectroscopy of \pm -Aminoisobutyric Acid Foldamers in Organic Solvents and Phospholipid Bilayers. <i>Chemistry - A European Journal</i> , 2018, 24, 9399-9408.	1.7	18
39	Stereospecific templated synthesis of a triruthenium butadiyne-linked cyclic porphyrin trimer. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 985-990.	1.1	17
40	Participation of non-aminoisobutyric acid (Aib) residues in the 3×10 helical conformation of Aib-rich foldamers: a solid state study. <i>New Journal of Chemistry</i> , 2015, 39, 3288-3294.	1.4	17
41	Dual-action CXCR4-targeting liposomes in leukemia: function blocking and drug delivery. <i>Blood Advances</i> , 2019, 3, 2069-2081.	2.5	17
42	The Role of Terminal Functionality in the Membrane and Antibacterial Activity of Peptaibol-Mimetic Aib Foldamers. <i>Chemistry - A European Journal</i> , 2018, 24, 2249-2256.	1.7	15
43	Transmembrane Signalling. <i>Angewandte Chemie</i> , 2002, 114, 4034-4037.	1.6	14
44	Interfacing biodegradable molecular hydrogels with liquid crystals. <i>Soft Matter</i> , 2013, 9, 1188-1193.	1.2	14
45	Spatially controlled apoptosis induced by released nickel(ii) within a magnetically responsive nanostructured biomaterial. <i>Soft Matter</i> , 2013, 9, 2245.	1.2	14
46	Remote conformational responses to enantiomeric excess in carboxylate-binding dynamic foldamers. <i>Chemical Communications</i> , 2019, 55, 9331-9334.	2.2	14
47	Sialylation of lactosyl lipids in membrane microdomains by <i>T. cruzi</i> trans-sialidase. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9272-9278.	1.5	13
48	A versatile approach towards multivalent saccharide displays on magnetic nanoparticles and phospholipid vesicles. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10751-10761.	1.5	13
49	The effect of multivalent binding on the lateral phase separation of adhesive lipids. <i>Faraday Discussions</i> , 2010, 145, 219-233.	1.6	12
50	Helical peptaibol mimics are better ionophores when racemic than when enantiopure. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9580-9584.	1.5	12
51	"One-pot" sequential enzymatic modification of synthetic glycolipids in vesicle membranes. <i>Chemical Communications</i> , 2018, 54, 1347-1350.	2.2	12
52	Insight into the Mechanism of Action and Peptide-Membrane Interactions of Aib-Rich Peptides: Multitechnique Experimental and Theoretical Analysis. <i>ChemBioChem</i> , 2021, 22, 1656-1667.	1.3	11
53	Dibenzazepinyl ureas as dual NMR and CD probes of helical screw-sense preference in conformationally equilibrating dynamic foldamers. <i>Chemical Communications</i> , 2017, 53, 10768-10771.	2.2	10
54	Photo-dissociation of self-assembled (anthracene-2-carbonyl)amino acid hydrogels. <i>Chemical Communications</i> , 2020, 56, 13792-13795.	2.2	9

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55	Adhesive interactions between cells and biotinylated phospholipid vesicles in alginate: towards new responsive biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1045-1051.	1.7	8
56	A Bifunctional Spin Label for Ligand Recognition on Surfaces. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9449-9453.	7.2	8
57	Aqueous dispersions of nanostructures formed through the self-assembly of iminolipids with exchangeable hydrophobic termini. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17036-17043.	1.3	7
58	Release of proteins and enzymes from vesicular compartments by alternating magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15579-15588.	1.3	6
59	High-throughput chemical and chemoenzymatic approaches to saccharide-coated magnetic nanoparticles for MRI. <i>Nanoscale Advances</i> , 2019, 1, 3597-3606.	2.2	6
60	Bioinspired organic chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2007, 103, 392.	0.8	5
61	Enhancing cell culture in magnetic vesicle gels. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1272, 1.	0.1	5
62	Effect of varying substituent on the colour change transitions of diacetylene pigments. <i>Dyes and Pigments</i> , 2021, 192, 109397.	2.0	5
63	Bioinspired organic chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2006, 102, 377.	0.8	4
64	Bioinspired organic chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2008, 104, 370.	0.8	4
65	Synthesis and biological activity of a CXCR4-targeting bis(cyclam) lipid. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6479-6490.	1.5	3
66	Î±-Amino-Î²-butyric Acid Foldamers Terminated with Rhodium(I) N-Heterocyclic Carbene Catalysts. <i>Chemistry - A European Journal</i> , 2021, , .	1.7	3
67	Catechol-hydrazone conjugates for the rapid functionalization of magnetite nanoparticles with cell targeting groups. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1688, 1.	0.1	2
68	Magnetophoretic Behavior of 3T3 Cells Incubated with Saccharide-Coated MNPs. <i>MRS Advances</i> , 2017, 2, 1279-1284.	0.5	2
69	Synthesis and lyotropic phase behavior of novel nonionic surfactants for the crystallization of integral membrane proteins. <i>Tetrahedron Letters</i> , 2006, 47, 737-741.	0.7	1
70	Binding and Reactivity at Bilayer Membranes. <i>Advances in Physical Organic Chemistry</i> , 2013, 47, 129-183.	0.5	1
71	Fructose controlled ionophoric activity of a cholera toxin B subunit boronic acid. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2576-2583.	1.5	1
72	Targeting of a magnetic bionanomaterial to HepG2 human hepatocellular carcinoma cells using a galactose terminated lipid. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1688, 12.	0.1	1

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73	A Bifunctional Spin Label for Ligand Recognition on Surfaces. <i>Angewandte Chemie</i> , 2017, 129, 9577-9581.	1.6	1
74	Molecular Recognition by Zn(II)-Capped Dynamic Foldamers. <i>ChemistryOpen</i> , 2020, 9, 338-345.	0.9	1
75	Approaches Towards Synthetic Signal Transduction in Phospholipid Bilayers. , 2021, , 1-24.		1
76	Novel Gelation System For Fabricating 3-D Structures via Ink Jet Printing. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1239, 1.	0.1	0
77	Enzymatic elaboration of oxime-linked glycoconjugates in solution and on liposomes. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5016-5027.	2.9	0