Christopher J Serpell

List of Publications by Year in Descending Order

67 papers	2,899 citations	28 h-index	53 g-index
84 ext. papers	3,263 ext. citations	7.3 avg, IF	5.52 L-index

#	Paper	IF	Citations
67	Structural identification of individual helical amyloid filaments by integration of cryo-electron microscopy-derived maps in comparative morphometric atomic force microscopy image analysis.. *Journal of Molecular Biology*, **2022**, 434, 167466	6.5	3
66	Chiral, sequence-definable foldamer-derived macrocycles.. *Chemical Science*, **2021**, 12, 15632-15636	9.4	0
65	Himic Anhydride: A Retro Diels-Alder Reaction for the Organic Laboratory and an Accompanying NMR Study.. *Journal of Chemical Education*, **2021**, 98, 4013-4016	2.4	0
64	AgRP/NPY and POMC neurons in the arcuate nucleus and their potential role in treatment of obesity. *European Journal of Pharmacology*, **2021**, 174611	5.3	4
63	Brown/Beige adipose tissues and the emerging role of their secretory factors in improving metabolic health: The batokines. *Biochimie*, **2021**, 184, 26-39	4.6	5
62	Imidazolium-based catenane host for bromide recognition in aqueous media. *Chemical Communications*, **2021**, 57, 101-104	5.8	5
61	Molecular Mechanisms of Adipogenesis: The Anti-adipogenic Role of AMP-Activated Protein Kinase. *Frontiers in Molecular Biosciences*, **2020**, 7, 76	5.6	47
60	-Functionalised Imidazoles as Stabilisers for Metal Nanoparticles in Catalysis and Anion Binding. *ChemistryOpen*, **2020**, 9, 683-690	2.3	1
59	Sequence isomerism in uniform polyphosphoesters programmes self-assembly and folding. *Chemical Communications*, **2020**, 56, 5307-5310	5.8	7
58	Three-dimensional reconstruction of individual helical nano-filament structures from atomic force microscopy topographs. *Biomolecular Concepts*, **2020**, 11, 102-115	3.7	10
57	Mechanisms of action for the anti-obesogenic activities of phytochemicals. *Phytochemistry*, **2020**, 180, 112513	4	3
56	Thiourea and Guanidine Compounds and Their Iridium Complexes in Drug-Resistant Cancer Cell Lines: Structure-Activity Relationships and Direct Luminescent Imaging. *ChemMedChem*, **2020**, 15, 349-353	3.7	12
55	Architecture-controlled release of ibuprofen from polymeric nanoparticles. *Materials Today Communications*, **2020**, 25, 101562	2.5	2
54	Supramolecular behaviour and fluorescence of rhodamine-functionalised ROMP polymers. *Polymer Chemistry*, **2020**, 11, 5279-5285	4.9	3
53	Murine in vitro cellular models to better understand adipogenesis and its potential applications. *Differentiation*, **2020**, 115, 62-84	3.5	1
52	Quantification of amyloid fibril polymorphism by nano-morphometry reveals the individuality of filament assembly. *Communications Chemistry*, **2020**, 3,	6.3	10
51	IrIII as a strategy for preorganisation in H-bonded motifs. *Supramolecular Chemistry*, **2020**, 32, 1-12	1.8	4

50	One-step synthesis and XPS investigations of chiral NHC-Au(0)/Au(i) nanoparticles. *Nanoscale*, **2019**, 11, 8327-8333	7.7	24
49	Development of Gold-PAGE: towards the electrophoretic analysis of sulphurous biopolymers. *Journal of Materials Chemistry B*, **2019**, 7, 5156-5160	7.3	1
48	The molecular lifecycle of amyloid - Mechanism of assembly, mesoscopic organisation, polymorphism, suprastructures, and biological consequences. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2019**, 1867, 140257	4	20
47	High definition polyphosphoesters: between nucleic acids and plastics. *Polymer Chemistry*, **2018**, 9, 2210-2226	4.9	29
46	Degradable Polymers and Nanoparticles Built from Salicylic Acid. *Macromolecular Rapid Communications*, **2018**, 39, e1800182	4.8	4
45	Optically active histidin-2-ylidene stabilised gold nanoparticles. *Chemical Communications*, **2017**, 53, 12426-12429	5.6	14
44	Carbon nanotubes allow capture of krypton, barium and lead for multichannel biological X-ray fluorescence imaging. *Nature Communications*, **2016**, 7, 13118	17.4	23
43	Synergy of Two Assembly Languages in DNA Nanostructures: Self-Assembly of Sequence-Defined Polymers on DNA Cages. *Journal of the American Chemical Society*, **2016**, 138, 4416-25	16.4	74
42	Reprogramming the assembly of unmodified DNA with a small molecule. *Nature Chemistry*, **2016**, 8, 368-76	17.6	89
41	Transfer of molecular recognition information from DNA nanostructures to gold nanoparticles. *Nature Chemistry*, **2016**, 8, 162-70	17.6	172
40	Anion Recognition in Water: Recent Advances from a Supramolecular and Macromolecular Perspective. *Angewandte Chemie - International Edition*, **2016**, 55, 1974-87	16.4	289
39	Anionenerkennung in Wasser: aktuelle Fortschritte aus supramolekularer und makromolarer Sicht. *Angewandte Chemie*, **2016**, 128, 2012-2026	3.6	58
38	Can Carbon Nanotubes Deliver on Their Promise in Biology? Harnessing Unique Properties for Unparalleled Applications. *ACS Central Science*, **2016**, 2, 190-200	16.8	71
37	Cyclometalated Iridium(III) Imidazole Phenanthroline Complexes as Luminescent and Electrochemiluminescent G-Quadruplex DNA Binders. *Inorganic Chemistry*, **2015**, 54, 6958-67	5.1	34
36	An efficient and modular route to sequence-defined polymers appended to DNA. *Angewandte Chemie - International Edition*, **2014**, 53, 4567-71	16.4	107
35	Precision polymers and 3D DNA nanostructures: emergent assemblies from new parameter space. *Journal of the American Chemical Society*, **2014**, 136, 15767-74	16.4	81
34	Nucleobase peptide amphiphiles. *Materials Horizons*, **2014**, 1, 348-354	14.4	20
33	Structural Study of Triazole and Amide Containing Anion-Templated Pseudorotaxanes. *Crystal Growth and Design*, **2014**, 14, 3472-3479	3.5	11

32	An Efficient and Modular Route to Sequence-Defined Polymers Appended to DNA. *Angewandte Chemie*, **2014**, 126, 4655-4659	3.6	10
31	Titelbild: An Efficient and Modular Route to Sequence-Defined Polymers Appended to DNA (Angew. Chem. 18/2014). *Angewandte Chemie*, **2014**, 126, 4585-4585	3.6	
30	Site-specific positioning of dendritic alkyl chains on DNA cages enables their geometry-dependent self-assembly. *Nature Chemistry*, **2013**, 5, 868-75	17.6	168
29	Haloaurate and halopalladate imidazolium salts: structures, properties, and use as precursors for catalytic metal nanoparticles. *Dalton Transactions*, **2013**, 42, 1385-93	4.3	80
28	Iodo-imidazolium salts: halogen bonding in crystals and anion-templated pseudorotaxanes. *CrystEngComm*, **2013**, 15, 3076-3081	3.3	25
27	Intermolecular Interactions in Bromo-, Methyl-, and Cyanoimidazole Derivatives. *Crystal Growth and Design*, **2013**, 13, 2866-2871	3.5	12
26	Fluorogenic dansyl-ligated gold nanoparticles for the detection of sulfur mustard by displacement assay. *Chemical Communications*, **2013**, 49, 2293-5	5.8	28
25	Amide and Urea Ferrocene-Containing Macrocycles Capable of the Electrochemical Sensing of Anions. *European Journal of Inorganic Chemistry*, **2012**, 2012, 939-944	2.3	19
24	Extending the family of heteroditopic calix[4]diquinone receptors for cooperative AND ion-pair recognition. *New Journal of Chemistry*, **2012**, 36, 102-112	3.6	20
23	Solution and surface-confined chloride anion templated redox-active ferrocene catenanes. *Chemical Science*, **2012**, 3, 1080	9.4	54
22	A redox-active [3]rotaxane capable of binding and electrochemically sensing chloride and sulfate anions. *Chemical Communications*, **2011**, 47, 8775-7	5.8	63
21	A dual-functional tetrakis-imidazolium macrocycle for supramolecular assembly. *Chemical Science*, **2011**, 2, 494-500	9.4	46
20	Core@shell bimetallic nanoparticle synthesis via anion coordination. *Nature Chemistry*, **2011**, 3, 478-83	17.6	211
19	Chloride Anion Templated Synthesis and Crystal Structure of a Handcuff Catenane. *Angewandte Chemie*, **2011**, 123, 2555-2558	3.6	8
18	Chloride anion templated synthesis and crystal structure of a handcuff catenane. *Angewandte Chemie - International Edition*, **2011**, 50, 2507-10	16.4	40
17	A [2]catenane displaying pirouetting motion triggered by debenzylation and locked by chloride anion recognition. *Chemistry - A European Journal*, **2011**, 17, 7734-8	4.8	30
16	A 1,2,3,4,5-pentaphenylferrocene-stoppered rotaxane capable of electrochemical anion recognition. *Chemistry - A European Journal*, **2011**, 17, 12347-54	4.8	32
15	Investigating the imidazolium□anion interaction through the anion-templated construction of interpenetrated and interlocked assemblies. *Chemistry - A European Journal*, **2011**, 17, 12955-66	4.8	30

List of Publications

14	A new synthetic route to chloride selective [2]catenanes. *Chemical Communications*, **2011**, 47, 1725-7	5.8	30
13	Anion templated assembly of [2]catenanes capable of chloride anion recognition in aqueous solvent media. *RSC Advances*, **2011**, 1, 995	3.7	19
12	Dimeric self-association of an isophthalamide macrocycle in solution and the solid state. *CrystEngComm*, **2011**, 13, 4586	3.3	4
11	Chloride anion triggered motion in a bis-imidazolium rotaxane. *Dalton Transactions*, **2011**, 40, 12052-5	4.3	35
10	Cation-induced molecular motion of spring-like [2]catenanes. *Chemical Science*, **2011**, 2, 922	9.4	28
9	A meta-xylenediamide macrocycle containing rotaxane anion host system constructed by a new synthetic clipping methodology. *New Journal of Chemistry*, **2011**, 35, 2047	3.6	7
8	Enhancement of anion recognition exhibited by a halogen-bonding rotaxane host system. *Journal of the American Chemical Society*, **2010**, 132, 11893-5	16.4	236
7	Calix[4]arene-based rotaxane host systems for anion recognition. *Chemistry - A European Journal*, **2010**, 16, 1256-64	4.8	53
6	Rotaxanes capable of recognising chloride in aqueous media. *Chemistry - A European Journal*, **2010**, 16, 13082-94	4.8	55
5	Halogen bond anion templated assembly of an imidazolium pseudorotaxane. *Angewandte Chemie - International Edition*, **2010**, 49, 5322-6	16.4	141
4	Metal-directed assembly of large dinuclear copper(II) dithiocarbamate macrocyclic complexes. *Inorganica Chimica Acta*, **2010**, 363, 1195-1203	2.7	24
3	Exploiting the 1,2,3-triazolium motif in anion-templated formation of a bromide-selective rotaxane host assembly. *Angewandte Chemie - International Edition*, **2009**, 48, 4781-4	16.4	146
2	Three-dimensional reconstruction of individual helical nano-filament structures from atomic force microscopy topographs		1
1	Quantification of amyloid fibril polymorphism by nano-morphometry reveals the individuality of filament assembly		2