

Christopher J Serpell

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Anion Recognition in Water: Recent Advances from a Supramolecular and Macromolecular Perspective. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1974-87	16.4	289
66	Enhancement of anion recognition exhibited by a halogen-bonding rotaxane host system. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11893-5	16.4	236
65	Core@shell bimetallic nanoparticle synthesis via anion coordination. <i>Nature Chemistry</i> , 2011 , 3, 478-83	17.6	211
64	Transfer of molecular recognition information from DNA nanostructures to gold nanoparticles. <i>Nature Chemistry</i> , 2016 , 8, 162-70	17.6	172
63	Site-specific positioning of dendritic alkyl chains on DNA cages enables their geometry-dependent self-assembly. <i>Nature Chemistry</i> , 2013 , 5, 868-75	17.6	168
62	Exploiting the 1,2,3-triazolium motif in anion-templated formation of a bromide-selective rotaxane host assembly. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4781-4	16.4	146
61	Halogen bond anion templated assembly of an imidazolium pseudorotaxane. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5322-6	16.4	141
60	An efficient and modular route to sequence-defined polymers appended to DNA. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4567-71	16.4	107
59	Reprogramming the assembly of unmodified DNA with a small molecule. <i>Nature Chemistry</i> , 2016 , 8, 368-76	16.6	89
58	Precision polymers and 3D DNA nanostructures: emergent assemblies from new parameter space. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15767-74	16.4	81
57	Haloaurate and halopalladate imidazolium salts: structures, properties, and use as precursors for catalytic metal nanoparticles. <i>Dalton Transactions</i> , 2013 , 42, 1385-93	4.3	80
56	Synergy of Two Assembly Languages in DNA Nanostructures: Self-Assembly of Sequence-Defined Polymers on DNA Cages. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4416-25	16.4	74
55	Can Carbon Nanotubes Deliver on Their Promise in Biology? Harnessing Unique Properties for Unparalleled Applications. <i>ACS Central Science</i> , 2016 , 2, 190-200	16.8	71
54	A redox-active [3]rotaxane capable of binding and electrochemically sensing chloride and sulfate anions. <i>Chemical Communications</i> , 2011 , 47, 8775-7	5.8	63
53	Anionenerkennung in Wasser: aktuelle Fortschritte aus supramolekularer und makromolarer Sicht. <i>Angewandte Chemie</i> , 2016 , 128, 2012-2026	3.6	58
52	Rotaxanes capable of recognising chloride in aqueous media. <i>Chemistry - A European Journal</i> , 2010 , 16, 13082-94	4.8	55
51	Solution and surface-confined chloride anion templated redox-active ferrocene catenanes. <i>Chemical Science</i> , 2012 , 3, 1080	9.4	54

50	Calix[4]arene-based rotaxane host systems for anion recognition. <i>Chemistry - A European Journal</i> , 2010 , 16, 1256-64	4.8	53
49	Molecular Mechanisms of Adipogenesis: The Anti-adipogenic Role of AMP-Activated Protein Kinase. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 76	5.6	47
48	A dual-functional tetrakis-imidazolium macrocycle for supramolecular assembly. <i>Chemical Science</i> , 2011 , 2, 494-500	9.4	46
47	Chloride anion templated synthesis and crystal structure of a handcuff catenane. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2507-10	16.4	40
46	Chloride anion triggered motion in a bis-imidazolium rotaxane. <i>Dalton Transactions</i> , 2011 , 40, 12052-5	4.3	35
45	Cyclometalated Iridium(III) Imidazole Phenanthroline Complexes as Luminescent and Electrochemiluminescent G-Quadruplex DNA Binders. <i>Inorganic Chemistry</i> , 2015 , 54, 6958-67	5.1	34
44	A 1,2,3,4,5-pentaphenylferrocene-stoppered rotaxane capable of electrochemical anion recognition. <i>Chemistry - A European Journal</i> , 2011 , 17, 12347-54	4.8	32
43	A [2]catenane displaying pirouetting motion triggered by debenzylation and locked by chloride anion recognition. <i>Chemistry - A European Journal</i> , 2011 , 17, 7734-8	4.8	30
42	Investigating the imidazolium-anion interaction through the anion-templated construction of interpenetrated and interlocked assemblies. <i>Chemistry - A European Journal</i> , 2011 , 17, 12955-66	4.8	30
41	A new synthetic route to chloride selective [2]catenanes. <i>Chemical Communications</i> , 2011 , 47, 1725-7	5.8	30
40	High definition polyphosphoesters: between nucleic acids and plastics. <i>Polymer Chemistry</i> , 2018 , 9, 2210-2226	4.9	29
39	Fluorogenic dansyl-ligated gold nanoparticles for the detection of sulfur mustard by displacement assay. <i>Chemical Communications</i> , 2013 , 49, 2293-5	5.8	28
38	Cation-induced molecular motion of spring-like [2]catenanes. <i>Chemical Science</i> , 2011 , 2, 922	9.4	28
37	Iodo-imidazolium salts: halogen bonding in crystals and anion-templated pseudorotaxanes. <i>CrystEngComm</i> , 2013 , 15, 3076-3081	3.3	25
36	One-step synthesis and XPS investigations of chiral NHC-Au(0)/Au(i) nanoparticles. <i>Nanoscale</i> , 2019 , 11, 8327-8333	7.7	24
35	Metal-directed assembly of large dinuclear copper(II) dithiocarbamate macrocyclic complexes. <i>Inorganica Chimica Acta</i> , 2010 , 363, 1195-1203	2.7	24
34	Carbon nanotubes allow capture of krypton, barium and lead for multichannel biological X-ray fluorescence imaging. <i>Nature Communications</i> , 2016 , 7, 13118	17.4	23
33	The molecular lifecycle of amyloid - Mechanism of assembly, mesoscopic organisation, polymorphism, suprastructures, and biological consequences. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 140257	4	20

32	Nucleobase peptide amphiphiles. <i>Materials Horizons</i> , 2014 , 1, 348-354	14.4	20
31	Extending the family of heteroditopic calix[4]diquinone receptors for cooperative AND ion-pair recognition. <i>New Journal of Chemistry</i> , 2012 , 36, 102-112	3.6	20
30	Amide and Urea Ferrocene-Containing Macrocycles Capable of the Electrochemical Sensing of Anions. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 939-944	2.3	19
29	Anion templated assembly of [2]catenanes capable of chloride anion recognition in aqueous solvent media. <i>RSC Advances</i> , 2011 , 1, 995	3.7	19
28	Optically active histidin-2-ylidene stabilised gold nanoparticles. <i>Chemical Communications</i> , 2017 , 53, 12426-12429	3.6	19
27	Intermolecular Interactions in Bromo-, Methyl-, and Cyanoimidazole Derivatives. <i>Crystal Growth and Design</i> , 2013 , 13, 2866-2871	3.5	12
26	Thiourea and Guanidine Compounds and Their Iridium Complexes in Drug-Resistant Cancer Cell Lines: Structure-Activity Relationships and Direct Luminescent Imaging. <i>ChemMedChem</i> , 2020 , 15, 349-353	3.7	12
25	Structural Study of Triazole and Amide Containing Anion-Templated Pseudorotaxanes. <i>Crystal Growth and Design</i> , 2014 , 14, 3472-3479	3.5	11
24	An Efficient and Modular Route to Sequence-Defined Polymers Appended to DNA. <i>Angewandte Chemie</i> , 2014 , 126, 4655-4659	3.6	10
23	Three-dimensional reconstruction of individual helical nano-filament structures from atomic force microscopy topographs. <i>Biomolecular Concepts</i> , 2020 , 11, 102-115	3.7	10
22	Quantification of amyloid fibril polymorphism by nano-morphometry reveals the individuality of filament assembly. <i>Communications Chemistry</i> , 2020 , 3,	6.3	10
21	Chloride Anion Templated Synthesis and Crystal Structure of a Handcuff Catenane. <i>Angewandte Chemie</i> , 2011 , 123, 2555-2558	3.6	8
20	Sequence isomerism in uniform polyphosphoesters programmes self-assembly and folding. <i>Chemical Communications</i> , 2020 , 56, 5307-5310	5.8	7
19	A meta-xylenediamide macrocycle containing rotaxane anion host system constructed by a new synthetic clipping methodology. <i>New Journal of Chemistry</i> , 2011 , 35, 2047	3.6	7
18	Brown/Beige adipose tissues and the emerging role of their secretory factors in improving metabolic health: The batokines. <i>Biochimie</i> , 2021 , 184, 26-39	4.6	5
17	Imidazolium-based catenane host for bromide recognition in aqueous media. <i>Chemical Communications</i> , 2021 , 57, 101-104	5.8	5
16	Dimeric self-association of an isophthalamide macrocycle in solution and the solid state. <i>CrystEngComm</i> , 2011 , 13, 4586	3.3	4
15	AgRP/NPY and POMC neurons in the arcuate nucleus and their potential role in treatment of obesity. <i>European Journal of Pharmacology</i> , 2021 , 174611	5.3	4

14	IrIII as a strategy for preorganisation in H-bonded motifs. <i>Supramolecular Chemistry</i> , 2020 , 32, 1-12	1.8	4
13	Degradable Polymers and Nanoparticles Built from Salicylic Acid. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800182	4.8	4
12	Structural identification of individual helical amyloid filaments by integration of cryo-electron microscopy-derived maps in comparative morphometric atomic force microscopy image analysis.. <i>Journal of Molecular Biology</i> , 2022 , 434, 167466	6.5	3
11	Mechanisms of action for the anti-obesogenic activities of phytochemicals. <i>Phytochemistry</i> , 2020 , 180, 112513	4	3
10	Supramolecular behaviour and fluorescence of rhodamine-functionalised ROMP polymers. <i>Polymer Chemistry</i> , 2020 , 11, 5279-5285	4.9	3
9	Quantification of amyloid fibril polymorphism by nano-morphometry reveals the individuality of filament assembly		2
8	Architecture-controlled release of ibuprofen from polymeric nanoparticles. <i>Materials Today Communications</i> , 2020 , 25, 101562	2.5	2
7	-Functionalised Imidazoles as Stabilisers for Metal Nanoparticles in Catalysis and Anion Binding. <i>ChemistryOpen</i> , 2020 , 9, 683-690	2.3	1
6	Development of Gold-PAGE: towards the electrophoretic analysis of sulphurous biopolymers. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5156-5160	7.3	1
5	Three-dimensional reconstruction of individual helical nano-filament structures from atomic force microscopy topographs		1
4	Murine in vitro cellular models to better understand adipogenesis and its potential applications. <i>Differentiation</i> , 2020 , 115, 62-84	3.5	1
3	Chiral, sequence-definable foldamer-derived macrocycles.. <i>Chemical Science</i> , 2021 , 12, 15632-15636	9.4	0
2	Himic Anhydride: A Retro Diels-Alder Reaction for the Organic Laboratory and an Accompanying NMR Study.. <i>Journal of Chemical Education</i> , 2021 , 98, 4013-4016	2.4	0
1	Titelbild: An Efficient and Modular Route to Sequence-Defined Polymers Appended to DNA (Angew. Chem. 18/2014). <i>Angewandte Chemie</i> , 2014 , 126, 4585-4585	3.6	