David K Smith

List of Publications by Citations

203 papers	12,330 citations	60 h-index	103 g-index
228 ext. papers	13,290 ext. citations	8.6 avg, IF	7.13 L-index

#	Paper	IF	Citations
203	High-tech applications of self-assembling supramolecular nanostructured gel-phase materials: from regenerative medicine to electronic devices. *Angewandte Chemie - International Edition*, **2008**, 47, 8002-18	16.4	1079
202	Applying low-molecular weight supramolecular gelators in an environmental setting - self-assembled gels as smart materials for pollutant removal. *Chemical Society Reviews*, **2016**, 45, 4226-51	58.5	496
201	Supramolecular materials. *Chemical Society Reviews*, **2017**, 46, 2404-2420	58.5	391
200	Lost in translation? Chirality effects in the self-assembly of nanostructured gel-phase materials. *Chemical Society Reviews*, **2009**, 38, 684-94	58.5	338
199	Two-component gel-phase materials--highly tunable self-assembling systems. *Chemistry - A European Journal*, **2005**, 11, 5496-508	4.8	337
198	Low-molecular-weight gelators: elucidating the principles of gelation based on gelator solubility and a cooperative self-assembly model. *Journal of the American Chemical Society*, **2008**, 130, 9113-21	16.4	328
197	Functional Dendrimers: Unique Biological Mimics. *Chemistry - A European Journal*, **1998**, 4, 1353-1361	4.8	320
196	Two-component dendritic gels: easily tunable materials. *Journal of the American Chemical Society*, **2003**, 125, 9010-1	16.4	197
195	Solvent effects on supramolecular gel-phase materials: two-component dendritic gel. *Langmuir*, **2004**, 20, 10851-7	4	164
194	Self-assembly using dendritic building blocks--towards controllable nanomaterials. *Progress in Polymer Science*, **2005**, 30, 220-293	29.6	164
193	Degradable self-assembling dendrons for gene delivery: experimental and theoretical insights into the barriers to cellular uptake. *Journal of the American Chemical Society*, **2011**, 133, 20288-300	16.4	156
192	Dendritic supermolecules--towards controllable nanomaterials. *Chemical Communications*, **2006**, 34-44	5.8	155
191	Expanding the scope of gels - combining polymers with low-molecular-weight gelators to yield modified self-assembling smart materials with high-tech applications. *Materials Horizons*, **2015**, 2, 279-293	14.4	147
190	Self-assembled multivalency: dynamic ligand arrays for high-affinity binding. *Angewandte Chemie - International Edition*, **2012**, 51, 6572-81	16.4	147
189	Shaping and structuring supramolecular gels. *Nature Reviews Materials*, **2019**, 4, 463-478	73.3	146
188	Neutral Ferrocenoyl Receptors for the Selective Recognition and Sensing of Anionic Guests. *Inorganic Chemistry*, **1997**, 36, 2112-2118	5.1	142
187	Supramolecular dendritic two-component gel. *Chemical Communications*, **2001**, 319-320	5.8	140

186	Heparin sensing and binding - taking supramolecular chemistry towards clinical applications. *Chemical Society Reviews*, **2013**, 42, 9184-95	58.5	138
185	Two-component dendritic gel: effect of stereochemistry on the supramolecular chiral assembly. *Chemistry - A European Journal*, **2004**, 10, 5901-10	4.8	138
184	Solvent–gelator interactions—using empirical solvent parameters to better understand the self-assembly of gel-phase materials. *Soft Matter*, **2011**, 7, 110-117	3.6	125
183	Versatile supramolecular pH-tolerant hydrogels which demonstrate pH-dependent selective adsorption of dyes from aqueous solution. *Chemical Communications*, **2013**, 49, 11164-6	5.8	120
182	Enantioselective component selection in multicomponent supramolecular gels. *Journal of the American Chemical Society*, **2014**, 136, 1116-24	16.4	118
181	Controlled self-sorting in the assembly of 'multi-gelator' gels. *Chemical Communications*, **2009**, 316-8	5.8	112
180	High-affinity multivalent DNA binding by using low-molecular-weight dendrons. *Angewandte Chemie - International Edition*, **2005**, 44, 2556-9	16.4	111
179	Modeling the multivalent recognition between dendritic molecules and DNA: understanding how ligand "sacrifice" and screening can enhance binding. *Journal of the American Chemical Society*, **2009**, 131, 9686-94	16.4	110
178	Synthesis of gold nanoparticles within a supramolecular gel-phase network. *Chemical Communications*, **2005**, 1971-3	5.8	110
177	Dynamic evolving two-component supramolecular gels-hierarchical control over component selection in complex mixtures. *Journal of the American Chemical Society*, **2013**, 135, 5911-20	16.4	109
176	Metastable two-component gel-exploring the gel-crystal interface. *Chemical Communications*, **2008**, 2248-50	5.8	105
175	Ferrocene encapsulated within symmetric dendrimers: a deeper understanding of dendritic effects on redox potential. *Journal of the American Chemical Society*, **2002**, 124, 856-64	16.4	105
174	Supramolecular Dendrimer Chemistry: A Journey Through the Branched Architecture. *Topics in Current Chemistry*, **2000**, 183-227		103
173	Two-component dendritic gel: effect of spacer chain length on the supramolecular chiral assembly. *Langmuir*, **2004**, 20, 7070-7	4	100
172	Optically triggered release of DNA from multivalent dendrons by degrading and charge-switching multivalency. *Angewandte Chemie - International Edition*, **2007**, 46, 7600-4	16.4	99
171	Photopatterned Multidomain Gels: Multi-Component Self-Assembled Hydrogels Based on Partially Self-Sorting 1,3:2,4-Dibenzylidene-D-sorbitol Derivatives. *Journal of the American Chemical Society*, **2015**, 137, 15486-92	16.4	97
170	1,3:2,4-Dibenzylidene-D-sorbitol (DBS) and its derivatives--efficient, versatile and industrially-relevant low-molecular-weight gelators with over 100 years of history and a bright future. *Soft Matter*, **2015**, 11, 4768-87	3.6	96
169	Self-organisation in the assembly of gels from mixtures of different dendritic peptide building blocks. *Chemistry - A European Journal*, **2007**, 13, 2180-8	4.8	95

168	Mallard blue: a high-affinity selective heparin sensor that operates in highly competitive media. *Journal of the American Chemical Society*, **2013**, 135, 2911-4	16.4	92
167	Self-sorting multi-gelator gels□mixing and ageing effects in thermally addressable supramolecular soft nanomaterials. *Soft Matter*, **2011**, 7, 4856	3.6	92
166	Self-assembly of two-component gels: stoichiometric control and component selection. *Chemistry - A European Journal*, **2009**, 15, 372-9	4.8	90
165	A direct comparison of one- and two-component dendritic self-assembled materials: elucidating molecular recognition pathways. *Journal of the American Chemical Society*, **2005**, 127, 7130-9	16.4	89
164	Anion Binding and Recognition by Inorganic Based Receptors. *Progress in Inorganic Chemistry*, **2007**, 1-96		83
163	Anion binding by catechols--an NMR, optical and electrochemical study. *Organic and Biomolecular Chemistry*, **2006**, 4, 1760-7	3.9	81
162	Unique nanoscale morphologies underpinning organic gel-phase materials. *Chemistry - A European Journal*, **2005**, 11, 6552-9	4.8	80
161	Hybrid polymer and low molecular weight gels □dynamic two-component soft materials with both responsive and robust nanoscale networks. *Soft Matter*, **2013**, 9, 8730	3.6	79
160	Dendritic gelators. *Topics in Current Chemistry*, **2005**, 256, 237-73		73
159	Less is more □multiscale modelling of self-assembling multivalency and its impact on DNA binding and gene delivery. *Chemical Science*, **2010**, 1, 393	9.4	71
158	Hydrophobically modified dendrons: developing structure-activity relationships for DNA binding and gene transfection. *Molecular Pharmaceutics*, **2011**, 8, 416-29	5.6	70
157	Selective Extraction and In Situ Reduction of Precious Metal Salts from Model Waste To Generate Hybrid Gels with Embedded Electrocatalytic Nanoparticles. *Angewandte Chemie - International Edition*, **2016**, 55, 183-7	16.4	69
156	Precisely defined protein-polymer conjugates: construction of synthetic DNA binding domains on proteins by using multivalent dendrons. *ACS Nano*, **2007**, 1, 103-13	16.7	69
155	Dendrons with spermine surface groups as potential building blocks for nonviral vectors in gene therapy. *Bioconjugate Chemistry*, **2006**, 17, 172-8	6.3	68
154	One-component gels based on peptidic dendrimers: dendritic effects on materials properties. *Langmuir*, **2004**, 20, 6580-5	4	66
153	Self-Assembled Gels Formed in Deep Eutectic Solvents: Supramolecular Eutectogels with High Ionic Conductivity. *Angewandte Chemie - International Edition*, **2019**, 58, 4173-4178	16.4	65
152	Synergistic effects in gene delivery-a structure-activity approach to the optimisation of hybrid dendritic-lipidic transfection agents. *Chemical Communications*, **2008**, 4700-2	5.8	65
151	Tunable bis(ferrocenyl) receptors for the solution-phase electrochemical sensing of transition-metal cations. *Journal of the Chemical Society Dalton Transactions*, **1998**, 417-424		63

150	Transition metal cation and phosphate anion electrochemical recognition in water by new polyaza ferrocene macrocyclic ligands. *Inorganica Chimica Acta*, **1996**, 246, 143-150	2.7	63
149	Supramolecular dendrimer chemistry: using dendritic crown ethers to reversibly generate functional assemblies. *Tetrahedron*, **2003**, 59, 3999-4009	2.4	62
148	Rapid NMR screening of chloride receptors: uncovering catechol as a useful anion binding motif. *Organic and Biomolecular Chemistry*, **2003**, 1, 3874-7	3.9	62
147	Dendroclefts: Optically Active Dendritic Receptors for the Selective Recognition and Chiroptical Sensing of Monosaccharide Guests. *Helvetica Chimica Acta*, **1999**, 82, 1225-1241	2	62
146	Self-assembling ligands for multivalent nanoscale heparin binding. *Angewandte Chemie - International Edition*, **2011**, 50, 4675-9	16.4	60
145	Dendritic hydrogen bonding receptors: enantiomerically pure dendroclefts for the selective recognition of monosaccharides. *Chemical Communications*, **1998**, 2501-2502	5.8	60
144	Dendrimers and the double helix--from DNA binding towards gene therapy. *Current Topics in Medicinal Chemistry*, **2008**, 8, 1187-203	3	60
143	Multivalent dendrons for high-affinity adhesion of proteins to DNA. *Angewandte Chemie - International Edition*, **2006**, 45, 3538-42	16.4	60
142	Ortho-substituted catechol derivatives: the effect of intramolecular hydrogen-bonding pathways on chloride anion recognition. *Journal of Organic Chemistry*, **2007**, 72, 2803-15	4.2	59
141	Quantifying the effect of surface ligands on dendron-DNA interactions: insights into multivalency through a combined experimental and theoretical approach. *Chemistry - A European Journal*, **2010**, 16, 4519-32	4.8	57
140	Supramolecular solubilisation of hydrophilic dyes by using individual dendritic branches. *Chemistry - A European Journal*, **2001**, 7, 4730-9	4.8	57
139	Supramolecular Self-Assembly To Control Structural and Biological Properties of Multicomponent Hydrogels. *Chemistry of Materials*, **2019**, 31, 7883-7897	9.6	56
138	Anion Recognition by Redox-Responsive Ditopic Bis-Cobaltocenium Receptor Molecules Including a Novel Calix[4]arene Derivative That Binds a Dicarboxylate Dianion. *Organometallics*, **1995**, 14, 3288-3295	3.8	56
137	"On-off" multivalent recognition: degradable dendrons for temporary high-affinity DNA binding. *Angewandte Chemie - International Edition*, **2009**, 48, 4047-51	16.4	55
136	Self-assembled sorbitol-derived supramolecular hydrogels for the controlled encapsulation and release of active pharmaceutical ingredients. *Chemical Communications*, **2015**, 51, 7451-4	5.8	54
135	Cyclic and open-chain aza□oxa ferrocene-functionalised derivatives as receptors for the selective electrochemical sensing of toxic heavy metal ions in aqueous environments. *Journal of the Chemical Society Dalton Transactions*, **1999**, 2359-2370		52
134	Selective electrochemical recognition of sulfate over phosphate and phosphate over sulfate using polyaza ferrocene macrocyclic receptors in aqueous solution. *Journal of the Chemical Society Dalton Transactions*, **1999**, 127-134		52
133	Exploring molecular recognition pathways within a family of gelators with different hydrogen bonding motifs. *Tetrahedron*, **2007**, 63, 7397-7406	2.4	51

132	Controlling the materials properties and nanostructure of a single-component dendritic gel by adding a second component. *Chemical Communications*, **2005**, 385-7	5.8	51
131	iTube, YouTube, WeTube: Social Media Videos in Chemistry Education and Outreach. *Journal of Chemical Education*, **2014**, 91, 1594-1599	2.4	49
130	The reaction coordinate of a bacterial GH47 -mannosidase: a combined quantum mechanical and structural approach. *Angewandte Chemie - International Edition*, **2012**, 51, 10997-1001	16.4	49
129	Selective electrochemical recognition of bidentate anionic guests in competitive solvents using novel ferrocenyl thiourea and guanidinium receptors. *Journal of Organometallic Chemistry*, **1997**, 543, 259-261	2.3	49
128	Multi-component hybrid hydrogels - understanding the extent of orthogonal assembly and its impact on controlled release. *Chemical Science*, **2017**, 8, 6981-6990	9.4	48
127	Self-assembly of two-component peptidic dendrimers: dendritic effects on gel-phase materials. *Organic and Biomolecular Chemistry*, **2004**, 2, 2965-71	3.9	47
126	Quantitative and structural investigations of hydrogen bonding interactions in anion binding of mono- and 1,1?-bis-substituted aryl cobaltocenium receptors. *Journal of the Chemical Society Dalton Transactions*, **1995**, 403-408		44
125	Calcium fluoride-supported alkali metal fluorides. New reagents for nucleophilic fluorine transfer reactions. *Journal of the Chemical Society Chemical Communications*, **1986**, 791		44
124	Comparing dendritic and self-assembly strategies to multivalency--RGD peptide-integrin interactions. *Organic and Biomolecular Chemistry*, **2011**, 9, 4795-801	3.9	43
123	Controlled release of DNA from photoresponsive hyperbranched polyglycerols with oligoamine shells. *Macromolecular Bioscience*, **2011**, 11, 1736-46	5.5	43
122	A dendritic active site: catalysis of the Henry reaction. *Organic Letters*, **2001**, 3, 3075-8	6.2	43
121	Spatially-resolved soft materials for controlled release - hybrid hydrogels combining a robust photo-activated polymer gel with an interactive supramolecular gel. *Chemical Science*, **2017**, 8, 7218-7227	9.4	42
120	Dendron-stabilised gold nanoparticles: generation dependence of core size and thermal stability. *Journal of Materials Chemistry*, **2004**, 14, 919		42
119	Palladium-scavenging self-assembled hybrid hydrogels - reusable highly-active green catalysts for Suzuki-Miyaura cross-coupling reactions. *Chemical Science*, **2018**, 9, 8673-8681	9.4	42
118	Nanoscale self-assembled multivalent (SAMul) heparin binders in highly competitive, biologically relevant, aqueous media. *Chemical Science*, **2014**, 5, 1484	9.4	40
117	Metathesis within self-assembled gels: transcribing nanostructured soft materials into a more robust form. *Langmuir*, **2009**, 25, 8786-93	4	39
116	Multicomponent polysaccharide alginate-based bioinks. *Journal of Materials Chemistry B*, **2020**, 8, 8171-8188	7.3	39
115	Hierarchical assembly dynamic gel anoparticle hybrid soft materials based on biologically derived building blocks. *Journal of Materials Chemistry*, **2010**, 20, 6696		38

114	A Supramolecular Approach to Medicinal Chemistry: Medicine Beyond the Molecule. *Journal of Chemical Education*, **2005**, 82, 393	2.4	38
113	Self-organisation effects in dynamic nanoscale gels self-assembled from simple mixtures of commercially available molecular-scale components. *Chemical Science*, **2013**, 4, 671-676	9.4	37
112	Cation-responsive silver-selective organogel-exploiting silver-alkene interactions in the gel-phase. *Chemical Communications*, **2012**, 48, 2767-9	5.8	37
111	Dendron-protected Au nanoparticles--effect of dendritic structure on chemical stability. *Journal of Colloid and Interface Science*, **2006**, 302, 178-86	9.3	37
110	Dendritic biomimicry: microenvironmental hydrogen-bonding effects on tryptophan fluorescence. *Chemistry - A European Journal*, **2001**, 7, 979-86	4.8	37
109	Fluorodenitrations using tetrabutylammonium fluoride. *Tetrahedron Letters*, **1985**, 26, 2233-2236	2	37
108	Exploring molecular recognition pathways in one- and two-component gels formed by dendritic lysine-based gelators. *Soft Matter*, **2012**, 8, 3399	3.6	36
107	A simple new competition assay for heparin binding in serum applied to multivalent PAMAM dendrimers. *Chemical Communications*, **2013**, 49, 4830-2	5.8	36
106	Rapid screening of binding constants by calibrated competitive 1H NMR spectroscopy. *Chemistry - A European Journal*, **2003**, 9, 850-5	4.8	36
105	Selbstorganisierte Multivalenz: dynamische Ligandenanordnungen f□ hochaffine Bindungen. *Angewandte Chemie*, **2012**, 124, 6676-6685	3.6	34
104	Controlled release of a dendritically encapsulated template molecule. *Angewandte Chemie - International Edition*, **2002**, 41, 3254-7	16.4	34
103	High resolution solid state 19F n.m.r. spectroscopy as a tool for the study of ionic fluorides. *Journal of the Chemical Society Chemical Communications*, **1986**, 657		34
102	Optimizing biomimetic gelators constructed from amino acid building blocks. *Journal of Organic Chemistry*, **2007**, 72, 3937-40	4.2	33
101	Pyrene-based heparin sensors in competitive aqueous media - the role of self-assembled multivalency (SAMul). *Chemical Communications*, **2016**, 52, 3785-8	5.8	31
100	Nanostructured polymers with embedded self-assembled reactive gel networks. *Chemical Communications*, **2008**, 4601-3	5.8	31
99	Supramolecular dendritic solubilisation of a hydrophilic dye and tuning of its optical properties. *Chemical Communications*, **1999**, 1685-1686	5.8	31
98	Dendritic biomimicry: microenvironmental effects on tryptophan fluorescence□*Chemical Communications*, **1999**, 1915-1916	5.8	31
97	Self-assembled multivalent RGD-peptide arrays--morphological control and integrin binding. *Organic and Biomolecular Chemistry*, **2013**, 11, 3177-86	3.9	30

96	Controlled Synthesis of Optically Active Polyaniline Nanorods and Nanostructured Gold Microspheres Using Tetrachloroaurate as an Efficient Oxidant of Aniline. *Macromolecules*, **2008**, 41, 3417-3421	5.5	30
95	Anion binding at the core of branched ferrocene derivatives. *Polyhedron*, **2003**, 22, 763-768	2.7	30
94	High-Affinity Multivalent DNA Binding by Using Low-Molecular-Weight Dendrons. *Angewandte Chemie*, **2005**, 117, 2612-2615	3.6	30
93	Self-Assembling Supramolecular Hybrid Hydrogel Beads. *Angewandte Chemie - International Edition*, **2020**, 59, 853-859	16.4	30
92	Controlled self-assembly-synthetic tunability and covalent capture of nanoscale gel morphologies. *Chemistry - A European Journal*, **2009**, 15, 6340-4	4.8	29
91	Encapsulated binding sites--synthetically simple receptors for the binding and transport of HCl. *Chemical Communications*, **2009**, 4299-301	5.8	29
90	Synthetically accessible, high-affinity phosphate anion receptors. *Chemical Communications*, **2007**, 3039-41	5.8	29
89	Selective Extraction and In Situ Reduction of Precious Metal Salts from Model Waste To Generate Hybrid Gels with Embedded Electrocatalytic Nanoparticles. *Angewandte Chemie*, **2016**, 128, 191-195	3.6	28
88	Double-degradable responsive self-assembled multivalent arrays--temporary nanoscale recognition between dendrons and DNA. *Organic and Biomolecular Chemistry*, **2014**, 12, 446-55	3.9	27
87	Polyglycerol-based amphiphilic dendrons as potential siRNA carriers for in vivo applications. *Journal of Materials Chemistry B*, **2014**, 2, 2153-2167	7.3	27
86	Catalytic Gels for a Prebiotically Relevant Asymmetric Aldol Reaction in Water: From Organocatalyst Design to Hydrogel Discovery and Back Again. *Journal of the American Chemical Society*, **2020**, 142, 4379-4389	16.4	26
85	Electrostatic binding of polyanions using self-assembled multivalent (SAMul) ligand displays - structure-activity effects on DNA/heparin binding. *Chemical Science*, **2016**, 7, 4653-4659	9.4	26
84	Heparin versus DNA: Chiral Preferences in Polyanion Binding to Self-Assembled Multivalent (SAMul) Nanostructures. *Journal of the American Chemical Society*, **2015**, 137, 10056-9	16.4	25
83	Commercially Relevant Orthogonal Multi-Component Supramolecular Hydrogels for Programmed Cell Growth. *Chemistry - A European Journal*, **2018**, 24, 15112-15118	4.8	25
82	Molecular Gels Nanostructured Soft Materials111-154		25
81	Dendritic nanoparticles-the impact of ligand cross-linking on nanocore stability. *Langmuir*, **2007**, 23, 5787-94	4	24
80	Multidomain Hybrid Hydrogels: Spatially Resolved Photopatterned Synthetic Nanomaterials Combining Polymer and Low-Molecular-Weight Gelators. *Angewandte Chemie*, **2014**, 126, 12669-12673	3.6	23
79	Robust gels created using a self-assembly and covalent capture strategy. *Chemical Communications*, **2005**, 5647-9	5.8	23

78	Self-Assembled Supramolecular Hybrid Hydrogel Beads Loaded with Silver Nanoparticles for Antimicrobial Applications. *Chemistry - A European Journal*, **2020**, 26, 8452-8457	4.8	22
77	Synthetically accessible, tunable, low-molecular-weight oligopeptide organogelators. *Chemical Communications*, **2011**, 47, 340-2	5.8	22
76	Synergistic effects on gene delivery--co-formulation of small disulfide-linked dendritic polycations with Lipofectamine 2000. *Organic and Biomolecular Chemistry*, **2009**, 7, 789-93	3.9	22
75	Synthesis and Characterization of Silica-Supported l-Lysine-Based Dendritic Branches. *Langmuir*, **2002**, 18, 8660-8665	4	22
74	Multidomain hybrid hydrogels: spatially resolved photopatterned synthetic nanomaterials combining polymer and low-molecular-weight gelators. *Angewandte Chemie - International Edition*, **2014**, 53, 12461-5	16.4	21
73	Structure-activity effects in peptide self-assembly and gelation - Dendritic versus linear architectures. *Chemical Communications*, **2012**, 48, 7817-9	5.8	21
72	From fundamental supramolecular chemistry to self-assembled nanomaterials and medicines and back again - how Sam inspired SAMul. *Chemical Communications*, **2018**, 54, 4743-4760	5.8	20
71	Fluorescent ‘two-faced’ polymer wafers with embedded pyrene-functionalised gelator nanofibres. *Chemical Communications*, **2011**, 47, 11864-6	5.8	20
70	Molecular gels: underpinning nanoscale materials with organic chemistry. *Tetrahedron*, **2007**, 63, 7283-7284	2.4	20
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67	Speed versus stability: structure–activity effects on the assembly of two-component gels. *RSC Advances*, **2015**, 5, 27190-27196	3.7	19
66	Multi-component supramolecular gels for the controlled crystallization of drugs: synergistic and antagonistic effects. *CrystEngComm*, **2015**, 17, 8146-8152	3.3	19
65	Shape-persistent and adaptive multivalency: rigid transgeden (TGD) and flexible PAMAM dendrimers for heparin binding. *Chemistry - A European Journal*, **2014**, 20, 9666-74	4.8	19
64	Sorption of metal ions by poly(ethylene glycol)/βCD hydrogels leads to gel-embedded metal nanoparticles. *Langmuir*, **2013**, 29, 9173-8	4	19
63	Nanocomposite hydrogels: controlled synthesis of chiral polyaniline nanofibers and their inclusion in agarose. *Synthetic Metals*, **2009**, 159, 2135-2140	3.6	19
62	Branched ferrocene derivatives: using redox potential to probe the dendritic interior. *Journal of the Chemical Society Perkin Transactions II*, **1999**, 1563-1566		19
61	Crown ether functionalised dendrons: controlled binding and release of dopamine in both solution and gel-phases. *New Journal of Chemistry*, **2007**, 31, 1243-1249	3.6	18

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58	Prebiotic synthesis of 2-deoxy-d-ribose from interstellar building blocks promoted by amino esters or amino nitriles. *Chemical Communications*, **2017**, 53, 10362-10365	5.8	16
57	Chiral recognition at self-assembled multivalent (SAMul) nanoscale interfaces - enantioselectivity in polyanion binding. *Chemical Communications*, **2016**, 52, 10540-3	5.8	16
56	Tuning gelled lyotropic liquid crystals (LLCs) - probing the influence of different low molecular weight gelators on the phase diagram of the system HO/NaCl-Genapol LA070. *Soft Matter*, **2019**, 15, 3111-3121	3.6	15
55	Sequential Assembly of Mutually Interactive Supramolecular Hydrogels and Fabrication of Multi-Domain Materials. *Chemistry - A European Journal*, **2019**, 25, 11318-11326	4.8	14
54	Ion exchange in alginate gels--dynamic behaviour revealed by electron paramagnetic resonance. *Soft Matter*, **2015**, 11, 8968-74	3.6	14
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52	Morphological control of self-assembled multivalent (SAMul) heparin binding in highly competitive media. *Chemical Communications*, **2017**, 53, 6335-6338	5.8	13
51	Self-Assembled Multivalent (SAMul) Polyanion Binding-Impact of Hydrophobic Modifications in the Micellar Core on DNA and Heparin Binding at the Peripheral Cationic Ligands. *Chemistry - A European Journal*, **2017**, 23, 6391-6397	4.8	13
50	High-molecular-weight polymers for protein crystallization: poly-gamma-glutamic acid-based precipitants. *Acta Crystallographica Section D: Biological Crystallography*, **2008**, 64, 957-63		13
49	NMR and ESR investigations of the interaction between a carboxylic acid and an amine at the focal point of L-lysine based dendritic branches. *Organic and Biomolecular Chemistry*, **2004**, 2, 922-6	3.9	13
48	Two-component supramolecular hydrogel for controlled drug release. *Chemical Communications*, **2020**, 56, 11046-11049	5.8	13
47	Self-Assembled Gels Formed in Deep Eutectic Solvents: Supramolecular Eutectogels with High Ionic Conductivity. *Angewandte Chemie*, **2019**, 131, 4217-4222	3.6	12
46	Microscale vapour diffusion for protein crystallization. *Acta Crystallographica Section D: Biological Crystallography*, **2007**, 63, 1009-15		12
45	Chapter 9:Applications of Supramolecular Gels. *Monographs in Supramolecular Chemistry*, **2018**, 300-371	1.1	12
44	Diffusion across a gel-gel interface - molecular-scale mobility of self-assembled solid-like gel nanofibres in multi-component supramolecular organogels. *Chemical Science*, **2018**, 9, 5541-5550	9.4	12
43	Effect of buffer at nanoscale molecular recognition interfaces - electrostatic binding of biological polyanions. *Chemical Communications*, **2017**, 53, 11580-11583	5.8	11

42	Hybrid hydrogels loaded with palladium nanoparticles Catalysts for environmentally-friendly Sonogashira and Heck cross-coupling reactions. *Tetrahedron*, **2020**, 76, 131344	2.4	11
41	The race to the bottom and the route to the top. *Nature Chemistry*, **2020**, 12, 101-103	17.6	11
40	Effects of a PEG additive on the biomolecular interactions of self-assembled dendron nanostructures. *Organic and Biomolecular Chemistry*, **2012**, 10, 8403-9	3.9	11
39	Modular construction and hierarchical gelation of organooxotin nanoclusters derived from simple building blocks. *Chemical Communications*, **2007**, 4943-5	5.8	11
38	Enantiomeric and Diastereomeric Self-Assembled Multivalent Nanostructures: Understanding the Effects of Chirality on Binding to Polyanionic Heparin and DNA. *Angewandte Chemie - International Edition*, **2018**, 57, 8530-8534	16.4	11
37	In situ aldehyde-modification of self-assembled acyl hydrazide hydrogels and dynamic component selection from complex aldehyde mixtures. *Chemical Communications*, **2019**, 55, 1947-1950	5.8	10
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