Steven C C Zimmerman

List of Publications by Year
in descending order

197 papers	14,034 citations	16451 64 h-index	22832 112 g-index
209 all docs	209 docs citations	209 times ranked	11116 citing authors

#	Article	IF	Citations
1	Dendrimers in Supramolecular Chemistry:â€‰ From Molecular Recognition to Self-Assembly. Chemical Reviews, 1997, 97, 1681-1712.	47.7	1,385
2	Synthetic hosts by monomolecular imprinting inside dendrimers. Nature, 2002, 418, 399-403.	27.8	383
3	Electrochemical CO2-to-ethylene conversion on polyamine-incorporated Cu electrodes. Nature Catalysis, 2021, 4, 20-27.	34.4	313
4	New triply hydrogen bonded complexes with highly variable stabilities. Journal of the American Chemical Society, 1992, 114, 4010-4011.	13.7	278
5	Self-Assembly of 1,3,5-Benzenetricarboxylic Acids(Trimesic Acids) and Several Analogues in the Solid State. Angewandte Chemie International Edition in English, 1996, 34, 2654-2657.	4.4	275
6	Orthogonality in organic, polymer, and supramolecular chemistry: from Merrifield to click chemistry. Chemical Communications, 2013, 49, 1679.	4.1	267
7	Self-Association without Regard to Prototropy. A Heterocycle That Forms Extremely Stable Quadruply Hydrogen-Bonded Dimers. Journal of the American Chemical Society, 1998, 120, 9710-9711.	13.7	257
8	Supramolecular Liquid Crystals. Self-Assembly of a Trimeric Supramolecular Disk and Its Self-Organization into a Columnar Discotic Mesophase. Journal of the American Chemical Society, 1998, 120, 9526-9532.	13.7	251
9	Heteroaromatic Modules for Self-Assembly Using Multiple Hydrogen Bonds. Structure and Bonding, 2000, , 63-94.	1.0	243
10	Complexation-Induced Unfolding of Heterocyclic Ureas. Simple Foldamers Equilibrate with Multiply Hydrogen-Bonded Sheetlike Structures1. Journal of the American Chemical Society, 2001, 123, 10475-10488.	13.7	240
11	Formation of a Miscible Supramolecular Polymer Blend through Self-Assembly Mediated by a Quadruply Hydrogen-Bonded Heterocomplex. Journal of the American Chemical Society, 2006, 128, 11582-11590.	13.7	239
12	Synthesis of Cored Dendrimers. Journal of the American Chemical Society, 1999, 121, 1389-1390.	13.7	217
13	A Highly Stable Quadruply Hydrogen-Bonded Heterocomplex Useful for Supramolecular Polymer Blends. Journal of the American Chemical Society, 2005, 127, 6520-6521.	13.7	209
14	A simple ligand that selectively targets CUG trinucleotide repeats and inhibits MBNL protein binding. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16068-16073.	7.1	198
15	Synthetic hosts via molecular imprintingâ€”are universal synthetic antibodies realistically possible?. Chemical Communications, 2004, , 5-14.	4.1	193
16	Rapid Synthesis of Dendrimers by an Orthogonal Coupling Strategy. Journal of the American Chemical Society, 1996, 118, 5326-5327.	13.7	190
17	A Highly Efficient Single-Chain Metalâ€“Organic Nanoparticle Catalyst for Alkyneâ€“Azide â€œClickâ€• Reactions in Water and in Cells. Journal of the American Chemical Society, 2016, 138, 11077-11080.	13.7	190
18	Discrete and polymeric self-assembled dendrimers: Hydrogen bond-mediated assembly with high stability and high fidelity. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5099-5104.	7.1	170

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19	Supramolecular Polymer Chemistry:Â Self-Assembling Dendrimers Using the DDAÂ·AAD (GC-like) Hydrogen Bonding Motif. Journal of the American Chemical Society, 2002, 124, 13757-13769.	13.7	170
20	Cross-Linked Dendrimer Hosts Containing Reporter Groups for Amine Guests. Journal of the American Chemical Society, 2003, 125, 3424-3425.	13.7	169
21	A New Route to Organic Nanotubes from Porphyrin Dendrimers. Angewandte Chemie - International Edition, 2003, 42, 1121-1126.	13.8	155
22	A Supramolecular Multi-Block Copolymer with a High Propensity for Alternation. Journal of the American Chemical Society, 2006, 128, 13986-13987.	13.7	154
23	Complexation of nucleotide bases by molecular tweezers with active site carboxylic acids: effects of microenvironment. Journal of the American Chemical Society, 1991, 113, 196-201.	13.7	151
24	Rigid molecular tweezers: preorganized hosts for electron donor-acceptor complexation in organic solvents. Journal of the American Chemical Society, 1989, 111, 1373-1381.	13.7	146
25	Supramolecular Chemistry of Dendrimers. Topics in Current Chemistry, 2001, , 95-120.	4.0	142
26	Applications of dendrimers in bio-organic chemistry. Current Opinion in Chemical Biology, 1998, 2, 733-742.	6.1	141
27	Molecular Imprinting Inside Dendrimers. Journal of the American Chemical Society, 2003, 125, 13504-13518.	13.7	139
28	Rigid molecular tweezers as hosts for the complexation of neutral guests. , 1993, , 71-102.		136
29	A Quadruply Hydrogen Bonded Heterocomplex Displaying High-Fidelity Recognition. Journal of the American Chemical Society, 2005, 127, 18133-18142.	13.7	131
30	Complexation-Induced Unfolding of Heterocyclic Ureas:Â A Hydrogen-Bonded, Sheetlike Heterodimer. Journal of the American Chemical Society, 2000, 122, 3779-3780.	13.7	128
31	Rigid molecular tweezers: synthesis, characterization, and complexation chemistry of a diacridine. Journal of the American Chemical Society, 1987, 109, 7894-7896.	13.7	127
32	Does the AÂ·T or GÂ·C Base-Pair Possess Enhanced Stability? Quantifying the Effects of CHÂ·Â·Â·O Interactions and Secondary Interactions on Base-Pair Stability Using a Phenomenological Analysis and ab Initio Calculations. Journal of the American Chemical Society, 2007, 129, 934-941.	13.7	126
33	Proton transfer dynamics control the mechanismÂof O2 reduction by a non-precious metalÂelectrocatalyst. Nature Materials, 2016, 15, 754-759.	27.5	126
34	Designed transition metal catalysts for intracellular organic synthesis. Chemical Society Reviews, 2018, 47, 1811-1821.	38.1	126
35	A rigid molecular tweezers with an active site carboxylic acid: exceptionally efficient receptor for adenine in an organic solvent. Journal of the American Chemical Society, 1989, 111, 8054-8055.	13.7	124
36	Monovalent, Clickable, Uncharged, Water-Soluble Perylenediimide-Cored Dendrimers for Target-Specific Fluorescent Biolabeling. Journal of the American Chemical Society, 2011, 133, 9964-9967.	13.7	124

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37	Self-Assembly of 1,3,5-Benzenetricarboxylic (Trimesic) Acid and Its Analogues. Chemistry - A European Journal, 1999, 5, 2537-2547.	3.3	123
38	Controlled molecular aggregation. 1. Cyclic trimerization via hydrogen bonding. Journal of Organic Chemistry, 1992, 57, 2215-2217.	3.2	119
39	Self-Assembly Mediated by the Donorâ˜Donorâ˜AcceptorÂ·Acceptorâ˜Acceptorâ˜Donor (DDAÂ·AAD) Hydrogen-Bonding Motif:Â Formation of a Robust Hexameric Aggregate. Journal of the American Chemical Society, 1998, 120, 9092-9093.	13.7	116
40	Mimics of transaminase enzymes. Journal of the American Chemical Society, 1986, 108, 1969-1979.	13.7	114
41	A dendritic single-molecule fluorescent probe that is monovalent, photostable and minimally blinking. Nature Chemistry, 2013, 5, 692-697.	13.6	112
42	Supramolecular Star Polymers. Increased Molecular Weight with Decreased Polydispersity through Self-Assembly. Journal of the American Chemical Society, 2007, 129, 14534-14535.	13.7	110
43	Rationally Designed Small Molecules That Target Both the DNA and RNA Causing Myotonic Dystrophy Type 1. Journal of the American Chemical Society, 2015, 137, 14180-14189.	13.7	106
44	Synthesis of a Redox-Responsive Quadruple Hydrogen-Bonding Unit for Applications in Supramolecular Chemistry. Journal of the American Chemical Society, 2011, 133, 17118-17121.	13.7	104
45	Enzyme-like Click Catalysis by a Copper-Containing Single-Chain Nanoparticle. Journal of the American Chemical Society, 2018, 140, 13695-13702.	13.7	100
46	Intramolecularly Cross-Linked Polymers: From Structure to Function with Applications as Artificial Antibodies and Artificial Enzymes. Accounts of Chemical Research, 2020, 53, 1244-1256.	15.6	100
47	Engineering the Surface of Therapeutic â€œLivingâ€•Cells. Chemical Reviews, 2018, 118, 1664-1690.	47.7	93
48	Targeting Toxic RNAs that Cause Myotonic Dystrophy Type 1 (DM1) with a Bisamidinium Inhibitor. Journal of the American Chemical Society, 2014, 136, 6355-6361.	13.7	91
49	Direct, Electrocatalytic Oxygen Reduction by Laccase on Anthracene-2-methanethiol-Modified Gold. Journal of Physical Chemistry Letters, 2010, 1, 2251-2254.	4.6	88
50	Interplay of Fidelity, Binding Strength, and Structure in Supramolecular Polymers. Journal of the American Chemical Society, 2006, 128, 14236-14237.	13.7	86
51	High-Affinity DNA Base Analogs as Supramolecular, Nanoscale Promoters of Macroscopic Adhesion. Journal of the American Chemical Society, 2013, 135, 7288-7295.	13.7	84
52	Polymeric â€œClickaseâ€•Accelerates the Copper Click Reaction of Small Molecules, Proteins, and Cells. Journal of the American Chemical Society, 2019, 141, 9693-9700.	13.7	84
53	Analysis of Amidinium Guest Complexation by Comparison of Two Classes of Dendrimer Hosts Containing a Hydrogen Bonding Unit at the Core. Journal of the American Chemical Society, 1998, 120, 2172-2173.	13.7	83
54	Synthesis and structure of molecular tweezers containing active site functionality. Journal of the American Chemical Society, 1991, 113, 183-196.	13.7	79

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55	Hydrogen Bonding Modules for Use in Supramolecular Polymers. Israel Journal of Chemistry, 2013, 53, 511-520.	2.3	78
56	Single-Chain Nanoparticle Delivers a Partner Enzyme for Concurrent and Tandem Catalysis in Cells. Journal of the American Chemical Society, 2020, 142, 4565-4569.	13.7	76
57	Highly efficient complexation of a .pi.-acceptor by a molecular tweezer containing two .pi.-donors: the role of preorganization. Journal of the American Chemical Society, 1989, 111, 8528-8530.	13.7	75
58	Synthesis of Nanosized â€œCoredâ€•Star Polymers. Macromolecules, 2004, 37, 778-787.	4.8	75
59	Organic Nanoparticles Whose Size and Rigidity Are Finely Tuned by Cross-Linking the End Groups of Dendrimers. Journal of the American Chemical Society, 2004, 126, 11420-11421.	13.7	74
60	Leukocyte-Mimicking Stem Cell Delivery via in Situ Coating of Cells with a Bioactive Hyperbranched Polyglycerol. Journal of the American Chemical Society, 2013, 135, 8770-8773.	13.7	74
61	Asymmetric synthesis of amino acids by pyridoxamine enzyme analogs utilizing general base-acid catalysis. Journal of the American Chemical Society, 1984, 106, 1490-1491.	13.7	71
62	Hydrogen bonded complexes with the AAÂ·DD, AAÂ·DDD, and AAAÂ·DD motifs: The role of three centered (bifurcated) hydrogen bonding. Tetrahedron Letters, 1994, 35, 4077-4080.	1.4	70
63	Cross-Linked Hyperbranched Polyglycerols as Hosts for Selective Binding of Guest Molecules. Journal of the American Chemical Society, 2009, 131, 10574-10580.	13.7	68
64	Synthesis of heterocyclic compounds containing three contiguous hydrogen bonding sites in all possible arrangements. Tetrahedron, 1995, 51, 635-648.	1.9	66
65	Synthesis of Cored Dendrimers with Internal Cross-Links. Angewandte Chemie - International Edition, 2001, 40, 1962-1966.	13.8	65
66	Convenient synthesis of 2-amino-1,8-naphthyridines, building blocks for host-guest and self-assembling systems. Journal of Organic Chemistry, 1993, 58, 6625-6628.	3.2	64
67	Practical synthesis of water-soluble organic nanoparticles with a single reactive group and a functional carrier scaffold. Chemical Science, 2014, 5, 2862-2868.	7.4	63
68	New Frontiers for Encapsulation in the Chemical Industry. ACS Applied Materials & Interfaces, 2015, 7, 6359-6368.	8.0	62
69	Supramolecular polymer chemistry: design, synthesis, characterization, and kinetics, thermodynamics, and fidelity of formation of self-assembled dendrimers. Tetrahedron, 2002, 58, 825-843.	1.9	60
70	Crossâ€Linked Glycerol Dendrimers and Hyperbranched Polymers as Ionophoric, Organic Nanoparticles Soluble in Water and Organic Solvents. Angewandte Chemie - International Edition, 2007, 46, 8164-8167.	13.8	59
71	Dendrimers in molecular recognition and self-assembly. Current Opinion in Colloid and Interface Science, 1997, 2, 89-99.	7.4	58
72	Trigger Chemistries for Better Industrial Formulations. ACS Applied Materials & Interfaces, 2015, 7, 6369-6382.	8.0	58

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73	Synthesis of a Soluble Ureido-Naphthyridine Oligomer that Self-Associates via Eight Contiguous Hydrogen Bonds. Organic Letters, 2005, 7, 3005-3008.	4.6	57
74	Photoresponsive Crosslinked Hyperbranched Polyglycerols as Smart Nanocarriers for Guest Binding and Controlled Release. Small, 2009, 5, 2199-2204.	10.0	56
75	A double supramolecular crosslinked polymer gel exhibiting macroscale expansion and contraction behavior and multistimuli responsiveness. Polymer Chemistry, 2015, 6, 1912-1917.	3.9	56
76	Topologically constrained bifunctional intercalators: DNA intercalation by a macrocyclic bisacridine. Journal of the American Chemical Society, 1989, 111, 6805-6809.	13.7	54
77	A Novel CUG^{exp}Â·MBNL1 Inhibitor with Therapeutic Potential for Myotonic Dystrophy Type 1. ACS Chemical Biology, 2013, 8, 1037-1043.	3.4	54
78	Dendrimers with anthyridine-based hydrogen-bonding units at their cores: Synthesis, complexation and self-assembly studies. Tetrahedron Letters, 1997, 38, 5459-5462.	1.4	53
79	Clickable polyglycerol hyperbranched polymers and their application to gold nanoparticles and acid-labile nanocarriers. Chemical Communications, 2011, 47, 1279-1281.	4.1	53
80	A New Route to Organic Nanotubes from Porphyrin Dendrimers. Angewandte Chemie, 2003, 115, 1153-1158.	2.0	51
81	On the Nature of Dendrimer Cross-Linking by Ring-Closing Metathesis. Journal of the American Chemical Society, 2004, 126, 13576-13577.	13.7	51
82	Developing Bivalent Ligands to Target CUG Triplet Repeats, the Causative Agent of Myotonic Dystrophy Type 1. Journal of Medicinal Chemistry, 2013, 56, 9471-9481.	6.4	51
83	Proton switch for modulating oxygen reduction by a copper electrocatalyst embedded in a hybrid bilayer membrane. Nature Materials, 2014, 13, 619-623.	27.5	51
84	Kinetics and Thermodynamics of Amine and Diamine Signaling by a Trifluoroacetyl Azobenzene Reporter Group. Organic Letters, 2003, 5, 3127-3130.	4.6	50
85	A polymeric approach toward resistance-resistant antimicrobial agent with dual-selective mechanisms of action. Science Advances, 2021, 7, .	10.3	50
86	Model Studies Directed toward a General Triplex DNA Recognition Scheme: A Novel DNA Base That Binds a CG Base-Pair in an Organic Solvent. Journal of the American Chemical Society, 1995, 117, 10769-10770.	13.7	48
87	Chemical Control over Cellular Uptake of Organic Nanoparticles by Fine Tuning Surface Functional Groups. ACS Nano, 2015, 9, 10227-10236.	14.6	47
88	Synthesis of Polyglycerol, Porphyrinâ€Cored Dendrimers Using Click Chemistry. European Journal of Organic Chemistry, 2008, 2008, 3845-3851.	2.4	46
89	Highly Effective Hydrogen-Bonding Receptors for Guanine Derivatives. Angewandte Chemie International Edition in English, 1995, 34, 2163-2165.	4.4	45
90	A Polymeric Fastener Can Easily Functionalize Liposome Surfaces with Gadolinium for Enhanced Magnetic Resonance Imaging. ACS Nano, 2013, 7, 9599-9610.	14.6	45

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91	Quantitative Host-Guest Complexation Studies Using Chemically Bonded Stationary Phases. A Comparison of HPLC and Solution Enthalpies. Journal of the American Chemical Society, 1995, 117, 1175-1176.	13.7	44
92	Higher Affinity Quadruply Hydrogen-Bonded Complexation with 7-Deazaguanine Urea. Organic Letters, 2006, 8, 1589-1592.	4.6	43
93	Acid-Triggered, Acid-Generating, and Self-Amplifying Degradable Polymers. Journal of the American Chemical Society, 2019, 141, 2838-2842.	13.7	43
94	Intramolecular general base-acid catalysis in transaminations catalyzed by pyridoxamine enzyme analogs. Journal of the American Chemical Society, 1983, 105, 1694-1695.	13.7	42
95	Molecular Tweezers as Synthetic Receptors: Molecular Recognition of Electron-Deficient Aromatic Substrates by Chemically Bonded Stationary Phases. European Journal of Organic Chemistry, 1999, 1999, 2741-2749.	2.4	42
96	Fidelity in the supramolecular assembly of triply and quadruply hydrogen-bonded complexes. Israel Journal of Chemistry, 2005, 45, 381-389.	2.3	41
97	Selective inhibition of MBNL1â€“CCUG interaction by small molecules toward potential therapeutic agents for myotonic dystrophy type 2 (DM2) â€. Nucleic Acids Research, 2011, 39, 8881-8890.	14.5	40
98	A Bioorthogonal Small Molecule Selective Polymeric â€œClickaseâ€. Journal of the American Chemical Society, 2020, 142, 13966-13973.	13.7	40
99	Interaction of a macrocyclic bisacridine with DNA. Biochemistry, 1990, 29, 10918-10927.	2.5	39
100	Intrinsically cell-penetrating multivalent and multitargeting ligands for myotonic dystrophy type 1. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8709-8714.	7.1	39
101	Mimics of tryptophan synthetase and of biochemical dehydroalanine formation. Journal of the American Chemical Society, 1985, 107, 4093-4094.	13.7	38
102	Bis-ureidodeazapterin (Bis-DeAP) as a general route to supramolecular star polymers. Tetrahedron, 2008, 64, 8558-8570.	1.9	38
103	Hydrogen-Bonded DeUGÂ·DAN Heterocomplex: Structure and Stability and a Scalable Synthesis of DeUG with Reactive Functionality. Organic Letters, 2009, 11, 61-64.	4.6	38
104	7-amido-1,8-naphthyridines as hydrogen bonding units for the complexation of guanine derivatives: The role of 2-alkoxyl groups in decreasing binding affinity. Tetrahedron Letters, 1995, 36, 7627-7630.	1.4	37
105	With Regard to the Hydrogen Bonding in Complexes of Pyridylureas, Less Is More. A Role for Shape Complementarity and CHÂ·Â·Â·O Interactions?. Organic Letters, 2004, 6, 1649-1652.	4.6	37
106	A Potent Inhibitor of Protein Sequestration by Expanded Triplet (CUG) Repeats that Shows Phenotypic Improvements in a Drosophila Model of Myotonic Dystrophy. ChemMedChem, 2016, 11, 1428-1435.	3.2	36
107	An ABC Stacking Supramolecular Discotic Columnar Structure Constructed via Hydrogen-Bonded Hexamers. Chemistry of Materials, 2004, 16, 2975-2977.	6.7	35
108	Syn and anti-oriented imidazole carboxylates as models for the histidine-aspartate couple in serine proteases and other enzymes. Tetrahedron, 1991, 47, 2649-2660.	1.9	34

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109	Molecular recognition of a thymine bulge by a high affinity, deazaguanine-based hydrogen-bonding ligand. Chemical Communications, 2009, , 668-670.	4.1	34
110	Synthesis and properties of fluorescent dyes conjugated to hyperbranched polyglycerols. New Journal of Chemistry, 2012, 36, 419-427.	2.8	33
111	pH-Triggered Release from Polyamide Microcapsules Prepared by Interfacial Polymerization of a Simple Diester Monomer. ACS Macro Letters, 2017, 6, 321-325.	4.8	33
112	SANS investigation of self-assembling dendrimers in organic solvents. Journal of Materials Chemistry, 1997, 7, 1221-1226.	6.7	31
113	A monomolecularly imprinted dendrimer (MID) capable of selective binding with a tris(2-aminoethyl)amine guest through multiple functional group interactionsElectronic supplementary information (ESI) available: compound characterization data and representative UV-visible binding data with Kassoc plots. See http://www.rsc.org/suppdata/cc/b3/b316248f/. Chemical Communications, 2004, , 488.	4.1	31
114	Crosslinked dendronized polyols as a general approach to brighter and more stable fluorophores. Chemical Communications, 2016, 52, 3781-3784.	4.1	31
115	Cross-Linking Dendrimers with Allyl Ether End-Groups Using the Ring-Closing Metathesis Reaction. Journal of Organic Chemistry, 2004, 69, 7363-7366.	3.2	30
116	Degradable dendrimers divergently synthesized via click chemistry. Chemical Communications, 2009, , 794.	4.1	30
117	Patterning Three-Dimensional Hydrogel Microenvironments Using Hyperbranched Polyglycerols for Independent Control of Mesh Size and Stiffness. Biomacromolecules, 2017, 18, 1393-1400.	5.4	30
118	Bottom-Up Strategy To Prepare Nanoparticles with a Single DNA Strand. Journal of the American Chemical Society, 2017, 139, 3623-3626.	13.7	30
119	Stereoelectronic effects at carboxylate: a syn-oriented model for the histidine-aspartate couple in enzymes. Journal of the American Chemical Society, 1988, 110, 5906-5908.	13.7	29
120	Hydrophilic packaging of iron oxide nanoclusters for highly sensitive imaging. Biomaterials, 2015, 69, 184-190.	11.4	29
121	Photoresponsive Molecular Switch for Regulating Transmembrane Proton-Transfer Kinetics. Journal of the American Chemical Society, 2015, 137, 14059-14062.	13.7	29
122	Structural Basis for Targeting T:T Mismatch with Triaminotriazine-Acridine Conjugate Induces a U-Shaped Head-to-Head Four-Way Junction in CTG Repeat DNA. Journal of the American Chemical Society, 2020, 142, 11165-11172.	13.7	28
123	Kinetic effect of a syn-oriented carboxylate on a proximate imidazole in catalysis: a model for the histidine-aspartate couple in enzymes. Journal of the American Chemical Society, 1990, 112, 3680-3682.	13.7	27
124	A very versatile nanocapsule. Nature Nanotechnology, 2007, 2, 201-202.	31.5	27
125	Room Temperature, Copper-Catalyzed Amination of Bromonaphthyridines with Aqueous Ammonia. Journal of Organic Chemistry, 2010, 75, 4848-4851.	3.2	27
126	Single-molecule study of the CUG repeatâ€“MBNL1 interaction and its inhibition by small molecules. Nucleic Acids Research, 2013, 41, 6687-6697.	14.5	27

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127	A journey in bioinspired supramolecular chemistry: from molecular tweezers to small molecules that target myotonic dystrophy. Beilstein Journal of Organic Chemistry, 2016, 12, 125-138.	2.2	26
128	Integrating Display and Delivery Functionality with a Cell Penetrating Peptide Mimic as a Scaffold for Intracellular Multivalent Multitargeting. Journal of the American Chemical Society, 2016, 138, 9498-9507.	13.7	26
129	Polyglycerolâ€Dendronized Perylenediimides as Stable, Waterâ€Soluble Fluorophores. Advanced Functional Materials, 2012, 22, 3023-3028.	14.9	25
130	Molecular Tweezers: Synthetic Receptors for Ï€-Sandwich Complexation of Aromatic Substrates. Bioorganic Chemistry Frontiers, 1991, , 33-71.	1.2	25
131	Synthesis of heterocycles containing two cytosine or two guanine base-pairing sites. Novel tectons for self-assembly. Bioorganic and Medicinal Chemistry, 1996, 4, 1107-1112.	3.0	24
132	Synthesis and duplex DNA recognition studies of oligonucleotides containing a ureido isoindolin-1-one homo-N-nucleoside. A comparison of hostâ€“guest and DNA recognition studies. Bioorganic and Medicinal Chemistry, 2004, 12, 1517-1526.	3.0	24
133	Quadruply Hydrogen Bonding Modules as Highly Selective Nanoscale Adhesive Agents. Organic Letters, 2013, 15, 3506-3509.	4.6	24
134	A Comparison of Enthalpies of Formation in Solution and Enthalpies for HPLC Retention for Hydrogen-Bonded Hostâ€”Guest Complexes. Angewandte Chemie International Edition in English, 1995, 34, 2404-2406.	4.4	23
135	Synthetic Receptors for CG Base Pairs. Organic Letters, 2000, 2, 2931-2934.	4.6	23
136	The Flip-Flop Diffusion Mechanism across Lipids in a Hybrid Bilayer Membrane. Biophysical Journal, 2016, 110, 2451-2462.	0.5	23
137	Improved binding of adenine by a synthetic receptor. Journal of Organic Chemistry, 1990, 55, 4789-4791.	3.2	22
138	Anion Transport through Lipids in a Hybrid Bilayer Membrane. Analytical Chemistry, 2015, 87, 2403-2409.	6.5	22
139	Substituted 1,3,5â€Triazaadamantanes: Biocompatible and Degradable Building Blocks. Angewandte Chemie - International Edition, 2008, 47, 8072-8074.	13.8	21
140	Small Molecules that Target the Toxic RNA in Myotonic Dystrophy Typeâ€…2. ChemMedChem, 2014, 9, 2455-2462.	3.2	21
141	Synthesis of 2,4(5)-bis(hydroxymethyl)imidazoles and 2,4(5)-bis[(2-hydroxyethoxy)methyl]imidazoles. Precursors of 2,4(5)-connected imidazole crown ethers. Journal of Organic Chemistry, 1989, 54, 1256-1264.	3.2	20
142	Structureâ^'Function Studies on a Synthetic Guanosine Receptor That Simultaneously Binds Watsonâ^'Crick and Hoogsteen Sites. Journal of Organic Chemistry, 2005, 70, 7459-7467.	3.2	19
143	Convenient synthesis of 9-alkyl and 9-arylacridines from [2 - (trimethylsilyl) ethoxy] methyl (sem) protected acridone. Tetrahedron Letters, 1988, 29, 5123-5124.	1.4	18
144	Integrating chemosensors for amine-containing compounds into cross-linked dendritic hosts. Tetrahedron, 2004, 60, 11191-11204.	1.9	18

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145	Base-triggered self-amplifying degradable polyurethanes with the ability to translate local stimulation to continuous long-range degradation. Chemical Science, 2020, 11, 3326-3331.	7.4	18
146	Investigating the Binding Mode of an Inhibitor of the MBNL1â‹…RNA Complex in Myotonic Dystrophy Type 1 (DM1) Leads to the Unexpected Discovery of a DNAâ€Selective Binder. ChemBioChem, 2012, 13, 2505-2509.	2.6	17
147	CAG RNAs induce DNA damage and apoptosis by silencing NUDT16 expression in polyglutamine degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
148	Syntheses relevant to vitamin B12 biosynthesis: synthesis of sirohydrochlorin and of its octamethyl ester. Journal of the Chemical Society Chemical Communications, 1985, , 1061.	2.0	16
149	Top-down Synthesis of Versatile Polyaspartamide Linkers for Single-Step Protein Conjugation to Materials. Bioconjugate Chemistry, 2011, 22, 2377-2382.	3.6	16
150	Synthetic studies relevant to biosynthetic research on vitamin B12. Part 8. Synthesis of (Â±)-Faktor-I octamethyl ester. Journal of the Chemical Society Perkin Transactions 1, 1988, , 1577-1586.	0.9	15
151	Exploring the Reversibility of the Ring-Closing Metathesis Mediated Cross-linking of Dendrimers. Macromolecules, 2007, 40, 8114-8118.	4.8	15
152	Tandem catalysis using an enzyme and a polymeric ruthenium-based artificial metalloenzyme. Polymer Chemistry, 2021, 12, 6755-6760.	3.9	15
153	Worm-Like Superparamagnetic Nanoparticle Clusters for Enhanced Adhesion and Magnetic Resonance Relaxivity. ACS Applied Materials & Interfaces, 2017, 9, 1219-1225.	8.0	14
154	Synthesis relevant to vitamin B12biosynthesis: synthesis of (Â±)Faktor-I octamethyl ester. Journal of the Chemical Society Chemical Communications, 1985, .	2.0	13
155	The synthesis and novel structure of methyl 7-phenyl-dibenz[a,j] anthracene-14-carboxylate and methyl 5-phenyl-benzo[1,2-h:5,4-hâ€²]diquinoline-3-carboxylate: Rigid semi-helical aromatic spacers with convergent functional groups. Tetrahedron Letters, 1988, 29, 983-986.	1.4	13
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