

Jay S Siegel

List of Publications by Year in descending order

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285
papers

14,433
citations

17405

63
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25716

108
g-index

342
all docs

342
docs citations

342
times ranked

9745
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous assembly of double-stranded helicates from oligobipyridine ligands and copper(I) cations: structure of an inorganic double helix.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 2565-2569.	3.3	798
2	Aromatic Molecular-Bowl Hydrocarbons: A Synthetic Derivatives, Their Structures, and Physical Properties. Chemical Reviews, 2006, 106, 4843-4867.	23.0	754
3	Stereoisomerism and local chirality. Journal of the American Chemical Society, 1984, 106, 3319-3328.	6.6	409
4	Dominance of polar/ π over charge-transfer effects in stacked phenyl interactions. Journal of the American Chemical Society, 1993, 115, 5330-5331.	6.6	387
5	Discovery of a Novel Binding Trench in HIV Integrase. Journal of Medicinal Chemistry, 2004, 47, 1879-1881.	2.9	341
6	Polar/ π interactions between stacked aryls in 1,8-diarylnaphthalenes. Journal of the American Chemical Society, 1992, 114, 5729-5733.	6.6	317
7	Proton-Catalyzed, Silane-Fueled Friedel-Crafts Coupling of Fluoroarenes. Science, 2011, 332, 574-577.	6.0	289
8	Polar Interactions between Stacked π Systems in Fluorinated 1,8-Diarylnaphthalenes: Importance of Quadrupole Moments in Molecular Recognition. Angewandte Chemie International Edition in English, 1995, 34, 1019-1020.	4.4	286
9	Structure/Energy Correlation of Bowl Depth and Inversion Barrier in Corannulene Derivatives: A Combined Experimental and Quantum Mechanical Analysis. Journal of the American Chemical Society, 2001, 123, 517-525.	6.6	270
10	Synthesis and dynamics of the corannulene nucleus. Journal of the American Chemical Society, 1992, 114, 1921-1923.	6.6	243
11	Synthesis of Corannulene and Alkyl Derivatives of Corannulene. Journal of the American Chemical Society, 1999, 121, 7804-7813.	6.6	227
12	Interaction between stacked aryl groups in 1,8-diarylnaphthalenes: Dominance of polar/ π over charge-transfer effects. Pure and Applied Chemistry, 1995, 67, 683-689.	0.9	219
13	Kilogram-Scale Production of Corannulene. Organic Process Research and Development, 2012, 16, 664-676.	1.3	214
14	Phenyl/Pentafluorophenyl Interactions and the Generation of Ordered Mixed Crystals: sym-Triphenethynylbenzene and sym-Tris(perfluorophenethynyl)benzene. Angewandte Chemie - International Edition, 2000, 39, 2323-2325.	7.2	183
15	Homochiral imperative of molecular evolution. Chirality, 1998, 10, 24-27.	1.3	180
16	Enantioselective Synthesis of Copper(I) Bipyridine Based Helicates by Chiral Templating of Secondary Structure: Transmission of Stereochemistry on the Nanometer Scale. Angewandte Chemie International Edition in English, 1996, 35, 1830-1833.	4.4	179
17	Second-harmonic generation from non-dipolar non-centrosymmetric aromatic charge-transfer molecules. Chemical Physics Letters, 1990, 172, 440-444.	1.2	172
18	Dichlorofluoromethane-d: a versatile solvent for VT-NMR experiments. Journal of Organic Chemistry, 1988, 53, 2629-2630.	1.7	159

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19	Induced-fit catalysis of corannulene bowl-to-bowl inversion. <i>Nature Chemistry</i> , 2014, 6, 222-228.	6.6	149
20	Synthesis and Characterization of the First Corannulene Cyclophane. <i>Journal of the American Chemical Society</i> , 1996, 118, 2754-2755.	6.6	136
21	Bond alternation in triannelated benzenes: dissection of cyclic π from Mills-Nixon effects. <i>Journal of the American Chemical Society</i> , 1992, 114, 9583-9587.	6.6	131
22	Multiethynyl Corannulenes: Synthesis, Structure, and Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 10729-10739.	6.6	130
23	X-Ray Diffraction Evidence for a Cyclohexatriene Motif in the Molecular Structure of Tris(bicyclo[2.1.1]hexeno)benzene: Bond Alternation after the Refutation of the Mills-Nixon Theory. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1454-1456.	4.4	129
24	Synthesis of Fluoranthenes and Indenocorannulenes: Elucidation of Chiral Stereoisomers on the Basis of Static Molecular Bowls. <i>Journal of the American Chemical Society</i> , 2006, 128, 6870-6884.	6.6	125
25	Hexahapto Metal Coordination to Curved Polyaromatic Hydrocarbon Surfaces: The First Transition Metal Corannulene Complex. <i>Journal of the American Chemical Society</i> , 1997, 119, 4781-4782.	6.6	124
26	Molecular Spur Gears Comprising Triptycene Rotators and Bibenzimidazole-Based Stators. <i>Journal of the American Chemical Society</i> , 2012, 134, 1528-1535.	6.6	122
27	Through-space interactions between face-to-face, center-to-edge oriented arenes: importance of polarizability effects. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 157-162.	1.5	114
28	C_{60} /Corannulene on Cu(110): A Surface-Supported Bistable Buckybowl-Buckyball Host-Guest System. <i>Journal of the American Chemical Society</i> , 2008, 130, 4767-4771.	6.6	109
29	Corannulene Pentapetales. <i>Journal of the American Chemical Society</i> , 2019, 141, 5402-5408.	6.6	109
30	Wide-Ranging Host Capability of a Pd-Linked $M_{2}L_{4}$ Molecular Capsule with an Anthracene Shell. <i>Chemistry - A European Journal</i> , 2013, 19, 6313-6320.	1.7	106
31	Synthesis and Fluorescence Properties of Manisyl-Substituted Terpyridine, Bipyridine, and Phenanthroline. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 754-757.	7.2	105
32	Spectroscopic determination of trap density in C_{60} -sensitized photorefractive polymers. <i>Chemical Physics Letters</i> , 1998, 291, 553-561.	1.2	103
33	Synthesis and Characterization of Trisbicyclo[2.1.1]hexabenzene, a Highly Strained Bicycloannelated Benzene. <i>Journal of the American Chemical Society</i> , 1995, 117, 2102-2103.	6.6	100
34	CHEMISTRY: Chemical Topology and Interlocking Molecules. <i>Science</i> , 2004, 304, 1256-1258.	6.0	98
35	Mills-Nixon Effect: Wherefore Art Thou?. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1721-1723.	4.4	95
36	Molecular design, chemical synthesis, kinetic studies, calculations, and biological studies of novel enediynes equipped with triggering, detection, and deactivating devices. Model dynemicin A epoxide and cis-diol systems. <i>Journal of the American Chemical Society</i> , 1993, 115, 7944-7953.	6.6	94

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37	C ₁₂ F Activation of Fluorobenzene by Silylium Carboranes: Evidence for Incipient Phenyl Cation Reactivity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7519-7522.	7.2	94
38	Correlation of Empirical δ (TMS) and Absolute NMR Chemical Shifts Predicted by ab Initio Computations. <i>Journal of Physical Chemistry A</i> , 1999, 103, 4038-4042.	1.1	87
39	Synthetic Approaches to a Molecular Borromean Link: Two-Ring Threading with Polypyridine Templates. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5702-5705.	7.2	87
40	Synthesis and Quantum Mechanical Structure of sym-Pentamethylcorannulene and Decamethylcorannulene. <i>Journal of the American Chemical Society</i> , 1999, 121, 7439-7440.	6.6	86
41	Through-space interactions between parallel-offset arenes at the van der Waals distance: 1,8-diarylbiophenylene syntheses, structure and QM computations. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2686.	1.3	85
42	Tunable star-shaped triphenylamine fluorophores for fluorescence quenching detection and identification of nitro-aromatic explosives. <i>Chemical Communications</i> , 2013, 49, 780-782.	2.2	85
43	Synthesis and Properties of sym-Pentamethyl Derivatives of Corannulene. <i>Organic Letters</i> , 2003, 5, 713-716.	2.4	84
44	Buckybowls on Metal Surfaces: Symmetry Mismatch and Enantiomorphism of Corannulene on Cu(110). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8258-8261.	7.2	81
45	Simple one-step synthesis of 3-bromo- and 3,8-dibromo-1,10-phenanthroline: Fundamental building blocks in the design of metal chelates. <i>Tetrahedron Letters</i> , 1995, 36, 3489-3490.	0.7	80
46	Identification of a small-molecule binding site at the dimer interface of the HIV integrase catalytic domain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 536-544.	2.5	80
47	Polare Wechselwirkungen zwischen gestapelten π -Systemen in fluorierten 1,8-Diarylnaphthalinen: Bedeutung des Quadrupolmoments für die molekulare Erkennung. <i>Angewandte Chemie</i> , 1995, 107, 1092-1094.	1.6	77
48	Synthesis of arylbromides from arenes and <i>N</i> -bromosuccinimide (NBS) in acetonitrile – A convenient method for aromatic bromination. <i>Canadian Journal of Chemistry</i> , 2009, 87, 440-447.	0.6	77
49	Building 2D Crystals from 5-Fold-Symmetric Molecules. <i>Journal of the American Chemical Society</i> , 2009, 131, 3460-3461.	6.6	77
50	Corannulene-based fullerene fragments C ₂₀ H ₁₀ -C ₅₀ H ₁₀ : when does a buckyball become a buckytube?. <i>Theoretical Chemistry Accounts</i> , 1997, 97, 67-71.	0.5	75
51	Synthesis of 2,6-Diaryldimethylsilyl Cations: Polarizability Distribution of Cation Character. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1719-1722.	7.2	74
52	Thiophene-fused bowl-shaped polycyclic aromatics with a dibenzo[a,g]corannulene core for organic field-effect transistors. <i>Chemical Communications</i> , 2015, 51, 1681-1684.	2.2	72
53	Synthesis of Unsubstituted and 4,4'-Substituted Oligobipyridines as Ligand Strands for Helicate Self-Assembly. <i>Helvetica Chimica Acta</i> , 1991, 74, 594-610.	1.0	71
54	Structural, Optical, and Electrochemical Properties of Three-Dimensional Push-Pull Corannulenes. <i>Journal of Organic Chemistry</i> , 2012, 77, 11014-11026.	1.7	71

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55	Controlled Oxygen Release from Pyridone Endoperoxides Promotes Cell Survival under Anoxic Conditions. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 10171-10182.	2.9	71
56	Corannulene derivatives as non-fullerene acceptors in solution-processed bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20515-20519.	5.2	69
57	Synthesis of sec-alkylacetylenes. Reduction of cobalt carbonyl complexes of acetylenic alcohols. <i>Journal of the American Chemical Society</i> , 1985, 107, 4999-5001.	6.6	68
58	Through-Space Polar- π . Effects on the Acidity and Hydrogen-Bonding Capacity of Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 1994, 116, 5959-5960.	6.6	68
59	δ^8 Rhodium and Iridium Complexes of Corannulene. <i>Journal of the American Chemical Society</i> , 2006, 128, 10644-10645.	6.6	67
60	Effect of transition-metal complexation on the stereodynamics of persubstituted arenes. Evidence for steric complementarity between arene and metal tripod. <i>Journal of the American Chemical Society</i> , 1992, 114, 255-261.	6.6	66
61	Dodecamethoxy- and Hexaoxotricyclobutabenzene: Synthesis and Characterization. <i>Journal of the American Chemical Society</i> , 2006, 128, 10032-10033.	6.6	66
62	Homochiral imperative of molecular evolution. <i>Chirality</i> , 1998, 10, 24-27.	1.3	66
63	Reversible Phase Transitions in a Buckybowl Monolayer. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1966-1969.	7.2	65
64	Anion mediated structural motifs in silver(i) complexes with corannulene. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 407-413.	1.5	64
65	Trinuclear Copper(I)-bipyridine Triskelion: Template/Bascule Control of Coordination Complex Stereochemistry in a Trefoil Knot Precursor. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 749-751.	7.2	63
66	La coupe du roi and its relevance to stereochemistry. Combination of two homochiral molecules to give an achiral product. <i>Journal of the American Chemical Society</i> , 1983, 105, 1419-1426.	6.6	60
67	An S_{10} -Symmetric 5-Fold Interlocked [2]Catenane. <i>Journal of the American Chemical Society</i> , 2020, 142, 10267-10272.	6.6	60
68	Intramolecular Halogen Stabilization of Silylium Ions Directs Gearing Dynamics. <i>Journal of the American Chemical Society</i> , 2010, 132, 7828-7829.	6.6	58
69	Synthesis, Structures, and Physical Properties of Aromatic Molecular-Bowl Hydrocarbons. <i>Topics in Current Chemistry</i> , 2014, 349, 63-120.	4.0	57
70	Static and dynamic stereochemistry of hexaisopropylbenzene: a gear-meshed hydrocarbon of exceptional rigidity. <i>Journal of the American Chemical Society</i> , 1986, 108, 1569-1575.	6.6	56
71	A New Class of HIV-1 Integrase Inhibitors: The 3,3,3-Tetramethyl-1,1-spirobi(indan)-5,6-tetraol Family. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 2031-2039.	2.9	56
72	Synthesis of trioxatricornan and derivatives. Useful keystones for the construction of rigid molecular cavities. <i>Journal of Organic Chemistry</i> , 1992, 57, 61-69.	1.7	55

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73	Extended Corannulenes: Aromatic Bowl/Sheet Hybridization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10792-10796.	7.2	55
74	Poly(methylhydrosiloxane)-supported chiral imidazolinones: new versatile, highly efficient and recyclable organocatalysts for stereoselective Diels-Alder cycloaddition reactions. <i>Chemical Communications</i> , 2012, 48, 3188.	2.2	54
75	Tetranuclear Copper(I)-Biphenanthroline Gridwork: Violation of the Principle of Maximal Donor Coordination Caused by Intercalation and CH-to-N Forces. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 751-754.	7.2	53
76	Does π - π Through-Bond Coupling Significantly Increase C-C Bond Lengths?. <i>Journal of the American Chemical Society</i> , 1997, 119, 7048-7054.	6.6	52
77	The Nature of the Long Bond in 3,8-Dichloro-1,1,2,2-tetraphenylcyclobuta[b]naphthene. <i>Journal of the American Chemical Society</i> , 1998, 120, 6167-6168.	6.6	50
78	Control of functional group proximity and direction by conformational networks: synthesis and stereodynamics of persubstituted arenes. <i>Tetrahedron</i> , 2001, 57, 3615-3627.	1.0	50
79	Stereoselective Coordination of C_{5v} -Symmetric Corannulene Derivatives with an Enantiomerically Pure $[Rh(I)(\text{P}^*)]$ Metal Complex. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 865-867.	7.2	50
80	Ionization of corannulene and 1,6-dimethylcorannulene: photoelectron spectra, electrochemistry, charge transfer bands and ab initio computations. <i>Tetrahedron Letters</i> , 2000, 41, 4519-4522.	0.7	49
81	Synthesis of achiral and racemic catenanes based on terpyridine and a directionalized terpyridine mimic, pyridyl-phenanthroline. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 3105.	1.5	49
82	Steric Isotope Effects Gauged by the Bowl-Inversion Barrier in Selectively Deuterated Pentaarylcorannulenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 1583-1591.	6.6	49
83	Quantum Mechanical Designs toward Planar Delocalized Cyclooctatetraene: A New Target for Synthesis. <i>Journal of the American Chemical Society</i> , 2001, 123, 1755-1759.	6.6	48
84	Chiral Conflict among Different Helicenes Suppresses Formation of One Enantiomorph in 2D Crystallization. <i>Journal of the American Chemical Society</i> , 2013, 135, 7434-7437.	6.6	48
85	Integration complexes derived from HIV vectors for rapid assays in vitro. <i>Nature Biotechnology</i> , 1999, 17, 578-582.	9.4	47
86	Enantioselective Synthese von Helicaten auf Bipyridin-Kupfer-Basis durch den Templateffekt eines chiralen Sekundärstrukturelements: Übertragung von stereochemischer Information im Nanometerbereich. <i>Angewandte Chemie</i> , 1996, 108, 1977-1980.	1.6	46
87	Ab Initio Density Functional vs Hartree Fock Predictions for the Structure of [18]Annulene: Evidence for Bond Localization and Diminished Ring Currents in Bicycloannelated [18]Annulenes. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 745-748.	4.4	45
88	Structure and reactivity of illudins. <i>Tetrahedron</i> , 1989, 45, 5433-5440.	1.0	44
89	Competition between π -Arene and Lone-Pair Halogen Coordination of Silylium Ions?. <i>Journal of the American Chemical Society</i> , 2011, 133, 11844-11846.	6.6	44
90	Pentaindenocorannulene: Properties, Assemblies, and C_{60} Complex. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14648-14652.	7.2	44

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91	Balancing steric and electronic factors in push-pull benzenes: an ab initio study on the molecular structure of 1,3,5-triamino-2,4,6-trinitrobenzene and related compounds. <i>Journal of the American Chemical Society</i> , 1993, 115, 10782-10785.	6.6	43
92	Long C _i -C single bonds in anthracene dimers: The structure of bi(anthracene-9,10-dimethylene) photodimer is redetermined. <i>Tetrahedron Letters</i> , 1995, 36, 845-848.	0.7	43
93	Synthesis, structure, and dynamics of endo-(starphenylene)chromium tricarbonyl derivatives: observation of metal-arene migration and hindered metal-tripod rotation. <i>Journal of the American Chemical Society</i> , 1993, 115, 6138-6142.	6.6	42
94	Partial bond localization in the crystal structure of trisbicyclo[2.2.1]heptabenzene and its effect on Cr-arene dynamics. <i>Tetrahedron Letters</i> , 1995, 36, 4389-4392.	0.7	42
95	Synthesis of pyridylstannanes from halopyridines and hexamethyldistannane with catalytic palladium. <i>Tetrahedron Letters</i> , 1997, 38, 4737-4740.	0.7	42
96	C _i F Activation of Fluorobenzene by Silylium Carboranes: Evidence for Incipient Phenyl Cation Reactivity. <i>Angewandte Chemie</i> , 2010, 122, 7681-7684.	1.6	42
97	Kristallographischer Nachweis der Cyclohexatrien-Struktur von Tris(bicyclo[2.1.1]hexeno)benzol: Bindungslängenalternanz nach Widerlegung der Mills-Nixon-Theorie. <i>Angewandte Chemie</i> , 1995, 107, 1575-1577.	1.6	41
98	Synthesis, structures, and dynamics of a macrocyclophane. <i>Journal of the American Chemical Society</i> , 1991, 113, 8785-8790.	6.6	40
99	Synthesis of Bifunctional Photorefractive Polymers with Net Gain: A Design Strategy Amenable to Combinatorial Optimization. <i>Journal of the American Chemical Society</i> , 1998, 120, 9680-9681.	6.6	40
100	Synthesis, structure and properties of decakis(phenylthio)corannulene. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 53-55.	1.5	40
101	Synthesis of a D ₃ -symmetric ∞ -knotted cyclophane. <i>Chemical Communications</i> , 2011, 47, 9588.	2.2	39
102	One-Pot Domino Carbonylation Protocol for Aromatic Diimides toward n-Type Organic Semiconductors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14024-14028.	7.2	39
103	Bond Fixation in a [14]Annulene: Synthesis, Characterization, and ab Initio Computations of Furan Adducts of Dimethyldihydropyrene. <i>Journal of the American Chemical Society</i> , 1996, 118, 2907-2911.	6.6	36
104	Symmetry and polarisability effects on the dynamics of enshrouded aryl-alkyne molecular rotors. <i>Chemical Science</i> , 2010, 1, 102.	3.7	36
105	Synthesis of unsymmetrical 2,8- and 2,9-dihalo-1,10-phenanthrolines and derivatives. <i>Tetrahedron Letters</i> , 1998, 39, 2697-2700.	0.7	34
106	Photorefractive Properties of Poly(siloxane)-triarylamine-Based Composites for High-Speed Applications. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4732-4737.	1.2	34
107	Ring selectivity and migratory aptitude of Cp* ₂ Ru ⁺ complexation to acecorannulene Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b3/b316061k/ . <i>Chemical Communications</i> , 2004, , 950.	2.2	34
108	Polysiloxane-bound ligand accelerated catalysis: a modular approach to heterogeneous and homogeneous macromolecular asymmetric dihydroxylation ligands. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2287.	1.5	34

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109	Axially Chiral Bichromophoric Fluorescent Dyes. <i>Journal of Organic Chemistry</i> , 2011, 76, 990-992.	1.7	34
110	Mills-nixon effects?. <i>Advances in Theoretically Interesting Molecules</i> , 1995, , 209-260.	0.5	34
111	Intramolecular C-H insertion vs. Friedel-Crafts coupling induced by silyl cation-promoted C-F activation. <i>Organic Chemistry Frontiers</i> , 2015, 2, 1018-1021.	2.3	33
112	Dramatic steric distortions and electronic demands in 1,3,5-tris(dialkylamino)-2,4,6-trinitrobenzene: study of a severely warped benzene. <i>Journal of the American Chemical Society</i> , 1989, 111, 5940-5944.	6.6	32
113	Of Graphs and Graphenes: Molecular Design and Chemical Studies of Aromatic Compounds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5436-5438.	7.2	32
114	Chiral Atropisomeric Indenocorannulene Bowls: Critique of the Cahn-Ingold-Prelog Conception of Molecular Chirality. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6470-6474.	7.2	32
115	Evidence for gated stereodynamics in [1,4-bis(4,4-dimethyl-3-oxopentyl)-2,3,5,6-tetraethylbenzene]chromium tricarbonyl. <i>Journal of the American Chemical Society</i> , 1991, 113, 2332-2333.	6.6	31
116	Shattered mirrors. <i>Nature</i> , 2002, 419, 346-347.	13.7	31
117	Tris(arylmethyl) Derivatives of 1,3,5-Trimethoxy- and 1,3,5-Triethylbenzene. <i>Journal of Organic Chemistry</i> , 2003, 68, 3699-3701.	1.7	31
118	Unusual Photoluminescence Behavior of C70. <i>The Journal of Physical Chemistry</i> , 1994, 98, 7350-7354.	2.9	30
119	Synthesis and Crystal Structure of a Silyl-stabilized Allyl Cation Formed by Disruption of an Arene by a Protonation-Hydrosilylation Sequence. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3787-3790.	7.2	30
120	Sym-(CH ₂ X) ₅ -corannulenes: molecular pentapods displaying functional group and bioconjugate appendages. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5799.	1.5	30
121	The crystal structure of a heptiptycene-chlorobenzene clathrate. <i>Tetrahedron Letters</i> , 1995, 36, 2419-2422.	0.7	29
122	Synthesis and Structure of the Nanodimensional Multicyclophane-Kuratowski Cyclophane, an Achiral Molecule with Nonplanar K _{3,3} Topology. <i>Angewandte Chemie International Edition in English</i> , 1996, 34, 2657-2660.	4.4	29
123	Five-fold symmetric penta-substituted corannulene with gelation properties and a liquid-crystalline phase. <i>Chemical Communications</i> , 2013, 49, 7204-7206.	2.2	29
124	Phase Behavior of a Designed Cyclopropyl Analogue of Monoolein: Implications for Low-Temperature Membrane Protein Crystallization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1027-1031.	7.2	29
125	Synthesis of Modified Nucleoside Oligophosphates Simplified: Fast, Pure, and Protecting Group Free. <i>Journal of the American Chemical Society</i> , 2019, 141, 15013-15017.	6.6	29
126	Surface-assisted bowl-in-bowl stacking of nonplanar aromatic hydrocarbons. <i>Chemical Communications</i> , 2011, 47, 7995.	2.2	28

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127	Quadruple Anionic Buckybowls by Solid-State Chemistry of Corannulene and Cesium. <i>Journal of the American Chemical Society</i> , 2013, 135, 12857-12860.	6.6	28
128	Synthesis of Bioconjugated σ -Pentastituted Corannulenes: Experimental and Theoretical Investigations of Supramolecular Architectures. <i>Bioconjugate Chemistry</i> , 2014, 25, 115-128.	1.8	28
129	Boronic esters of corannulene: potential building blocks toward icosahedral supramolecules. <i>Organic Chemistry Frontiers</i> , 2015, 2, 626-633.	2.3	28
130	Synthesis, structure, and ligand dynamics of the organometallic anion $[\text{Ru}_3(\text{CO})_9\text{C}_2\text{-tert-Bu}]^-$. <i>Inorganic Chemistry</i> , 1981, 20, 4306-4311.	1.9	27
131	An induced barrier to rotation about the η^6 -arene-metal bond in centrally bound bent-terphenylchromium tricarbonyl. A gauge for aromatic character and bond localization?. <i>Journal of the American Chemical Society</i> , 1988, 110, 3675-3676.	6.6	27
132	Der Mills-Nixon-Effekt: Zu welchem Ende?. <i>Angewandte Chemie</i> , 1994, 106, 1808-1810.	1.6	27
133	Synthesis and Conformational Analysis of Trioxatricornan-Based Macrocyclophanes. <i>Journal of Organic Chemistry</i> , 1995, 60, 2885-2890.	1.7	27
134	Baskets, covered baskets, and basket balls: corannulene based cyclophanes as fullerene mimics. <i>Tetrahedron</i> , 2001, 57, 3737-3742.	1.0	27
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