

Jay S Siegel

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281
papers

12,464
citations

58
h-index

101
g-index

342
ext. papers

13,386
ext. citations

9.6
avg, IF

6.36
L-index

#	Paper	IF	Citations
281	Spontaneous assembly of double-stranded helicates from oligobipyridine ligands and copper(I) cations: structure of an inorganic double helix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 2565-9	11.5	711
280	Aromatic molecular-bowl hydrocarbons: synthetic derivatives, their structures, and physical properties. <i>Chemical Reviews</i> , 2006 , 106, 4843-67	68.1	660
279	Stereoisomerism and local chirality. <i>Journal of the American Chemical Society</i> , 1984 , 106, 3319-3328	16.4	340
278	Dominance of polar/ π over charge-transfer effects in stacked phenyl interactions. <i>Journal of the American Chemical Society</i> , 1993 , 115, 5330-5331	16.4	339
277	Discovery of a novel binding trench in HIV integrase. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 1879-81	8.3	286
276	Polar/ π interactions between stacked aryls in 1,8-diarylnaphthalenes. <i>Journal of the American Chemical Society</i> , 1992 , 114, 5729-5733	16.4	284
275	Polar Interactions between Stacked π Systems in Fluorinated 1,8-Diarylnaphthalenes: Importance of Quadrupole Moments in Molecular Recognition. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1019-1020		258
274	Proton-catalyzed, silane-fueled Friedel-Crafts coupling of fluoroarenes. <i>Science</i> , 2011 , 332, 574-7	33.3	248
273	Structure/energy correlation of bowl depth and inversion barrier in corannulene derivatives: combined experimental and quantum mechanical analysis. <i>Journal of the American Chemical Society</i> , 2001 , 123, 517-25	16.4	246
272	Synthesis and dynamics of the corannulene nucleus. <i>Journal of the American Chemical Society</i> , 1992 , 114, 1921-1923	16.4	213
271	Synthesis of Corannulene and Alkyl Derivatives of Corannulene. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7804-7813	16.4	200
270	Interaction between stacked aryl groups in 1,8-diarylnaphthalenes: Dominance of polar/ π over charge-transfer effects. <i>Pure and Applied Chemistry</i> , 1995 , 67, 683-689	2.1	194
269	Kilogram-Scale Production of Corannulene. <i>Organic Process Research and Development</i> , 2012 , 16, 664-676	6.9	187
268	Phenyl/Pentafluorophenyl Interactions and the Generation of Ordered Mixed Crystals: sym-Triphenethynylbenzene and sym-Tris(perfluorophenethynyl)benzene This work was supported by the US National Science Foundation (CHE-9904275). <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2323-2325	16.4	161
267	Second-harmonic generation from non-dipolar non-centrosymmetric aromatic charge-transfer molecules. <i>Chemical Physics Letters</i> , 1990 , 172, 440-444	2.5	157
266	Enantioselective Synthesis of Copper(I) Bipyridine Based Helicates by Chiral Templating of Secondary Structure: Transmission of Stereochemistry on the Nanometer Scale. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1830-1833		156
265	Dichlorofluoromethane-d: a versatile solvent for VT-NMR experiments. <i>Journal of Organic Chemistry</i> , 1988 , 53, 2629-2630	4.2	149

264	Homochiral imperative of molecular evolution. <i>Chirality</i> , 1998 , 10, 24-27	2.1	146
263	Induced-fit catalysis of corannulene bowl-to-bowl inversion. <i>Nature Chemistry</i> , 2014 , 6, 222-8	17.6	122
262	Multiethynyl corannulenes: synthesis, structure, and properties. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10729-39	16.4	118
261	Synthesis and Characterization of the First Corannulene Cyclophane. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2754-2755	16.4	118
260	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, 6870-84	16.4	117
259	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	16.4	116
258	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	16.4	114
257	Through-space interactions between face-to-face, center-to-edge oriented arenes: importance of polar- π effects. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 157-62	3.9	106
256	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		106
255	C60/corannulene on Cu(110): a surface-supported bistable buckybowl-buckyball host-guest system. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4767-71	16.4	103
254	Molecular spur gears comprising triptycene rotators and bibenzimidazole-based stators. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1528-35	16.4	101
253	Wide-ranging host capability of a Pd(II)-linked M2L4 molecular capsule with an anthracene shell. <i>Chemistry - A European Journal</i> , 2013 , 19, 6313-20	4.8	97
252	Synthesis and Fluorescence Properties of Manisyl-Substituted Terpyridine, Bipyridine, and Phenanthroline. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 754-757	16.4	95
251	Chemistry. Chemical topology and interlocking molecules. <i>Science</i> , 2004 , 304, 1256-8	33.3	89
250	Mills-Nixon Effect: Wherefore Art Thou?. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1721-1723		87
249	C-F activation of fluorobenzene by silylium carboranes: evidence for incipient phenyl cation reactivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7519-22	16.4	86
248	Spectroscopic determination of trap density in C60-sensitized photorefractive polymers. <i>Chemical Physics Letters</i> , 1998 , 291, 553-561	2.5	86
247	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	16.4	84

246	Correlation of Empirical (TMS) and Absolute NMR Chemical Shifts Predicted by ab Initio Computations. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 4038-4042	2.8	83
245	Through-space interactions between parallel-offset arenes at the van der Waals distance: 1,8-diarylbiphenylene syntheses, structure and QM computations. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2686-94	3.6	81
244	Synthetic approaches to a molecular Borromean link: two-ring threading with polypyridine templates. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5702-5	16.4	81
243	Buckybowls on metal surfaces: symmetry mismatch and enantiomorphism of corannulene on Cu110. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8258-61	16.4	79
242	Synthesis and Quantum Mechanical Structure of sym-Pentamethylcorannulene and Decamethylcorannulene. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7439-7440	16.4	79
241	Tunable star-shaped triphenylamine fluorophores for fluorescence quenching detection and identification of nitro-aromatic explosives. <i>Chemical Communications</i> , 2013 , 49, 780-2	5.8	78
240	Molecular design, chemical synthesis, kinetic studies, calculations, and biological studies of novel enediynes equipped with triggering, detection, and deactivating devices. Model dynamycin A epoxide and cis-diol systems. <i>Journal of the American Chemical Society</i> , 1993 , 115, 7944-7953	16.4	78
239	Synthesis and properties of sym-pentasubstituted derivatives of corannulene. <i>Organic Letters</i> , 2003 , 5, 713-6	6.2	77
238	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	2	73
237	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, 536-44		72
236	Building 2D crystals from 5-fold-symmetric molecules. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3460-1	16.4	71
235	Synthesis of 2,6-diarylphenyldimethylsilyl cations: polar- π distribution of cation character. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1719-22	16.4	69
234	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	1.9	66
233	Dodecamethoxy- and hexaoxotricyclobutabenzene: synthesis and characterization. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10032-3	16.4	65
232	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	3.6	65
231	Reversible phase transitions in a buckyball monolayer. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1966-9	16.4	64
230	d ⁸ rhodium and iridium complexes of corannulene. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10644-5	16.4	64
229	Corannulene Pentapetalae. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5402-5408	16.4	63

228	Thiophene-fused bowl-shaped polycyclic aromatics with a dibenzo[a,g]corannulene core for organic field-effect transistors. <i>Chemical Communications</i> , 2015 , 51, 1681-4	5.8	63
227	Anion mediated structural motifs in silver(I) complexes with corannulene. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 407-13	3.9	63
226	Structural, optical, and electrochemical properties of three-dimensional push-pull corannulenes. <i>Journal of Organic Chemistry</i> , 2012 , 77, 11014-26	4.2	60
225	Synthesis of sec-alkylacetylenes. Reduction of cobalt carbonyl complexes of acetylenic alcohols. <i>Journal of the American Chemical Society</i> , 1985 , 107, 4999-5001	16.4	60
224	Homochiral imperative of molecular evolution 1998 , 10, 24		60
223	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	16.4	58
222	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	16.4	58
221	Corannulene derivatives as non-fullerene acceptors in solution-processed bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20515-20519	13	56
220	Controlled oxygen release from pyridone endoperoxides promotes cell survival under anoxic conditions. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 10171-82	8.3	56
219	Synthesis of arylbromides from arenes and N-bromosuccinimide (NBS) in acetonitrile [A convenient method for aromatic bromination. <i>Canadian Journal of Chemistry</i> , 2009 , 87, 440-447	0.9	56
218	Synthesis of Unsubstituted and 4,4'-Substituted Oligobipyridines as Ligand Strands for Helicate Self-Assembly. <i>Helvetica Chimica Acta</i> , 1991 , 74, 594-610	2	56
217	Trinuclear Copper(I)-bipyridine Triskelion: Template/Bascule Control of Coordination Complex Stereochemistry in a Trefoil Knot Precursor This work was supported by the US National Science Foundation (CHE-9904275).. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 749-751	16.4	54
216	Intramolecular halogen stabilization of silylium ions directs gearing dynamics. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7828-9	16.4	50
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214	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	16.4	48
213	Poly(methylhydrosiloxane)-supported chiral imidazolinones: new versatile, highly efficient and recyclable organocatalysts for stereoselective Diels-Alder cycloaddition reactions. <i>Chemical Communications</i> , 2012 , 48, 3188-90	5.8	47
212	Control of functional group proximity and direction by conformational networks: synthesis and stereodynamics of persubstituted arenes. <i>Tetrahedron</i> , 2001 , 57, 3615-3627	2.4	47
211	Synthesis of trioxatricornan and derivatives. Useful keystones for the construction of rigid molecular cavities. <i>Journal of Organic Chemistry</i> , 1992 , 57, 61-69	4.2	47

210	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	16.4	47
209	Chiral conflict among different helices suppresses formation of one enantiomorph in 2D crystallization. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7434-7	16.4	46
208	Steric isotope effects gauged by the bowl-inversion barrier in selectively deuterated pentaarylcorannulenes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1583-91	16.4	46
207	Stereoselective coordination of C ₅ -symmetric corannulene derivatives with an enantiomerically pure [Rh(I)(nbd*)] metal complex. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 865-7	16.4	45
206	Synthesis of achiral and racemic catenanes based on terpyridine and a directionalized terpyridine mimic, pyridyl-phenanthroline. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 3105-16	3.9	45
205	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	2	45
204	Quantum mechanical designs toward planar delocalized cyclooctatetraene: a new target for synthesis. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1755-9	16.4	45
203	Integration complexes derived from HIV vectors for rapid assays in vitro. <i>Nature Biotechnology</i> , 1999 , 17, 578-82	44.5	45
202	Extended Corannulenes: Aromatic Bowl/Sheet Hybridization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10792-6	16.4	44
201	Does π -Through-Bond Coupling Significantly Increase C-C Bond Lengths?. <i>Journal of the American Chemical Society</i> , 1997 , 119, 7048-7054	16.4	44
200	C-F Activation of Fluorobenzene by Silylium Carboranes: Evidence for Incipient Phenyl Cation Reactivity. <i>Angewandte Chemie</i> , 2010 , 122, 7681-7684	3.6	41
199	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	16.4	41
198	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	16.4	40
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196	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	16.4	40
195	Synthesis, structures, and physical properties of aromatic molecular-bowl hydrocarbons. <i>Topics in Current Chemistry</i> , 2014 , 349, 63-120		39
194	Synthesis, structure and properties of decakis(phenylthio)corannulene. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 53-5	3.9	39
193	Pentaindenocorannulene: Properties, Assemblies, and C Complex. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14648-14652	16.4	39

192	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	16.4	38
191	Competition between π -arene and lone-pair halogen coordination of silylium ions?. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11844-6	16.4	37
190	Synthesis of a D ₃ -symmetric "trefoil" knotted cyclophane. <i>Chemical Communications</i> , 2011 , 47, 9588-90	5.8	37
189	Synthesis of pyridylstannanes from halopyridines and hexamethyldistannane with catalytic palladium. <i>Tetrahedron Letters</i> , 1997 , 38, 4737-4740	2	37
188	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		37
187	Synthesis of Bifunctional Photorefractive Polymers with Net Gain: Design Strategy Amenable to Combinatorial Optimization. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9680-9681	16.4	36
186	Long C-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	2	36
185	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	2	36
184	Synthesis, structures, and dynamics of a macrocyclophane. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8785-8790	16.4	36
183	Structure and reactivity of illudins. <i>Tetrahedron</i> , 1989 , 45, 5433-5440	2.4	35
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181	Ring selectivity and migratory aptitude of Cp* Ru^+ complexation to acecorannulene. <i>Chemical Communications</i> , 2004 , 950-1	5.8	34
180	Photorefractive Properties of Poly(siloxane)-triarylamine-Based Composites for High-Speed Applications. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4732-4737	3.4	34
179	Kristallographischer Nachweis der Cyclohexatrien-Struktur von Tris(bicyclo[2.1.1]hexeno)benzol: Bindungsfolgenalternanz nach Widerlegung der Mills-Nixon-Theorie. <i>Angewandte Chemie</i> , 1995 , 107, 1575-1577	3.6	33
178	Synthesis of unsymmetrical 2,8- and 2,9-dihalo-1,10-phenanthrolines and derivatives. <i>Tetrahedron Letters</i> , 1998 , 39, 2697-2700	2	31
177	Polysiloxane-bound ligand accelerated catalysis: a modular approach to heterogeneous and homogeneous macromolecular asymmetric dihydroxylation ligands. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 2287-98	3.9	31
176	Phenyl/Pentafluorophenyl Interactions and the Generation of Ordered Mixed Crystals: sym-Triphenethynylbenzene and sym-Tris(perfluorophenethynyl)benzene. <i>Angewandte Chemie</i> , 2000 , 112, 2413-2415	3.6	30
175	Axially chiral bichromophoric fluorescent dyes. <i>Journal of Organic Chemistry</i> , 2011 , 76, 990-2	4.2	29

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- 173 Mills-nixon effects?. *Advances in Theoretically Interesting Molecules*, **1995**, 209-260 29
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- 168 An -Symmetric 5-Fold Interlocked [2]Catenane. *Journal of the American Chemical Society*, **2020**, 142, 10267-10277 16.4 27
- 167 Boronic esters of corannulene: potential building blocks toward icosahedral supramolecules. *Organic Chemistry Frontiers*, **2015**, 2, 626-633 5.2 27
- 166 Sym-(CH₂X)₅-corannulenes: molecular pentapods displaying functional group and bioconjugate appendages. *Organic and Biomolecular Chemistry*, **2012**, 10, 5799-802 3.9 27
- 165 Bond Fixation in a [14]Annulene: Synthesis, Characterization, and ab Initio Computations of Furan Adducts of Dimethyldihydropyrene. *Journal of the American Chemical Society*, **1996**, 118, 2907-2911 16.4 27
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- 157 Dramatic steric distortions and electronic demands in 1,3,5-tris(dialkylamino)-2,4,6-trinitrobenzene: study of a severely warped benzene. *Journal of the American Chemical Society*, **1989**, 111, 5940-5944 16.4 26

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- 152 Five-fold symmetric penta-substituted corannulene with gelation properties and a liquid-crystalline phase. *Chemical Communications*, **2013**, 49, 7204-6 5.8 24
- 151 Quadruple anionic buckybowls by solid-state chemistry of corannulene and cesium. *Journal of the American Chemical Society*, **2013**, 135, 12857-60 16.4 24
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