

# Jay S Siegel

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3940389/jay-s-siegel-publications-by-year.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Cooperative Weak Dispersive Interactions Actuate Catalysis in a Shape-Selective Abiological Racemase.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	3
280	Synthesis and Acidity of 5-(Terphenyl-2'-yl)-1-tetrazoles: Evidence for an Enhanced Polar-Effect Compared to Carboxylic Acids. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 3197-3203	8.3	0
279	The chemistry of branched condensed phosphates. <i>Nature Communications</i> , <b>2021</b> , 12, 5368	17.4	4
278	Enantiopure C Pentaindenocorannulenes: Chiral Graphenoid Materials. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25809-25814	16.4	2
277	Emergence of dynamical disorder and phase metastability in carbon nanobowls. <i>Carbon</i> , <b>2021</b> , 183, 196-204	10.4	0
276	Thiophene fused indenocorannulenes: synthesis, variable emission, and exceptional chiral configurational stability. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 3653-3658	5.2	0
275	One-Pot Domino Carbonylation Protocol for Aromatic Diimides toward n-Type Organic Semiconductors. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14024-14028	16.4	14
274	One-Pot Domino Carbonylation Protocol for Aromatic Diimides toward n-Type Organic Semiconductors. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14128-14132	3.6	0
273	An -Symmetric 5-Fold Interlocked [2]Catenane. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 10267-10277	16.4	17
272	Generalized Analytic Approach for Determination of Multidimensional Franck-Condon Factors: Simulated Photoelectron Spectra of Polynuclear Aromatic Hydrocarbons. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 4521-4532	6.4	0
271	X-ray Crystallography and Unexpected Chiroptical Properties Reassign the Configuration of Haliclonadamine. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2755-2759	16.4	3
270	Fluorous Corannulenes: Ab initio Predictions and the Synthesis of sym-Pentafluorocorannulene. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1460-1464	16.4	4
269	Innentitelbild: Fluorous Corannulenes: Ab initio Predictions and the Synthesis of sym-Pentafluorocorannulene (Angew. Chem. 4/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1374-1374	3.6	
268	Fluorous Corannulenes: Ab initio Predictions and the Synthesis of sym-Pentafluorocorannulene. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1476-1480	3.6	2
267	Involvement of aryl hydrocarbon receptor in the cytotoxicity of corannulene and its derivatives. <i>Toxicology Letters</i> , <b>2020</b> , 321, 114-121	4.4	2
266	Synthesis of Modified Nucleoside Oligophosphates Simplified: Fast, Pure, and Protecting Group Free. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15013-15017	16.4	14
265	The interaction of hydrogen with corannulene, a promising new platform for energy storage. <i>Carbon</i> , <b>2019</b> , 155, 432-437	10.4	7

264	Graphene Grown from Flat and Bowl Shaped Polycyclic Aromatic Hydrocarbons on Cu(111). <i>ChemPhysChem</i> , <b>2019</b> , 20, 2354-2359	3.2	2
263	Peraryl-X-onium ions of nitrogen and oxygen. <i>Organic Chemistry Frontiers</i> , <b>2019</b> , 6, 2640-2646	5.2	6
262	Azaindenocorannulenes: Synthesis, Properties, and Chirality. <i>Organic Letters</i> , <b>2019</b> , 21, 3510-3513	6.2	9
261	Corannulylene Pentapetalae. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5402-5408	16.4	63
260	Fivefold Symmetry and 2D Crystallization: Self-Assembly of the Buckybowl Pentaindenocorannulene on a Cu(100) Surface. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11555-11559	4.8	3
259	Kurt M. Mislow (1923-2017). <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4835	16.4	
258	Chiral Atropisomeric Indenocorannulene Bowls: Critique of the Cahn-Ingold-Prelog Conception of Molecular Chirality. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6470-6474	16.4	13
257	1,2,3- versus 1,2-Indeno Ring Fusions Influence Structure Property and Chirality of Corannulene Bowls. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 3979-3986	4.2	8
256	Pauli Repulsion Versus van der Waals: Interaction of Indenocorannulene with a Cu(111) Surface. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 871-877	3.4	5
255	Chiral Atropisomeric Indenocorannulene Bowls: Critique of the Cahn-Ingold-Prelog Conception of Molecular Chirality. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6580-6584	3.6	2
254	Prologue: Atropisomerism. <i>Synlett</i> , <b>2018</b> , 29, 2122-2125	2.2	5
253	Cluster Preface: Atropisomerism. <i>Synlett</i> , <b>2018</b> , 29, 2120-2121	2.2	5
252	Curved $\pi$ -conjugated corannulene dimer diradicaloids. <i>Chemical Science</i> , <b>2018</b> , 9, 5100-5105	9.4	17
251	Indenocorannulene-Based Materials: Effect of Solid-State Packing and Intermolecular Interactions on Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 1220-1234	3.8	14
250	Allotropy by design-Carbon nanohoops. <i>Science</i> , <b>2017</b> , 356, 135-136	33.3	7
249	Diindenocorannulenes: Curved Aromatics Blending Bowl-in-Bowl Assembly and Nanocarbon Material Properties. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 2801-2805	3.2	11
248	Evidence of enhanced photocurrent response in corannulene films. <i>RSC Advances</i> , <b>2017</b> , 7, 45601-45606	3.7	3
247	Decakis(arylthio)corannulenes: Transferable Photochemical and Redox Parameters and Photovoltaic Device Performance. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 4338-4342	3.2	13

246	Trifluoromethyl/Perfluoroalkyl Corannulenes: Directed Synthesis and Photophysical Characterization. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 875-879	3.2	15
245	School of Pharmaceutical Science and Technology of Tianjin University: A Demo Project as an International Center of Excellence in China. <i>ACS Symposium Series</i> , <b>2016</b> , 31-35	0.4	
244	Synthesis of a Five-Fold-Differentiated 1,3,5,7,9-Pentasubstituted Corannulene: A Maximal Labeling Problem in the Context of Corannulene. <i>Synlett</i> , <b>2016</b> , 27, 2117-2122	2.2	3
243	Conformations of large macrocycles and ring-in-ring complexes. <i>Organic Chemistry Frontiers</i> , <b>2016</b> , 3, 661-666	5.2	19
242	Towards the molecular Borromean link with three unequal rings: double-threaded ruthenium(II) ring-in-ring complexes. <i>Organic Chemistry Frontiers</i> , <b>2016</b> , 3, 667-672	5.2	14
241	Tunable Photochemical/Redox Properties of (Phenylthio)corannulenes: Application to a Photovoltaic Device. <i>Journal of the Brazilian Chemical Society</i> , <b>2016</b> ,	1.5	2
240	Pentaindenocorannulene: Properties, Assemblies, and C Complex. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14648-14652	16.4	39
239	Pentaindenocorannulene: Properties, Assemblies, and C60 Complex. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14868-14872	3.6	24
238	Intramolecular C-H insertion vs. Friedel-Crafts coupling induced by silyl cation-promoted C-H activation. <i>Organic Chemistry Frontiers</i> , <b>2015</b> , 2, 1018-1021	5.2	28
237	Structure and dynamics in unsymmetrically substituted five-coordinate iridacyclopentadiene complexes. <i>Journal of Physical Organic Chemistry</i> , <b>2015</b> , 28, 199-202	2.1	3
236	Molecular compression chambers: exceeding the Euler modulus. <i>Journal of Physical Organic Chemistry</i> , <b>2015</b> , 28, 223-225	2.1	5
235	50 years of physical organic chemistry. <i>Journal of Physical Organic Chemistry</i> , <b>2015</b> , 28, 172-172	2.1	
234	Synthesis and characterization of phosphorescent platinum and iridium complexes with cyclometalated corannulene. <i>Dalton Transactions</i> , <b>2015</b> , 44, 8456-66	4.3	10
233	Stereospecific Oxidative Demetallation of Highly Functionalized CpCo(1,3-Diene) Complexes: An Experimental and Computational Study. <i>Synlett</i> , <b>2015</b> , 26, 2243-2246	2.2	2
232	Thiophene-fused bowl-shaped polycyclic aromatics with a dibenzo[a,g]corannulene core for organic field-effect transistors. <i>Chemical Communications</i> , <b>2015</b> , 51, 1681-4	5.8	63
231	Extended Corannulenes: Aromatic Bowl/Sheet Hybridization. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 10942-10946	3.6	26
230	Phase Behavior of a Designed Cyclopropyl Analogue of Monoolein: Implications for Low-Temperature Membrane Protein Crystallization. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1041-1045	3.6	4
229	Extended Corannulenes: Aromatic Bowl/Sheet Hybridization. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10792-6	16.4	44

228	Boronic esters of corannulene: potential building blocks toward icosahedral supramolecules. <i>Organic Chemistry Frontiers</i> , <b>2015</b> , 2, 626-633	5.2	27
227	Phase behavior of a designed cyclopropyl analogue of monoolein: implications for low-temperature membrane protein crystallization. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1027-31	16.4	26
226	Through-space interactions in enshrouded m-terphenylsilanes. <i>Journal of Physical Organic Chemistry</i> , <b>2014</b> , 27, 277-283	2.1	3
225	Induced-fit catalysis of corannulene bowl-to-bowl inversion. <i>Nature Chemistry</i> , <b>2014</b> , 6, 222-8	17.6	122
224	Three steps in one pot: synthesis of linear bilateral extended 2,2':6',2''-terpyridineruthenium(II) complexes. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 12122-6	5.1	7
223	Cu(I) and Ag(I) complexes of 7,10-bis-N-heterocycle-diazafluoranthenes: programmed molecular grids?. <i>Dalton Transactions</i> , <b>2014</b> , 43, 11027-38	4.3	7
222	Corannulene derivatives as non-fullerene acceptors in solution-processed bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20515-20519	13	56
221	Close covalent contacts: gauging molecular compression in a molecular compression chamber. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1379-84	3.6	6
220	Synthesis of Bioconjugated sym-pentasubstituted corannulenes: experimental and theoretical investigations of supramolecular architectures. <i>Bioconjugate Chemistry</i> , <b>2014</b> , 25, 115-28	6.3	26
219	Synthesis, structures, and physical properties of aromatic molecular-bowl hydrocarbons. <i>Topics in Current Chemistry</i> , <b>2014</b> , 349, 63-120		39
218	Gear-meshed tiling of surfaces with molecular pentagonal stars. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 606-9	16.4	22
217	Linear bilateral extended 2,2':6',2''-terpyridine ligands, their coordination complexes and heterometallic supramolecular networks. <i>Chemical Science</i> , <b>2014</b> , 5, 4317-4327	9.4	14
216	Electron transport and optical properties of curved aromatics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2013</b> , 3, 1-12	7.9	18
215	Five-fold symmetric penta-substituted corannulene with gelation properties and a liquid-crystalline phase. <i>Chemical Communications</i> , <b>2013</b> , 49, 7204-6	5.8	24
214	Quadruple anionic buckybowls by solid-state chemistry of corannulene and cesium. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12857-60	16.4	24
213	Historical perspective on: Second-harmonic generation from non-dipolar non-centrosymmetric aromatic charge-transfer molecules [Volume 172, Issue 6, 21 September 1990, Pages 440-444]. <i>Chemical Physics Letters</i> , <b>2013</b> , 589, 46	2.5	
212	Controlled oxygen release from pyridone endoperoxides promotes cell survival under anoxic conditions. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 10171-82	8.3	56
211	Tunable star-shaped triphenylamine fluorophores for fluorescence quenching detection and identification of nitro-aromatic explosives. <i>Chemical Communications</i> , <b>2013</b> , 49, 780-2	5.8	78

210	Tailored host-guest lipidic cubic phases: a protocell model exhibiting nucleic acid recognition. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1262-7	4.8	14
209	Reprint of: Second-harmonic generation from non-dipolar non-centrosymmetric aromatic charge-transfer molecules. <i>Chemical Physics Letters</i> , <b>2013</b> , 589, 47-50	2.5	1
208	Arenium acid catalyzed deuteration of aromatic hydrocarbons. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 2134-8	4.2	19
207	Of graphs and graphenes: molecular design and chemical studies of aromatic compounds. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5436-8	16.4	25
206	Wide-ranging host capability of a Pd(II)-linked M2L4 molecular capsule with an anthracene shell. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 6313-20	4.8	97
205	Effective solubilization of single-walled carbon nanotubes in THF using PEGylated corannulene dispersant. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 3500-3	9.5	10
204	Chiral conflict among different helicenes suppresses formation of one enantiomorph in 2D crystallization. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7434-7	16.4	46
203	Nanomolar cholera toxin inhibitors based on symmetrical pentavalent ganglioside GM1os-sym-corannulenes. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 4333-4339	3.9	22
202	Von Graphen und Graphenen: molekulares Design und chemische Studien aromatischer Verbindungen. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 5546-5548	3.6	12
201	Design and synthesis of lipids for the fabrication of functional lipidic cubic-phase biomaterials. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 10583-95	4.2	15
200	Molecular spur gears comprising triptycene rotators and bibenzimidazole-based stators. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 1528-35	16.4	101
199	Sym-(CH <sub>2</sub> X) <sub>5</sub> -corannulenes: molecular pentapods displaying functional group and bioconjugate appendages. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 5799-802	3.9	27
198	Structural, optical, and electrochemical properties of three-dimensional push-pull corannulenes. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 11014-26	4.2	60
197	Chemistry. Driving the formation of molecular knots. <i>Science</i> , <b>2012</b> , 338, 752-3	33.3	5
196	Materials chemistry: carbon origami. <i>Nature</i> , <b>2012</b> , 486, 327-8	50.4	3
195	Pentagonal tiling with buckybowl: pentamethylcorannulene on Cu(111). <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 13365-9	3.6	15
194	Poly(methylhydrosiloxane)-supported chiral imidazolinones: new versatile, highly efficient and recyclable organocatalysts for stereoselective Diels-Alder cycloaddition reactions. <i>Chemical Communications</i> , <b>2012</b> , 48, 3188-90	5.8	47
193	Kilogram-Scale Production of Corannulene. <i>Organic Process Research and Development</i> , <b>2012</b> , 16, 664-676	9.9	187

192	Basicity of (2,6-Pyridino)paracyclophanes: Lone Pair- $\pi$ -Cation- $\pi$ and Solvation Effects. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 2957-2960	3.6	2
191	Basicity of (2,6-pyridino)paracyclophanes: lone pair- $\pi$ -cation- $\pi$ and solvation effects. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2903-6	16.4	11
190	Immobilization of Chiral Bifunctional Organocatalysts on Poly(methylhydrosiloxane). <i>ChemCatChem</i> , <b>2012</b> , 4, 972-975	5.2	18
189	Axially chiral bichromophoric fluorescent dyes. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 990-2	4.2	29
188	Competition between $\pi$ -arene and lone-pair halogen coordination of silylium ions?. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11844-6	16.4	37
187	Synthesis of a D3-symmetric "trefoil" knotted cyclophane. <i>Chemical Communications</i> , <b>2011</b> , 47, 9588-90	5.8	37
186	Proton-catalyzed, silane-fueled Friedel-Crafts coupling of fluoroarenes. <i>Science</i> , <b>2011</b> , 332, 574-7	33.3	248
185	Stereoselective Coordination of C5-Symmetric Corannulene Derivatives with an Enantiomerically Pure [Rh(I)(nbd*)] Metal Complex. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 895-897	3.6	10
184	Stereoselective coordination of C5-symmetric corannulene derivatives with an enantiomerically pure [Rh(I)(nbd*)] metal complex. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 865-7	16.4	45
183	Surface-assisted bowl-in-bowl stacking of nonplanar aromatic hydrocarbons. <i>Chemical Communications</i> , <b>2011</b> , 47, 7995-7	5.8	28
182	Manisyl-substituted polypyridine coordination compounds: Metallo-supramolecular networks of interdigitated double helices assembled via CH... $\pi$ and $\pi$ - $\pi$ interactions. <i>Dalton Transactions</i> , <b>2010</b> , 39, 1519-31	4.3	12
181	Intramolecular halogen stabilization of silylium ions directs gearing dynamics. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7828-9	16.4	50
180	Synthesis, structure and properties of decakis(phenylthio)corannulene. <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 53-5	3.9	39
179	Symmetry and polar- $\pi$ effects on the dynamics of enshrouded aryl-alkyne molecular rotors. <i>Chemical Science</i> , <b>2010</b> , 1, 102	9.4	34
178	C-F Activation of Fluorobenzene by Silylium Carboranes: Evidence for Incipient Phenyl Cation Reactivity. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7681-7684	3.6	41
177	C-F activation of fluorobenzene by silylium carboranes: evidence for incipient phenyl cation reactivity. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7519-22	16.4	86
176	Reversible phase transitions in a buckybowl monolayer. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1966-9	16.4	64
175	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> , <b>2009</b> , 48, 3787-90	16.4	28

174	Synthesis of arylbromides from arenes and N-bromosuccinimide (NBS) in acetonitrile [A] convenient method for aromatic bromination. <i>Canadian Journal of Chemistry</i> , <b>2009</b> , 87, 440-447	0.9	56
173	Building 2D crystals from 5-fold-symmetric molecules. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3460-1	16.4	71
172	Polymorph selection in 2D crystals by phase transition blocking. <i>Chemical Communications</i> , <b>2009</b> , 5871-35.8		15
171	Photophysics of manisyl-substituted 2-pyridin-2-yl-1,10-phenanthrolines. Dual emission dependent on structure and solvent. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 5408-15	3.6	6
170	Ab initio quantum chemical computations of substituent effects on triaziridine strain energy and heat of formation. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 2387-95	3.6	10
169	Synthesis and X-ray structural analysis of platinum and ethynyl-platinum corannulenes: supramolecular tectons. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 4881-5	3.9	26
168	Diels-Alder reactions of 3,6-disubstituted 1,2,4,5-tetrazines. Synthesis and X-ray crystal structures of diazafluoranthene derivatives. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 2082-92	3.9	13
167	Synthesis, X-ray crystal structures, and computational studies of 1,1'-bridged 4,4'-diaryl-2,2'-bibenzimidazoles: building blocks for supramolecular structures. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 2347-52	3.9	9
166	Application of Structural Principles to the Design of Triptycene-Based Molecular Gears with Parallel Axes. <i>Chimia</i> , <b>2009</b> , 63, 201-204	1.3	13
165	Condensation of Fivefold-Symmetric Molecules in Two Dimensions. <i>Chimia</i> , <b>2009</b> , 63, 214-216	1.3	9
164	50 Years of the Paul Karrer Gold Medal: 1959-2009. <i>Chimia</i> , <b>2009</b> , 63, 545-550	1.3	
163	Multiethynyl corannulenes: synthesis, structure, and properties. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10729-39	16.4	118
162	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> , <b>2008</b> , 10, 2686-94	3.6	81
161	Synthesis of aryl-substituted 2-pyridyl-1,10-phenanthrolines; a series of oriented terpyridine analogues. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 2755-64	3.9	11
160	Steric isotope effects gauged by the bowl-inversion barrier in selectively deuterated pentaarylcorannulenes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1583-91	16.4	46
159	C60/corannulene on Cu(110): a surface-supported bistable buckybowl-buckyball host-guest system. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 4767-71	16.4	103
158	In Memoriam: Albert Hofmann (1906-2008). <i>Chimia</i> , <b>2008</b> , 62, 444-447	1.3	6
157	175 Years of Chemistry at the University of Zurich: Tradition, Dedication and Vision. <i>Chimia</i> , <b>2008</b> , 62, 68-74	1.3	3



156	Quantum chemical prediction of the <sup>13</sup> C NMR shifts in alkyl and chlorocorannulenes: correction of chlorine effects. <i>Theoretical Chemistry Accounts</i> , <b>2008</b> , 120, 95-106	1.9	12
155	Synthesis of 2,6-diarylphenyldimethylsilyl cations: polar-π distribution of cation character. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1719-22	16.4	69
154	Synthesis, structure, and isomerization of decapentynylcorannulene: enediyne cyclization/interconversion of C(40)R(10) isomers. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12612-3	16.4	26
153	Buckybowls on metal surfaces: symmetry mismatch and enantiomorphism of corannulene on Cu110. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8258-61	16.4	79
152	Diastereoselective synthesis of 2',3'-dideoxy-beta-C-glucopyranosides as intermediates for the synthesis of 2',3'-dideoxy-beta-D-glucopyranosyl-C-nucleosides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , <b>2007</b> , 26, 1029-35	1.4	4
151	Process Chemistry in API Development. <i>Chimia</i> , <b>2006</b> , 60, 516-517	1.3	3
150	Homo- and Heterochirality in Crystals. <i>Topics in Stereochemistry</i> , <b>2006</b> , 81-134		20
149	Stereoselective Thermal Solid State Reactions. <i>Topics in Stereochemistry</i> , <b>2006</b> , 303-350		8
148	Aromatic molecular-bowl hydrocarbons: synthetic derivatives, their structures, and physical properties. <i>Chemical Reviews</i> , <b>2006</b> , 106, 4843-67	68.1	660
147	Dodecamethoxy- and hexaoxotricyclobutabenzene: synthesis and characterization. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10032-3	16.4	65
146	Synthesis of 4,4'-bisaryl-2,2'-bisbenzimidazoles as building blocks for supramolecular structures. <i>Organic Letters</i> , <b>2006</b> , 8, 4989-92	6.2	13
145	The CH/π-Hydrogen Bond: An Important Molecular Force in Controlling the Crystal Conformation of Organic Compounds and Three-Dimensional Structure of Biopolymers. <i>Topics in Stereochemistry</i> , <b>2006</b> , 255-302		25
144	Synthesis of fluoranthenes and indenocorannulenes: elucidation of chiral stereoisomers on the basis of static molecular bowls. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6870-84	16.4	117
143	d8 rhodium and iridium complexes of corannulene. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10644-5	16.4	64
142	Supramolecular Networks of Porphyrins. <i>Topics in Stereochemistry</i> , <b>2006</b> , 49-80		1
141	Cumulative Title Index. <i>Topics in Stereochemistry</i> , <b>2006</b> , 397-403		
140	Engineering Stereospecific Reactions in Crystals: Synthesis of Compounds with Adjacent Stereogenic Quaternary Centers by Photodecarbonylation of Crystalline Ketones. <i>Topics in Stereochemistry</i> , <b>2006</b> , 205-253		25
139	Supramolecular Synthesis of 1D Chains and 2D Layers in Hydrogen Bond Networks of Ureas and 2-Pyrimidinones. <i>Topics in Stereochemistry</i> , <b>2006</b> , 135-176		1

138	Chiral Auxiliaries Powerful for Both Enantiomer Resolution and Determination of Absolute Configuration by X-Ray Crystallography. <i>Topics in Stereochemistry</i> , <b>2006</b> , 177-203		9
137	Stereochemistry of Molecules in Inclusion Crystals. <i>Topics in Stereochemistry</i> , <b>2006</b> , 1-29		
136	Torsional Motion of Stilbene-type Molecules in Crystals. <i>Topics in Stereochemistry</i> , <b>2006</b> , 31-47		13
135	Crystal Structures and Functionalities of Platinum(II) Complexes Controlled by Various Intermolecular Interactions. <i>Topics in Stereochemistry</i> , <b>2006</b> , 351-373		0
134	Synthesis of 2-pyridone-fused 2,2'-bipyridine derivatives. An unexpectedly complex solid state structure of 3,6-dimethyl-9H-4,5,9-triazaphenanthren-10-one. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 996-1001	3.9	9
133	Synthesis and stability of exocyclic triazine nucleosides. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 2946-52	3.9	20
132	Formal [(2+2)+2] and [(2+2)+(2+2)] nonconjugated dienediyne cascade cycloadditions. <i>Organic Letters</i> , <b>2005</b> , 7, 4353-5	6.2	22
131	Chirony of stereochemical metaphors. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 4296-8	3.9	11
130	Synthesis of achiral and racemic catenanes based on terpyridine and a directionalized terpyridine mimic, pyridyl-phenanthroline. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 3105-16	3.9	45
129	Anion mediated structural motifs in silver(I) complexes with corannulene. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 407-13	3.9	63
128	Synthesis and properties of 1,6,7,12,13,18,19,24-octamethylacenaphthylene[b,l]tetraphenylene. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 581-3	3.9	18
127	Genetic alphabetic order: what came before A?. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 1591-2	3.9	9
126	Preparation of 1,3,5-Tris(aminomethyl)-2,4,6-triethylbenzene from Two Versatile 1,3,5-Tri(halosubstituted) 2,4,6-Triethylbenzene Derivatives. <i>Synthesis</i> , <b>2005</b> , 2005, 2080-2083	2.9	15
125	Chemistry. Inventing the nanomolecular wheel. <i>Science</i> , <b>2005</b> , 310, 63-4	33.3	10
124	Synthesis and Properties of Monosubstituted Ethynylcorannulenes. <i>Synlett</i> , <b>2004</b> , 2004, 187-191	2.2	2
123	Chemistry. Chemical topology and interlocking molecules. <i>Science</i> , <b>2004</b> , 304, 1256-8	33.3	89
122	Stabilization of benzene versus oligoacetylenes: not another scale for aromaticity. <i>Journal of Physical Organic Chemistry</i> , <b>2004</b> , 17, 740-742	2.1	12
121	Ring selectivity and migratory aptitude of Cp* <i>Ru</i> <sup>+</sup> complexation to acecorannulene. <i>Chemical Communications</i> , <b>2004</b> , 950-1	5.8	34

120	Polysiloxane-bound ligand accelerated catalysis: a modular approach to heterogeneous and homogeneous macromolecular asymmetric dihydroxylation ligands. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 2287-98	3.9	31
119	Discovery of a novel binding trench in HIV integrase. <i>Journal of Medicinal Chemistry</i> , <b>2004</b> , 47, 1879-81	8.3	286
118	Structural Effects of Group VI Metal Tricarbonyl Binding to Benzenoid Rings: Interruption of Conjugation or Enhanced Aromaticity?. <i>Helvetica Chimica Acta</i> , <b>2003</b> , 86, 1587-1597	2	5
117	Ab Initio Structure/Reactivity Investigations of Illudin-Based Antitumor Agents: A Model for Reaction in vivo. <i>Helvetica Chimica Acta</i> , <b>2003</b> , 86, 4133-4151	2	7
116	Synthetic Approaches to a Molecular Borromeo Link: Two-Ring Threading with Polypyridine Templates. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 5880-5883	3.6	15
115	Synthetic approaches to a molecular Borromeo link: two-ring threading with polypyridine templates. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5702-5	16.4	81
114	Synthesis and properties of sym-pentasubstituted derivatives of corannulene. <i>Organic Letters</i> , <b>2003</b> , 5, 713-6	6.2	77
113	Tris(arylmethyl) derivatives of 1,3,5-trimethoxy- and 1,3,5-triethylbenzene. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 3699-701	4.2	28
112	Photorefractive Properties of Poly(siloxane)-triarylamine-Based Composites for High-Speed Applications. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 4732-4737	3.4	34
111	Through-space interactions between face-to-face, center-to-edge oriented arenes: importance of polar- $\pi$ effects. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 157-62	3.9	106
110	Directing power of cyclobutenoid annulations on the double bonds of planar cyclooctatetraenes. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 5514-7	16.4	21
109	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> , <b>2001</b> , 57, 536-44		72
108	Control of functional group proximity and direction by conformational networks: synthesis and stereodynamics of persubstituted arenes. <i>Tetrahedron</i> , <b>2001</b> , 57, 3615-3627	2.4	47
107	Lassen sich Molekle mit mehreren stereogenen Elementen nach der CIP-Nomenklatur angemessen beschreiben? Eine Fallstudie mit Vancomycin und verwandten Verbindungen. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 723-726	3.6	3
106	Trinuclear Copper(I)-bipyridine Triskelion: Template/Bascule Control of Coordination Complex Stereochemistry in a Trefoil Knot Precursor. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 771-773	3.6	19
105	Tetranuclear Copper(I)-Biphenanthroline Gridwork: Violation of the Principle of Maximal Donor Coordination Caused by Intercalation and CH-to-N Forces. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 773-776	3.6	11
104	Synthesis and Fluorescence Properties of Manisyl-Substituted Terpyridine, Bipyridine, and Phenanthroline. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 776-779	3.6	7
103	Does CIP Nomenclature Adequately Handle Molecules with Multiple Stereoelements? A Case Study of Vancomycin and Cognates. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 701-704	16.4	18

102	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> , <b>2001</b> , 40, 749-751	16.4	54
101	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> , <b>2001</b> , 40, 751-754	16.4	41
100	Synthesis and Fluorescence Properties of Manisyl-Substituted Terpyridine, Bipyridine, and Phenanthroline. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 754-757	16.4	95
99	Baskets, covered baskets, and basket balls: corannulene based cyclophanes as fullerene mimics. <i>Tetrahedron</i> , <b>2001</b> , 57, 3737-3742	2.4	25
98	Quantum mechanical designs toward planar delocalized cyclooctatetraene: a new target for synthesis. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 1755-9	16.4	45
97	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> , <b>2001</b> , 123, 517-25	16.4	246
96	Persistent oxidation dications from twisted fluoranthenes, benzo[k]fluoranthene and dimethyldibenzo[j.l]fluoranthene: charge delocalization mode, tropicity, and formation of novel 8,8'-bifluoranthenyls. An NMR and theoretical study. <i>Journal of Organic Chemistry</i> , <b>2001</b> , 66, 8701-8	4.2	4
95	Synthesis of Oligopyridines and Their Metal Complexes as Precursors to Topological Stereoisomers. <i>Organic Letters</i> , <b>2001</b> , 3, 967-969	6.2	16
94	Tetranuclear Copper(I)-Biphenanthroline Gridwork: Violation of the Principle of Maximal Donor Coordination Caused by Intercalation and CH-to-N Forces This work was supported by the US National Science Foundation (CHE-9904275). We thank Professor Tammy Dwyer for assistance with the 2D NMR experiments.. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 751-754	16.4	4
93	Synthesis of oligopyridines and their metal complexes as precursors to topological stereoisomers. <i>Organic Letters</i> , <b>2001</b> , 3, 967-9	6.2	19
92	Synthesis and Properties of 2,3-Dihydro-1H-corannuleno[2,3-cd]pyridine (=2,3-Dihydro-1H-dibenzo[1,10 : 6,7]fluorantheno[3,4-cd]pyridine) Derivatives: Heterocyclic peri-Anellated Corannulenes. <i>Helvetica Chimica Acta</i> , <b>2000</b> , 83, 2644-2654	2	9
91	Phenyl/Pentafluorophenyl Interactions and the Generation of Ordered Mixed Crystals: sym-Triphenethynylbenzene and sym-Tris(perfluorophenethynyl)benzene. <i>Angewandte Chemie</i> , <b>2000</b> , 112, 2413-2415	3.6	30
90	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> , <b>2000</b> , 39, 2323-2325	16.4	161
89	Ionization of corannulene and 1,6-dimethylcorannulene: photoelectron spectra, electrochemistry, charge transfer bands and ab initio computations. <i>Tetrahedron Letters</i> , <b>2000</b> , 41, 4519-4522	2	45
88	Ab Initio Computational Study of Environmentally Harmful Gasoline Additives: Methyl tert-Butyl Ether and Analogues. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 11106-11110	2.8	11
87	A new class of HIV-1 integrase inhibitors: the 3,3,3', 3'-tetramethyl-1,1'-spirobi(indan)-5,5',6,6'-tetrol family. <i>Journal of Medicinal Chemistry</i> , <b>2000</b> , 43, 2031-9	8.3	48
86	Reinvestigation of Allyl cations: High level Ab initio quantum mechanical predictions. <i>Tetrahedron Letters</i> , <b>1999</b> , 40, 3503-3506	2	5
85	Integration complexes derived from HIV vectors for rapid assays in vitro. <i>Nature Biotechnology</i> , <b>1999</b> , 17, 578-82	44.5	45

84	Canastanes: Ab Initio Quantum Mechanical Prediction of New Curved Polynuclear Aromatic Hydrocarbon Motif. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 5332-5333	16.4	20
83	Correlation of Empirical ( $^1\text{H}$ ) and Absolute NMR Chemical Shifts Predicted by ab Initio Computations. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 4038-4042	2.8	83
82	Synthesis of Corannulene and Alkyl Derivatives of Corannulene. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 7804-7813	16.4	200
81	Synthesis and Quantum Mechanical Structure of sym-Pentamethylcorannulene and Decamethylcorannulene. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 7439-7440	16.4	79
80	Envelope-Flip Dynamics in CpCo(Diene) Complexes: an ab Initio Quantum Mechanical Study. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 10126-10131	2.8	7
79	Spectroscopic determination of trap density in C60-sensitized photorefractive polymers. <i>Chemical Physics Letters</i> , <b>1998</b> , 291, 553-561	2.5	86
78	Synthesis of unsymmetrical 2,8- and 2,9-dihalo-1,10-phenanthrolines and derivatives. <i>Tetrahedron Letters</i> , <b>1998</b> , 39, 2697-2700	2	31
77	Chemical chirality from the frontier of mathematics to biology: Chirality medalist Kurt Martin Mislow. <i>Chirality</i> , <b>1998</b> , 10, 3-7	2.1	6
76	Homochiral imperative of molecular evolution. <i>Chirality</i> , <b>1998</b> , 10, 24-27	2.1	146
75	Design of Novel Aromatics using the Loschmidt Replacement on Graphs. <i>Topics in Current Chemistry</i> , <b>1998</b> , 1-43		10
74	X-Ray crystal and ab initio structure of 3-ethynylcyclopropene: a curiously short carbon-carbon double bond. <i>Chemical Communications</i> , <b>1998</b> , 1137-1138	5.8	10
73	Synthesis of Bifunctional Photorefractive Polymers with Net Gain: Design Strategy Amenable to Combinatorial Optimization. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 9680-9681	16.4	36
72	Face Selectivity in the Hydrogenation of Calixarene Ethers. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 9148-9149	2.1	3
71	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> , <b>1998</b> , 120, 6167-6168	16.4	40
70	Homochiral imperative of molecular evolution <b>1998</b> , 10, 24		60
69	Hexahapto Metal Coordination to Curved Polyaromatic Hydrocarbon Surfaces: The First Transition Metal Corannulene Complex. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 4781-4782	16.4	114
68	Does Through-Bond Coupling Significantly Increase C-C Bond Lengths?. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 7048-7054	16.4	44
67	Glycolonitrile oligomerization: structure of isolated oxazolines, potential heterocycles on the early earth. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 5522-5	4.2	11

66	Corannulene-based fullerene fragments C <sub>20</sub> H <sub>10</sub> -C <sub>50</sub> H <sub>10</sub> : when does a buckyball become a buckytube?. <i>Theoretical Chemistry Accounts</i> , <b>1997</b> , 97, 67-71	1.9	66
65	Synthesis of pyridylstannanes from halopyridines and hexamethyldistannane with catalytic palladium. <i>Tetrahedron Letters</i> , <b>1997</b> , 38, 4737-4740	2	37
64	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> , <b>1997</b> , 36, 745-748		37
63	Voraussagen zur Struktur von [18]Annulenen mit ab-initio-Dichtefunktional- und Hartree-Fock-Rechnungen im Vergleich: Belege für Bindungslokalisierung und verringerte Ringströme in bicycloannelierten [18]Annulenen. <i>Angewandte Chemie</i> , <b>1997</b> , 109, 765-768	3.6	1
62	Structure and Dynamics of the Cr(CO) <sub>3</sub> Complexes of Triquinacene and Dimethylenecyclobutene by Hartree-Fock and Density Functional Methods. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 6111-6115		8
61	Synthesis and Characterization of the First Corannulene Cyclophane. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 2754-2755	16.4	118
60	Molecular Collectives: Supramolecular Chemistry.. <i>Science</i> , <b>1996</b> , 271, 949-949	33.3	9
59	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> , <b>1996</b> , 118, 2907-2911	16.4	27
58	Enantioselektive Synthese von Helicaten auf Bipyridin-Kupfer(I)-Basis durch den Templateffekt eines chiralen Sekundärstrukturelements: Übertragung von stereochemischer Information im Nanometerbereich. <i>Angewandte Chemie</i> , <b>1996</b> , 108, 1977-1980	3.6	40
57	Synthesis and Structure of the Nanodimensional Multicyclophane Kuratowski Cyclophane: An Achiral Molecule with Nonplanar K <sub>3,3</sub> Topology. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 34, 2657-2660		18
56	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> , <b>1996</b> , 35, 1830-1833		156
55	Synthesis of metallomacrocyclophanes: Deduction of structure from electrospray ionization mass spectroscopy and molecular mechanics computations. <i>Tetrahedron</i> , <b>1995</b> , 51, 6195-6208	2.4	15
54	Long C-C single bonds in anthracene dimers: The structure of bi(anthracene-9,10-dimethylene) photodimer is redetermined. <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 845-848	2	36
53	The crystal structure of a heptiptycene-chlorobenzene clathrate. <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 2419-2422		26
52	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> , <b>1995</b> , 36, 3489-3490	2	73
51	Partial bond localization in the crystal structure of trisbicyclo[2.2.1]heptabenzene and its effect on Cr-arene dynamics. <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 4389-4392	2	36
50	Chirally enshrouded 2,6-diarylbenzoic acids with two-fold symmetry. <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 8403-8406		16
49	Interaction between stacked aryl groups in 1,8-diarylnaphthalenes: Dominance of polar/charge-transfer effects. <i>Pure and Applied Chemistry</i> , <b>1995</b> , 67, 683-689	2.1	194

- 48 Synthesis and Conformational Analysis of Trioxatricornan-Based Macrocyclophanes. *Journal of Organic Chemistry*, **1995**, 60, 2885-2890 4.2 23
- 47 Synthesis and Characterization of Trisbicyclo[2.1.1]hexabenzene, a Highly Strained Bicycloannelated Benzene. *Journal of the American Chemical Society*, **1995**, 117, 2102-2103 16.4 84
- 46 The Central Bond Length in 1,2-Diarylethanes. *Journal of the American Chemical Society*, **1995**, 117, 4479-4482 16.4 22
- 45 Polare Wechselwirkungen zwischen gestapelten  $\pi$ -Systemen in fluorierten 1,8-Diarylnaphthalinen: Bedeutung des Quadrupolmoments für die molekulare Erkennung. *Angewandte Chemie*, **1995**, 107, 1092-1094 3.6 65
- 44 Kristallographischer Nachweis der Cyclohexatrien-Struktur von Tris(bicyclo[2.1.1]hexeno)benzol: Bindungsfolgenalternanz nach Widerlegung der Mills-Nixon-Theorie. *Angewandte Chemie*, **1995**, 107, 1575-1577 3.6 33
- 43 Synthese und Struktur eines nanodimensionierten Multicyclophanen: das Kuratowski-Cyclophanen ein Beispiel für ein achirales, nichtplanares K<sub>3,3</sub>-Stereolement. *Angewandte Chemie*, **1995**, 107, 2870-2873 3.6 12
- 42 Polar Interactions between Stacked  $\pi$ -Systems in Fluorinated 1,8-Diarylnaphthalenes: Importance of Quadrupole Moments in Molecular Recognition. *Angewandte Chemie International Edition in English*, **1995**, 34, 1019-1020 258
- 41 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. *Angewandte Chemie International Edition in English*, **1995**, 34, 1454-1456 106
- 40 Mills-nixon effects?. *Advances in Theoretically Interesting Molecules*, **1995**, 209-260 29
- 39 Unusual Photoluminescence Behavior of C<sub>70</sub>. *The Journal of Physical Chemistry*, **1994**, 98, 7350-7354 26
- 38 Mills-Nixon Effect: Wherefore Art Thou?. *Angewandte Chemie International Edition in English*, **1994**, 33, 1721-1723 87
- 37 Der Mills-Nixon-Effekt: Zu welchem Ende?. *Angewandte Chemie*, **1994**, 106, 1808-1810 3.6 21
- 36 Through-Space Polar- $\pi$ . Effects on the Acidity and Hydrogen-Bonding Capacity of Carboxylic Acids. *Journal of the American Chemical Society*, **1994**, 116, 5959-5960 16.4 58
- 35 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. *Journal of the American Chemical Society*, **1993**, 115, 10782-10785 16.4 40
- 34 Synthesis, structure, and dynamics of endo-(starphenylene)chromium tricarbonyl derivatives: observation of metal-arene migration and hindered metal-tripod rotation. *Journal of the American Chemical Society*, **1993**, 115, 6138-6142 16.4 38
- 33 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. *Journal of the American Chemical Society*, **1993**, 115, 7944-7953 16.4 78
- 32 1,6,7,10-Tetramethylfluoranthene: Synthesis and structure of a twisted polynuclear aromatic hydrocarbon.. *Tetrahedron Letters*, **1993**, 34, 273-276 2 19
- 31 Dominance of polar- $\pi$  over charge-transfer effects in stacked phenyl interactions. *Journal of the American Chemical Society*, **1993**, 115, 5330-5331 16.4 339

30	Left-handed comments. <i>Science</i> , <b>1992</b> , 258, 1290	33.3	3
29	Polar/ $\pi$ interactions between stacked aryls in 1,8-diarylnaphthalenes. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 5729-5733	16.4	284
28	Synthesis of trioxatricornan and derivatives. Useful keystones for the construction of rigid molecular cavities. <i>Journal of Organic Chemistry</i> , <b>1992</b> , 57, 61-69	4.2	47
27	Bond alternation in triannelated benzenes: dissection of cyclic $\pi$ from Mills-Nixon effects. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 9583-9587	16.4	116
26	Structure of centrally bound angular-(terphenylene)chromium tricarbonyl. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 369-371	16.4	16
25	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> , <b>1992</b> , 114, 255-261	16.4	58
24	Synthesis and dynamics of the corannulene nucleus. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 1921-1923	16.4	213
23	Cryptoclastic diastereotopism: NMR evidence for the chirotopicity of the methyl group in ( $\alpha$ -deuterio- <i>o</i> -chlorotoluene)chromium tricarbonyl. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 1091-1092	16.4	18
22	Experimental observation of the barrier to rotation around the metal-arene bond in [1,4-bis(4,4-dimethyl-3-oxopentyl)-2,3,5,6-tetraethylbenzene]molybdenum tricarbonyl. <i>Organometallics</i> , <b>1992</b> , 11, 1426-1427	3.8	9
21	Torsional angles in alkenylarenes studied by semiempirical molecular orbital methods. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 9208-9210		6
20	Synthesis of Unsubstituted and 4,4'-Substituted Oligobipyridines as Ligand Strands for Helicate Self-Assembly. <i>Helvetica Chimica Acta</i> , <b>1991</b> , 74, 594-610	2	56
19	Torsional angle and conformation in 2-vinylanthracene studied by NMR spectroscopy and MO calculations. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 9211-9213		6
18	Synthesis, structures, and dynamics of a macrocyclophane. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 8785-8790	16.4	36
17	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> , <b>1991</b> , 113, 2332-2333	16.4	29
16	Second-harmonic generation from non-dipolar non-centrosymmetric aromatic charge-transfer molecules. <i>Chemical Physics Letters</i> , <b>1990</b> , 172, 440-444	2.5	157
15	Structure and reactivity of illudins. <i>Tetrahedron</i> , <b>1989</b> , 45, 5433-5440	2.4	35
14	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> , <b>1989</b> , 111, 5940-5944	16.4	26
13	Dichlorofluoromethane- <i>d</i> : a versatile solvent for VT-NMR experiments. <i>Journal of Organic Chemistry</i> , <b>1988</b> , 53, 2629-2630	4.2	149



12	An induced barrier to rotation about the $\eta^6$ -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> , <b>1988</b> , 110, 3675-3676	16.4	24
11	Spontaneous assembly of double-stranded helicates from oligobipyridine ligands and copper(II) cations: structure of an inorganic double helix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1987</b> , 84, 2565-9	11.5	711
10	Conformational cycloenantiomerism in 1,2-bis(1-bromoethyl)-3,4,5,6-tetraisopropylbenzene. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 3397-3402	16.4	21
9	Static and dynamic stereochemistry of hexaisopropylbenzene: a gear-meshed hydrocarbon of exceptional rigidity. <i>Journal of the American Chemical Society</i> , <b>1986</b> , 108, 1569-1575	16.4	47
8	Synthesis of sec-alkylacetylenes. Reduction of cobalt carbonyl complexes of acetylenic alcohols. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 4999-5001	16.4	60
7	Conformations and internal mobility of side chains in heterosubstituted hexaalkylbenzenes. Isopropyl/ethyl and isopropyl/cyclopropyl systems. <i>Journal of Organic Chemistry</i> , <b>1985</b> , 50, 5822-5827	4.2	13
6	DeBranges' Proof. <i>Science</i> , <b>1984</b> , 226, 240	33.3	
5	Stereochemistry. <i>Science</i> , <b>1984</b> , 226, 240	33.3	
4	Stereoisomerism and local chirality. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 3319-3328	16.4	340
3	Experimental evidence for a high barrier to internal rotation in hexaisopropylbenzene. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 7763-7764	16.4	7
2	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> , <b>1983</b> , 105, 1419-1426	16.4	48
1	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> , <b>1981</b> , 20, 4306-4311	5.1	24