

# Lawrence T Scott

## List of Publications by Citations

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372  
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15,597  
ext. citations

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L-index

#	Paper	IF	Citations
288	Geodesic polyarenes by flash vacuum pyrolysis. <i>Chemical Reviews</i> , <b>2006</b> , 106, 4868-84	68.1	622
287	Gas-phase production and photoelectron spectroscopy of the smallest fullerene, C <sub>20</sub> . <i>Nature</i> , <b>2000</b> , 407, 60-3	50.4	614
286	A grossly warped nanographene and the consequences of multiple odd-membered-ring defects. <i>Nature Chemistry</i> , <b>2013</b> , 5, 739-44	17.6	441
285	A rational chemical synthesis of C <sub>60</sub> . <i>Science</i> , <b>2002</b> , 295, 1500-3	33.3	359
284	Corannulene bowl-to-bowl inversion is rapid at room temperature. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 1920-1921	16.4	289
283	Fragments of fullerenes: Novel syntheses, structures and reactions. <i>Pure and Applied Chemistry</i> , <b>1996</b> , 68, 291-300	2.1	286
282	Corannulene. A convenient new synthesis. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 7082-7084	16.4	286
281	A short, rigid, structurally pure carbon nanotube by stepwise chemical synthesis. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 107-10	16.4	283
280	Orbital conjugation and rehybridization in bridged annulenes and deformed molecules in general: Orbital axis vector analysis. <i>Pure and Applied Chemistry</i> , <b>1986</b> , 58, 137-142	2.1	256
279	Hole-Transporting Materials with a Two-Dimensionally Expanded $\pi$ System around an Azulene Core for Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15656-9	16.4	238
278	Methods for the chemical synthesis of fullerenes. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4994-5007	16.4	210
277	Diels-Alder reactivity of polycyclic aromatic hydrocarbon bay regions: implications for metal-free growth of single-chirality carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16006-7	16.4	202
276	Corannulene. A Three-Step Synthesis <sup>1</sup> . <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 10963-10968	16.4	199
275	Geodesic polyarenes with exposed concave surfaces. <i>Pure and Applied Chemistry</i> , <b>1999</b> , 71, 209-219	2.1	185
274	Pentaindenocorannulene and tetraindenocorannulene: new aromatic hydrocarbon $\pi$ systems with curvatures surpassing that of C <sub>60</sub> . <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 484-5	16.4	180
273	X-ray quality geometries of geodesic polyarenes from theoretical calculations: what levels of theory are reliable?. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 5713-6	4.2	174
272	Stable high-order molecular sandwiches: hydrocarbon polyanion pairs with multiple lithium ions inside and out. <i>Science</i> , <b>1994</b> , 265, 1065-7	33.3	167

271	Groundwork for a rational synthesis of C60: cyclodehydrogenation of a C60H30 polyarene. <i>Science</i> , <b>2001</b> , 294, 828-31	33.3	162
270	Aromatic pi-systems more curved than C(60). The complete family of all indenocorannulenes synthesized by iterative microwave-assisted intramolecular arylations. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10537-45	16.4	152
269	Embracing C(60) with multiarmed geodesic partners. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 12770-4	16.4	148
268	Interstellar chemistry: a strategy for detecting polycyclic aromatic hydrocarbons in space. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 4345-9	16.4	144
267	Rearrangements and interconversions of compounds of the formula (CH) <sub>n</sub> . <i>Chemical Reviews</i> , <b>1972</b> , 72, 181-202	68.1	134
266	Corannulene Tetraanion: A Novel Species with Concentric Anionic Rings. <i>Angewandte Chemie International Edition in English</i> , <b>1992</b> , 31, 1636-1637		133
265	A new suzuki-heck-type coupling cascade: indeno[1,2,3]-annelation of polycyclic aromatic hydrocarbons. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 883-7	4.2	132
264	Corannulene Reduction: Spectroscopic Detection of All Anionic Oxidation States. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 6254-6257	16.4	125
263	Synthesis and Characterization of a C36H12 Fullerene Subunit. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 8743-8744	16.4	125
262	Conjugated belts and nanorings with radially oriented p orbitals. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 4133-5	16.4	123
261	Pushing the Ir-catalyzed C-H polyborylation of aromatic compounds to maximum capacity by exploiting reversibility. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15169-72	16.4	114
260	Coordination chemistry of buckybowls: from corannulene to a hemifullerene. <i>Dalton Transactions</i> , <b>2005</b> , 2969-75	4.3	114
259	One-step conversion of aromatic hydrocarbon bay regions into unsubstituted benzene rings: a reagent for the low-temperature, metal-free growth of single-chirality carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6626-8	16.4	112
258	Novel Syntheses of Three C30H12 Bowl-Shaped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie International Edition in English</i> , <b>1997</b> , 36, 406-408		109
257	Elaboration of diaryl ketones into naphthalenes fused on two or four sides: a naphthoannulation procedure. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3108-12	16.4	108
256	New strategies for synthesizing short sections of carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5400-2	16.4	104
255	Imposing curvature on a polyarene by intramolecular palladium-catalyzed arylation reactions: A simple synthesis of Dibenzo. <i>Organic Letters</i> , <b>2000</b> , 2, 1427-30	6.2	104
254	Circumtrindene: A Geodesic Dome of Molecular Dimensions. Rational Synthesis of 60 of C601. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2719-2724	16.4	103

253	Concave polyarenes with sulfide-linked flaps and tentacles: new electron-rich hosts for fullerenes. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 6158-63	4.2	100
252	Hemibuckminsterfullerene C(30)H(12): X-ray crystal structures of the parent hydrocarbon and of the two-dimensional organometallic network $[[\text{Rh}(2)(\text{O}(2)\text{CCF}(3))(4)](3)\times\text{C}(30)\text{H}(12)]$ . <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 5477-81	16.4	100
251	$^3\text{He}$ NMR of He@C606-and He@C706-. New Records for the Most Shielded and the Most Deshielded $^3\text{He}$ Inside a Fullerene. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 6389-6393	16.4	99
250	A Quintuple [6]Helicene with a Corannulene Core as a C <sub>5</sub> -Symmetric Propeller-Shaped $\pi$ -System. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1337-1341	16.4	96
249	Carbon nanotubes from short hydrocarbon templates. Energy analysis of the Diels-Alder cycloaddition/rearomatization growth strategy. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1373-1381		95
248	Synthesis and Characterization of the Three Dicyclopentapyrenes. <i>Journal of Organic Chemistry</i> , <b>1996</b> , 61, 386-388	4.2	90
247	Palladium-catalyzed C-H activation taken to the limit. Flattening an aromatic bowl by total arylation. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15664-7	16.4	84
246	Electrochemical and theoretical investigation of corannulene reduction processes. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1954-62	3.4	84
245	Identification of C <sub>20</sub> H <sub>10</sub> Dicyclopentapyrenes in Flames: Correlation with Corannulene and Fullerene Formation. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 17421-17428		84
244	Hexaspiro[2.4.2.4.2.4.2.4.2.4]dotetraconta-4,6,11,13,18,20,25,27,32,34,39,41-dodecayne An Exploding [6]Rotane. <i>Angewandte Chemie International Edition in English</i> , <b>1994</b> , 33, 869-871		84
243	Intense and Tunable Electrochemiluminescence of Corannulene. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 19467-19472	3.8	83
242	Cyclynes. Part 4. Pericyclynes of the order [5], [6], [7], and [8]. Simple convergent syntheses and chemical reactions of the first homoconjugated cyclic polyacetylenes. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 6546-6555	16.4	83
241	Completely Spirocyclopropanated Macrocyclic Oligodiacetylenes: The Family of Exploding [n]Rotanes. <i>Chemistry - A European Journal</i> , <b>1995</b> , 1, 124-131	4.8	82
240	Stability and aromaticity of the cyclopenta-fused pyrene congeners. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 2363-70	16.4	81
239	Thermal rearrangements of aromatic compounds. <i>Accounts of Chemical Research</i> , <b>1982</b> , 15, 52-58	24.3	80
238	Thermal rearrangements of aromatic compounds. 11. Benzene ring contractions at high temperatures. Evidence from the thermal interconversions of aceanthrylene, acephenanthrylene, and fluoranthene. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 5461-5465	16.4	76
237	$\pi$ -Interactions and Solid State Packing Trends of Polycyclic Aromatic Bowls in the Indenocorannulene Family: Predicting Potentially Useful Bulk Properties. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 4607-4621	3.5	74
236	Gas-phase ion/molecule reactions of corannulene, a fullerene subunit. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 11636-11637	16.4	73

235	Corannulene and its penta-tert-butyl derivative co-crystallize 1:1 with pristine C60-fullerene. <i>Chemical Communications</i> , <b>2012</b> , 48, 5563-5	5.8	71
234	Oligoindenopyrenes: a new class of polycyclic aromatics. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 9080-7	4.2	71
233	Transition-metal complexes of an open geodesic polyarene. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 3375-9	16.4	71
232	Nearly exclusive growth of small diameter semiconducting single-wall carbon nanotubes from organic chemistry synthetic end-cap molecules. <i>Nano Letters</i> , <b>2015</b> , 15, 586-95	11.5	69
231	A Water-Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2874-2878	16.4	65
230	Modeling of Supramolecular Properties of Molecular Tweezers, Clips, and Bowls. <i>Journal of Molecular Modeling</i> , <b>2000</b> , 6, 318-327	2	64
229	Intermolecular carbon-hydrogen insertion of copper carbenoids. <i>Journal of the American Chemical Society</i> , <b>1974</b> , 96, 322-323	16.4	60
228	Estimation of the electron affinities of C60, corannulene, and coronene by using the kinetic method. <i>Journal of the American Society for Mass Spectrometry</i> , <b>1996</b> , 7, 619-27	3.5	59
227	Reduction of bowl-shaped hydrocarbons: dianions and tetraanions of annelated corannulenes. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 290-8	4.2	58
226	A short new azulene synthesis. <i>Journal of the American Chemical Society</i> , <b>1980</b> , 102, 6311-6314	16.4	58
225	Synthesis, Properties, and Packing Structures of Corannulene-Based Systems Containing Heptagons. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 1635-9	4.5	57
224	Gas-phase Diels-Alder cycloaddition of benzyne to an aromatic hydrocarbon bay region: Groundwork for the selective solvent-free growth of armchair carbon nanotubes. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 2051-2053	2	57
223	Practical synthesis of an open geodesic polyarene with a fullerene-type 6:6-double bond at the center: diindeno[1,2,3,4-defg;1',2',3',4'-mnop]chrysene. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 8870-5	16.4	57
222	Foregoing rigidity to achieve greater intimacy. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 8473-6	6.4	55
221	Ball-and-socket stacking of supercharged geodesic polyarenes: bonding by interstitial lithium ions. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 9581-7	16.4	55
220	Methoden zur chemischen Synthese von Fullerenen. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 5102-5116	3.6	55
219	Das Corannulen-Tetraanion, eine neuartige Spezies mit konzentrischen anionischen Ringen. <i>Angewandte Chemie</i> , <b>1992</b> , 104, 1691-1692	3.6	55
218	Organic chemistry on the solid phase. Site-site interactions on functionalized polystyrene. <i>Journal of the American Chemical Society</i> , <b>1977</b> , 99, 625-626	16.4	55

217	A Quintuple [6]Helicene with a Corannulene Core as a C <sub>5</sub> -Symmetric Propeller-Shaped ESystem. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 1351-1355	3.6	53
216	Microscopic origin of chiral shape induction in achiral crystals. <i>Nature Chemistry</i> , <b>2016</b> , 8, 326-30	17.6	53
215	Unprecedented Complexation of Two Transition Metals to the Concave Surface of a Geodesic Polyarene: {[Rh <sub>2</sub> (O <sub>2</sub> CCF <sub>3</sub> ) <sub>4</sub> ] <sub>3</sub> (dibenzo[a,g]corannulene) <sub>2</sub> }. <i>Organometallics</i> , <b>2005</b> , 24, 1394-1397	3.8	53
214	1,2-Shifts of Hydrogen Atoms in Aryl Radicals. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 5444-5449	16.4	53
213	Corannulene "hub" carbon coordination by [Ru <sub>2</sub> {O <sub>2</sub> C(3,5-CF <sub>3</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>3</sub> ] <sub>2</sub> (CO) <sub>5</sub> ]. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 7208-10	16.4	52
212	Enhancement of Through-Space and Through-Bond $\pi$ -Orbital Interactions. Syntheses and Properties of Permethylated and Perspirocyclopropanated Cyclotetradeca-1,3,6,9,12-pentayne. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10275-10283	16.4	52
211	An unusual ground-state di- $\pi$ -methane rearrangement in the thermal isomerization of homoazulene. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 1147-1149	16.4	52
210	Dianions and Tetraanions of Bowl-Shaped Fullerene Fragments Dibenzo[a,g]corannulene and Dibenzo[a,g]cyclopenta[kl]corannulene. <i>Chemistry - A European Journal</i> , <b>1998</b> , 4, 234-239	4.8	51
209	Decamethyl[5]pericyclyne. A novel homoconjugated cyclic polyacetylene. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 7760-7761	16.4	51
208	C <sub>20</sub> carbon clusters: fullerene-boat-sheet generation, mass selection, photoelectron characterization. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 6268-80	4.8	49
207	Free-electron attachment to coronene and corannulene in the gas phase. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 104308	3.9	49
206	Single and Double Ionization of Corannulene and Coronene. <i>Helvetica Chimica Acta</i> , <b>2001</b> , 84, 1625-1634		49
205	Chemistry at the interior atoms of polycyclic aromatic hydrocarbons. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 6464-71	58.5	48
204	Steps toward the synthesis of a geodesic C <sub>60</sub> H <sub>12</sub> end cap for a C <sub>3v</sub> carbon [6,6]nanotube. <i>Tetrahedron</i> , <b>2008</b> , 64, 11360-11369	2.4	48
203	Cyclynes. 7. Homoconjugated cyclic poly(diacetylene)s. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 4054-4055	16.4	48
202	High temperature behavior of alternant and nonalternant polycyclic aromatic hydrocarbons. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2000</b> , 54, 65-87	6	47
201	Thermal cyclodehydrogenations to form 6-membered rings: cyclizations of [5]helicenes. <i>Organic Letters</i> , <b>2007</b> , 9, 3937-40	6.2	46
200	Novel heterocycles comprised of alternating phosphorous atoms and alkyne units. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 7823-7825	16.4	46

199	Azulene thermal rearrangements. Carbon-13 labeling studies of automerization and isomerization to naphthalene. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 5875-5879	16.4	46
198	Corannulene-Helicene Hybrids: Chiral $\pi$ Systems Comprising Both Bowl and Helical Motifs. <i>Organic Letters</i> , <b>2016</b> , 18, 3992-5	6.2	46
197	HRMS directly from TLC slides. A powerful tool for rapid analysis of organic mixtures. <i>Organic Letters</i> , <b>2008</b> , 10, 3493-6	6.2	44
196	Konjugierte Gitter und Nanoringe mit radial orientierten p-Orbitalen. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 4265-4267	3.6	44
195	Squeezing C-C bonds. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 7549-53	16.4	44
194	Pyrolytic production of fullerenes. <i>Synthetic Metals</i> , <b>1996</b> , 77, 17-22	3.6	44
193	Generation, rearrangement, and interconversion of hydrocarbons related to bullvalene. <i>Journal of the American Chemical Society</i> , <b>1970</b> , 92, 3118-3126	16.4	44
192	POLYCYCLIC AROMATIC HYDROCARBON BOWLS, BASKETS, BALLS, AND TUBES: CHALLENGING TARGETS FOR CHEMICAL SYNTHESIS. <i>Polycyclic Aromatic Compounds</i> , <b>2010</b> , 30, 247-259	1.3	43
191	Identification of Some Novel Cyclopenta-Fused Polycyclic Aromatic Hydrocarbons in Ethylene Flames. <i>Polycyclic Aromatic Compounds</i> , <b>1998</b> , 12, 223-237	1.3	43
190	Trisannulated benzene derivatives by Acid catalyzed aldol cyclotrimerizations of cyclic ketones. Methodology development and mechanistic insight. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 3412-8	4.2	42
189	Carbon-13 Shift Tensors in Polycyclic Aromatic Compounds. 8.1 A Low-Temperature NMR Study of Coronene and Corannulene. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 149-155	2.8	42
188	Cyclynes. Part 5. Pericyclynes: "exploded cycloalkanes" with unusual orbital interactions and conformational properties. MM2 and STO-3G calculations, x-ray crystal structures, photoelectron spectra, and electron transmission spectra. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 6556-6562	16.4	42
187	The quinones of azulene. A theoretical prognosis. <i>Journal of the American Chemical Society</i> , <b>1980</b> , 102, 5169-5176	16.4	42
186	Synthesis and structural features of thiophene-fused analogues of warped nanographene and quintuple helicene. <i>Chemical Science</i> , <b>2019</b> , 10, 2326-2330	9.4	41
185	Bicorannulenyl: stereochemistry of a C <sub>40</sub> H <sub>18</sub> biaryl composed of two chiral bowls. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 6073-8	4.2	41
184	Corannulene: A Preference for exo-Metal Binding. X-ray Structural Characterization of [Ru <sub>2</sub> (O <sub>2</sub> CCF <sub>3</sub> ) <sub>2</sub> (CO) <sub>4</sub> [( $\eta$ -C <sub>20</sub> H <sub>10</sub> ) <sub>2</sub> ]. <i>Organometallics</i> , <b>2006</b> , 25, 5492-5495	3.8	41
183	Electron transfer in a supramolecular associate of a fullerene fragment. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2170-5	16.4	40
182	Hemibuckminsterfullerene C <sub>30</sub> H <sub>12</sub> : X-ray Crystal Structures of the Parent Hydrocarbon and of the Two-Dimensional Organometallic Network {[Rh <sub>2</sub> (O <sub>2</sub> CCF <sub>3</sub> ) <sub>4</sub> ] <sub>3</sub> ·(C <sub>30</sub> H <sub>12</sub> )}. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 5593-5597	3.6	40



- 181 Highly charged supramolecular oligomers based on the dimerization of corannulene tetraanion. *Chemical Communications*, **2010**, 46, 9010-2 5.8 39
- 180 X-ray and density functional theory structural study of 1,3,5,7,9-penta-tert-butylcorannulene, C<sub>40</sub>H<sub>50</sub>. *Journal of Organic Chemistry*, **2006**, 71, 6615-8 4.2 39
- 179 Cyclines. 9. Regioselective coupling of ethynylcyclopropane units: hexaspiro[2.0.2.4.2.0.2.4.2.0.2.4]triaconta-7,9,17,19,27,29-hexayne. *Journal of the American Chemical Society*, **1991**, 113, 3935-3941 16.4 38
- 178 Diels-Alder cycloaddition of acetylene gas to a polycyclic aromatic hydrocarbon bay region. *Chemical Communications*, **2012**, 48, 8102-4 5.8 37
- 177 Thermal rearrangements of aromatic compounds. 10. Automerization of benzene. *Journal of the American Chemical Society*, **1987**, 109, 5456-5461 16.4 37
- 176 Molecular curvature tradeoffs: Bending a planar trimercury unit over bowl-shaped polyaromatic hydrocarbons. *Journal of Organometallic Chemistry*, **2011**, 696, 2877-2881 2.3 36
- 175 Synthesis and Structure of a Propeller-Shaped Polycyclic Aromatic Hydrocarbon Containing Seven-Membered Rings. *Organic Letters*, **2018**, 20, 1932-1935 6.2 35
- 174 Benzo[a]acecorannulene: surprising formation of a new bowl-shaped aromatic hydrocarbon from an attempted synthesis of 1,2-diazadibenzo[d,m]corannulene. *Organic Letters*, **2006**, 8, 5195-8 6.2 35
- 173 A four-step alternating reductive dimerization/bond cleavage of indenocorannulene. *Angewandte Chemie - International Edition*, **2002**, 41, 1712-5 16.4 35
- 172 Search for corannulene (C<sub>20</sub>H<sub>10</sub>) in the Red Rectangle. *Monthly Notices of the Royal Astronomical Society*, **2009**, 397, 1053-1060 4.3 34
- 171 Thermal migration of an ethynyl group from one benzene ring to another by reversible vinylidene C-H insertion. *Tetrahedron Letters*, **1997**, 38, 1877-1880 2 34
- 170 Addition of dihalocarbenes to corannulene. A fullerene-type reaction. *Tetrahedron Letters*, **2000**, 41, 9633-9637 2 34
- 169 An oxidation induced by potassium metal. Studies on the anionic cyclodehydrogenation of 1,1'-binaphthyl to perylene. *Journal of Organic Chemistry*, **2010**, 75, 7358-64 4.2 33
- 168 Increasing the Curvature of a Bowl-Shaped Polyarene by Fullerene-like  $\pi$ -Complexation of a Transition Metal at the Interior of the Convex Surface. *Organometallics*, **2010**, 29, 1231-1237 3.8 33
- 167 5-Azadibenzo[a,g]corannulene. *Organic Chemistry Frontiers*, **2017**, 4, 688-698 5.2 32
- 166 Expanding the Suzuki-Miyaura-Type Coupling Cascade: A New Indeno[1,2,3]-Annulation of Polycyclic Aromatic Hydrocarbons. *Advanced Synthesis and Catalysis*, **2009**, 351, 1009-1013 5.6 32
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