Rik R Tykwinski

List of Publications by Year
in descending order

296	12,776	23567 58	37204 96
papers	citations	h-index	g-index

349	349	349	8981
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of polyynes to model the sp-carbon allotrope carbyne. Nature Chemistry, 2010, 2, 967-971.	13.6	461
2	Synthesis of Naturally Occurring Polyynes. Angewandte Chemie - International Edition, 2006, 45, 1034-1057.	13.8	396
3	Supramolecular Assembly Model for Aggregation of Petroleum Asphaltenes. Energy & Fuels, 2011, 25, 3125-3134.	5.1	385
4	Singlet fission in pentacene dimers. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5325-5330.	7.1	368
5	Polyynes as a Model for Carbyne:Â Synthesis, Physical Properties, and Nonlinear Optical Response. Journal of the American Chemical Society, 2005, 127, 2666-2676.	13.7	366
6	Evolution in the Palladium-Catalyzed Cross-Coupling of sp- and sp2-Hybridized Carbon Atoms. Angewandte Chemie - International Edition, 2003, 42, 1566-1568.	13.8	354
7	Oligomeric and Polymeric Systems with a Cross-conjugated Ï€-Frameworkâ€. Chemical Reviews, 2006, 106, 4997-5027.	47.7	322
8	Structureâ^'Property Relationships in Third-Order Nonlinear Optical Chromophores. Journal of Physical Chemistry B, 1998, 102, 4451-4465.	2.6	249
9	Carbon-atom wires: 1-D systems with tunable properties. Nanoscale, 2016, 8, 4414-4435.	5.6	221
10	Unified model for singlet fission within a non-conjugated covalent pentacene dimer. Nature Communications, 2017, 8, 15171.	12.8	176
11	Synthesis and properties of long [n]cumulenes (nâ‰¥ 5). Chemical Society Reviews, 2014, 43, 3184-3203.	38.1	154
12	The surprising nonlinear optical properties of conjugated polyyne oligomers. Journal of Chemical Physics, 2004, 120, 6807-6810.	3.0	152
13	Coordination-Driven Self-Assembly:â€‰ Solids with Bidirectional Porosity. Journal of the American Chemical Society, 2002, 124, 7266-7267.	13.7	122
14	Pentacene Dimers as a Critical Tool for the Investigation of Intramolecular Singlet Fission. Chemistry - A European Journal, 2018, 24, 8245-8257.	3.3	120
15	Synthesis of extended polyynes: Toward carbyne. Comptes Rendus Chimie, 2009, 12, 341-358.	0.5	118
16	Polyyne Rotaxanes: Stabilization by Encapsulation. Journal of the American Chemical Society, 2016, 138, 1366-1376.	13.7	117
17	Molecular Structures of Asphaltenes Based on the Dissociation Reactions of Their Ions in Mass Spectrometry. Energy & Fuels, 2010, 24, 5548-5559.	5.1	115
18	Optical and transient photoconductive properties of pentacene and functionalized pentacene thin films: Dependence on film morphology. Journal of Applied Physics, 2005, 98, 033701.	2.5	114

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19	Density Functional Theory Investigation of the Contributions of Ï€âˆ'Ï€ Stacking and Hydrogen-Bonding Interactions to the Aggregation of Model Asphaltene Compounds. Energy & Fuels, 2012, 26, 2727-2735.	5.1	113
20	Solution-based intramolecular singlet fission in cross-conjugated pentacene dimers. Nanoscale, 2016, 8, 10113-10123.	5.6	108
21	Evidence for Charge-Transfer Mediation in the Primary Events of Singlet Fission in a Weakly Coupled Pentacene Dimer. CheM, 2018, 4, 1092-1111.	11.7	105
22	Picosecond Transient Photoconductivity in Functionalized Pentacene Molecular Crystals Probed by Terahertz Pulse Spectroscopy. Physical Review Letters, 2002, 89, 227403.	7.8	104
23	Synthesis, Structure, and Nonlinear Optical Properties of Diarylpolyynes. Organic Letters, 2005, 7, 51-54.	4.6	104
24	Formation of Archipelago Structures during Thermal Cracking Implicates a Chemical Mechanism for the Formation of Petroleum Asphaltenes. Energy & Fuels, 2011, 25, 2130-2136.	5.1	100
25	Methanofullerene Molecular Scaffolding: Towards C60-substituted poly(triacetylenes) and expanded radialenes, preparation of a C60-C70 hybrid derivative, and a novel macrocyclization reaction. Helvetica Chimica Acta, 1997, 80, 293-316.	1.6	97
26	Evidence for Solution-State Nonlinearity of sp-Carbon Chains Based on IR and Raman Spectroscopy: Violation of Mutual Exclusion. Journal of the American Chemical Society, 2009, 131, 4239-4244.	13.7	93
27	Synthesis of Polyyne Rotaxanes. Organic Letters, 2012, 14, 3424-3426.	4.6	93
28	Cumulene Rotaxanes: Stabilization and Study of [9]Cumulenes. Angewandte Chemie - International Edition, 2015, 54, 6645-6649.	13.8	91
29	Synthesis of Unsymmetrically Substituted 1,3-Butadiynes and 1,3,5-Hexatriynes via Alkylidene Carbenoid Rearrangements. Journal of Organic Chemistry, 2003, 68, 1339-1347.	3.2	90
30	Single-step preparation of rigid-rod, cationic, bimetallic, .sigma.-diyne complexes: L5M+C.tplbond.C(C6H4)C.tplbond.CM+L5.cntdot.2TfO- (M = iridium, rhodium). Journal of the American Chemical Society, 1992, 114, 4411-4412.	13.7	89
31	A new method for the synthesis of cyclopentenones via the tandem Michael addition-carbene insertion reaction of .beta.-ketoethynyl(phenyl)iodonium salts. Journal of the American Chemical Society, 1994, 116, 93-98.	13.7	87
32	Esters of 2-Iodoxybenzoic Acid:Â Hypervalent Iodine Oxidizing Reagents with a Pseudobenziodoxole Structure. Journal of Organic Chemistry, 2005, 70, 6484-6491.	3.2	87
33	Electronic Characteristics of Arylated Tetraethynylethenes:Â A Cooperative Computational and Electrochemical Investigation. Journal of the American Chemical Society, 1997, 119, 2069-2078.	13.7	84
34	Highly Functionalized Dimeric Tetraethynylethenes and Expanded Radialenes: Strong Evidence for Macrocyclic Cross-Conjugation. Chemistry - A European Journal, 2001, 7, 3263-3280.	3.3	84
35	Palladium-katalysierte Kreuzkupplungen zwischen sp- und sp2-hybridisierten Kohlenstoffatomen. Angewandte Chemie, 2003, 115, 1604-1606.	2.0	83
36	Isomerically Pure syn-Anthradithiophenes: Synthesis, Properties, and FET Performance. Organic Letters, 2012, 14, 3660-3663.	4.6	81

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37	IBX Amides: A New Family of Hypervalent Iodine Reagents. Angewandte Chemie - International Edition, 2003, 42, 2194-2196.	13.8	80
38	tertâ€Butylâ€Endâ€Capped Polyynes: Crystallographic Evidence of Reduced Bondâ€Length Alternation. Angewandte Chemie - International Edition, 2009, 48, 7915-7919.	13.8	80
39	Anisotropy of transient photoconductivity in functionalized pentacene single crystals. Applied Physics Letters, 2006, 89, 192113.	3.3	79
40	Odd [n]Cumulenes (n = 3, 5, 7, 9): Synthesis, Characterization, and Reactivity. Accounts of Chemical Research, 2017, 50, 1468-1479.	15.6	78
41	Alkyne Migration in Alkylidene Carbenoid Species: A New Method of Polyyne Synthesis. Chemistry - A European Journal, 2003, 9, 2542-2550.	3.3	77
42	Synthesis and Structure of Tetraarylcumulenes: Characterization of Bondâ€Length Alternation versus Molecule Length. Angewandte Chemie - International Edition, 2013, 52, 1817-1821.	13.8	77
43	Donor/Acceptor-Substituted Tetraethynylethenes: Systematic Assembly of Molecules for Use as Advanced Materials. Helvetica Chimica Acta, 1996, 79, 2249-2281.	1.6	74
44	Ultrafast optical Kerr effect measurements of third-order nonlinearities in cross-conjugatediso-polydiacetylene oligomers. Journal of Chemical Physics, 2002, 116, 3834-3840.	3.0	73
45	Migrating Alkynes in Vinylidene Carbenoids:Â An Unprecedented Route to Polyynes. Journal of the American Chemical Society, 2000, 122, 10736-10737.	13.7	69
46	One-Pot Formation and Derivatization of Di- and Triynes Based on the Fritschâ€'Buttenbergâ€'Wiechell Rearrangement. Journal of Organic Chemistry, 2007, 72, 9622-9629.	3.2	69
47	Reductive Aromatization/Dearomatization and Elimination Reactions to Access Conjugated Polycyclic Hydrocarbons, Heteroacenes, and Cumulenes. ChemPlusChem, 2017, 82, 967-1001.	2.8	69
48	Iterative Synthesis and Properties of Cross-Conjugatediso-Polydiacetylene Oligomers. Journal of the American Chemical Society, 1999, 121, 458-459.	13.7	68
49	Carbonâ€rich nanostructures: the conversion of acetylenes into materials. Journal of Physical Organic Chemistry, 2013, 26, 742-749.	1.9	68
50	Controlling the Chromaticity of Smallâ€Molecule Lightâ€Emitting Electrochemical Cells Based on TIPSâ€Pentacene. Advanced Functional Materials, 2015, 25, 5066-5074.	14.9	68
51	Carbon-carbon bond formation in reactions of PhIO.cntdot.HBF4-silyl enol ether adduct with alkenes or silyl enol ethers. Journal of Organic Chemistry, 1989, 54, 2605-2608.	3.2	66
52	The Fritschâ€“Buttenbergâ€“Wiechell rearrangement: modern applications for an old reaction. Chemical Communications, 2010, 46, 3235.	4.1	66
53	Varying the Interpentacene Electronic Coupling to Tune Singlet Fission. Journal of the American Chemical Society, 2019, 141, 6191-6203.	13.7	66
54	Iodosobenzene tetrafluoroborate, hexafluoroantimonate, and hexafluorophosphate: stable electrophilic hypervalent iodine reagents without nucleophilic ligands. Journal of Organic Chemistry, 1989, 54, 2609-2612.	3.2	65

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55	A Modular Synthetic Approach to Conjugated Pentacene Diâ€; Triâ€; and Tetramers. Angewandte Chemie - International Edition, 2010, 49, 6190-6194.	13.8	65
56	Exploring Electronically Polarized Pentacenes. Organic Letters, 2008, 10, 4163-4166.	4.6	61
57	Structural, Vibrational, and Electronic Characteristics of Enyne Macrocycles as a Function of Ring Strain. Journal of the American Chemical Society, 2000, 122, 6917-6928.	13.7	60
58	Preparation and Reductive Decomposition of 2-Iodoxybenzenesulfonic Acid. X-ray Crystal Structure of 1-Hydroxy-1H-1,2,3-benziodoxathiole 3,3-Dioxide. European Journal of Organic Chemistry, 2006, 2006, 4791-4795.	2.4	60
59	Comparing Laser Desorption/Laser Ionization Mass Spectra of Asphaltenes and Model Compounds. Energy & Fuels, 2010, 24, 3589-3594.	5.1	60
60	Davydov splitting and singlet fission in excitonically coupled pentacene dimers. Chemical Science, 2019, 10, 3854-3863.	7.4	60
61	Toward carbyne: Synthesis and stability of really long polyynes. Pure and Applied Chemistry, 2010, 82, 891-904.	1.9	59
62	A Series of Pyreneâ€Substituted Silicon Phthalocyanines as Nearâ€IR Sensitizers in Organic Ternary Solar Cells. Advanced Energy Materials, 2016, 6, 1502355.	19.5	59
63	Preparation of Rigid-Rod, Di- and Trimetallic, .sigma.-Acetylide Complexes of Iridium(III) and Rhodium(III) via Alkynyl(phenyl)iodonium Chemistry. Organometallics, 1994, 13, 3203-3208.	2.3	58
64	Preparation and structure of 2-iodoxybenzoate esters: soluble and stable periodinane oxidizing reagentsElectronic Supplementary Information (ESI) available: synthetic and characterization data for all new compounds; general procedures for the oxidation of alcohols with reagent 4c. See http://www.rsc.org/suppdata/cc/b3/b312961f/. Chemical Communications, 2004, , 106.	4.1	57
65	Synthesis of Heterocycles and Carbocycles by Electrophilic Cyclization of Alkynes. , 2005, , 51-99.		57
66	Functionalized Macrocyclic Ligands for Use in Supramolecular Chemistry. Journal of Organic Chemistry, 2002, 67, 1133-1140.	3.2	56
67	Using ligand exchange reactions to control the coordination environment of Pt(II) acetylide complexes: applications to conjugated metallacyclynes. Journal of Organometallic Chemistry, 2003, 683, 379-387.	1.8	56
68	Synthesis and Characterization of Expanded Radialenes, Bisradialenes, and Radiaannulenes. Angewandte Chemie - International Edition, 2007, 46, 9081-9085.	13.8	56
69	Expanded Radialenes: Modular Synthesis and Characterization of Cross-Conjugated Enyne Macrocycles. Angewandte Chemie - International Edition, 1999, 38, 1940-1943.	13.8	55
70	Synthesis and Electronic Properties of Conjugated Pentacene Dimers. Organic Letters, 2008, 10, 4779-4782.	4.6	55
71	(Dicyano)iodonium triflate- novel iodonium species and a versatile reagent for the preparation of iodonium salts via an iodonium transfer reaction with organostannanes. Tetrahedron Letters, 1992, 33, 1419-1422.	1.4	54
72	Secondary Bonding-Directed Self-Assembly of Amino Acid Derived Benziodazoles:Â Synthesis and Structure of Novel Hypervalent Iodine Macrocycles. Journal of the American Chemical Society, 2001, 123, 4095-4096.	13.7	54

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73	Two-Photon Absorption Properties of Two-Dimensional Ï€-Conjugated Chromophores: Combined Experimental and Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 105-117.	2.5	54
74	Carbyne: The Molecular Approach. Chemical Record, 2015, 15, 1060-1074.	5.8	54
75	Pentacene Appended to a TEMPO Stable Free Radical: The Effect of Magnetic Exchange Coupling on Photoexcited Pentacene. Journal of the American Chemical Society, 2015, 137, 857-863.	13.7	54
76	Tetraethynylethene Molecular Scaffolding. Liebigs Annalen, 1997, 1997, 649-661.	0.8	53
77	Singlet Fission for Photovoltaics with 130â€‰% Injection Efficiency. Angewandte Chemie - International Edition, 2018, 57, 10742-10747.	13.8	52
78	Synthesis, Structure, and Nonlinear Optical Properties of Cross-Conjugated Perphenylatediso-Polydiacetylenes. Chemistry - A European Journal, 2005, 11, 321-329.	3.3	51
79	Structure and chain polarization of long polyynes investigated with infrared and Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 1398-1410.	2.5	50
80	A new synthesis of alkynyl sulfones and single crystal x-ray structure of p-(tolylsulfonyl)ethyne. Journal of Organic Chemistry, 1993, 58, 5235-5237.	3.2	49
81	Synthesis and Solid-State Structure of Perfluorophenyl End-Capped Polyynes. Organic Letters, 2008, 10, 2163-2166.	4.6	49
82	Synthesis of Unsymmetrical Derivatives of Pentacene for Materials Applications. Accounts of Chemical Research, 2019, 52, 2056-2069.	15.6	48
83	Cross-Conjugated Oligo(enynes). Synlett, 2002, 2002, 1939-1953.	1.8	47
84	Iterative Synthesis and Characterization of Cross-Conjugated Iso-Polydiacetylenes. Journal of Organic Chemistry, 2002, 67, 336-344.	3.2	47
85	The single-molecule electrical conductance of a rotaxane-hexayne supramolecular assembly. Nanoscale, 2017, 9, 355-361.	5.6	47
86	Ï€-Conjugation and End Group Effects in Long Cumulenes: Raman Spectroscopy and DFT Calculations. Journal of Physical Chemistry C, 2014, 118, 26415-26425.	3.1	46
87	Tetraethynylethene molecular scaffolding: Nonlinear optical, redox, and amphiphilic properties of donor functionalized polytriacetylene and expanded radialenes. Advanced Materials, 1997, 9, 339-343.	21.0	45
88	Polyyne synthesis using carbene/carbenoid rearrangements. Chemical Record, 2006, 6, 169-182.	5.8	45
89	Study of Cross-Conjugatediso-Polytriacetylenes and Related Oligoenynes. Journal of Organic Chemistry, 2002, 67, 2805-2812.	3.2	44
90	The loss of endgroup effects in long pyridyl-endcapped oligoynes on the way to carbyne. Nature Chemistry, 2020, 12, 1143-1149.	13.6	44

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91	Synthesis of Naturally Occurring Acetylenes via an Alkylidene Carbenoid Rearrangement. Journal of Organic Chemistry, 2003, 68, 6810-6813.	3.2	43
92	A Simple, One-Step Procedure for the Formation of Chiral Metallamacrocycles. Angewandte Chemie - International Edition, 2004, 43, 5967-5971.	13.8	43
93	Synthesis and Chemistry of Polycyclic Aromatic Hydrocarbons with Curved Surfaces: Buckybowls. , 2006, , 529-565.		43
94	Reaction of phIOÂ·HBF4/silyl enol ether adduct with olefins as general approach to carbonâ€"carbon bond formation in AdE reactions using hypervalent iodine reagents. Tetrahedron Letters, 1988, 29, 3703-3704.	1.4	42
95	New Light on an Old Story:Â The Solid-State Transformation of Ammonium Cyanate into Urea. Journal of the American Chemical Society, 1998, 120, 13274-13275.	13.7	42
96	Conjugated Oligomers and Polymers Based on Anthracene, Tetracene, Pentacene, Naphthodithiophene, and Anthradithiophene Building Blocks. Australian Journal of Chemistry, 2011, 64, 919.	0.9	42
97	3D-RISM-KH molecular theory of solvation and density functional theory investigation of the role of water in the aggregation of model asphaltenes. Physical Chemistry Chemical Physics, 2012, 14, 3922.	2.8	41
98	Iodosyl trifluoromethanesulfonate - an efficient reagent for the single step preparation of diaryl iodonium triflate salts. Tetrahedron Letters, 1991, 32, 7497-7498.	1.4	40
99	Highly effective PQQ inhibition by alkynyl and aryl mono- and diiodonium salts. Journal of the American Chemical Society, 1993, 115, 11702-11704.	13.7	40
100	Two-photon absorption in two-dimensional conjugated quadrupolar chromophores. Optics Letters, 2006, 31, 3315.	3.3	38
101	[N]Phenylenes: a Novel Class of Cyclohexatrienoid Hydrocarbon. , 2006, , 140-197.		37
102	Pentacene Oligomers and Polymers:â€‰ Functionalization of Pentacene to Afford Mono-, Di-, Tri-, and Polymeric Materials. Organic Letters, 2007, 9, 4583-4586.	4.6	37
103	Pentaceneâ€Based Polycyclic Aromatic Hydrocarbon Dyads with Cofacial Solidâ€State Ï€â€Stacking. Chemistry - A European Journal, 2009, 15, 12580-12584.	3.3	37
104	Preparation of bis(heteroaryl)iodonium salts via an iodonium transfer reaction between di(cyano)iodonium triflate and organostannes. Journal of Heterocyclic Chemistry, 1992, 29, 815-818.	2.6	36
105	Two-dimensionally conjugated molecules: The importance of low molecular symmetry for large third-order nonlinear optical effects. Applied Physics Letters, 1998, 73, 2396-2398.	3.3	36
106	Rigid, Cross-Conjugated Macrocycles:â€‰ A Cyclic Alternative to 4,4â€˜-Bipyridines in Supramolecular Chemistry. Organic Letters, 2001, 3, 1045-1048.	4.6	36
107	Functionalized Macrocyclic Ligands:â€‰ Big Building Blocks for Metal Coordination. Organometallics, 2003, 22, 1353-1355.	2.3	36
108	A One-Pot Synthesis and Functionalization of Polyynes. Organic Letters, 2006, 8, 689-692.	4.6	36

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109	Chiral and Achiral Chargeâ€Transfer Chromophores with a Dendraleneâ€Type Backbone by Electronically Controlled Cycloaddition/Cycloreversion Cascades. European Journal of Organic Chemistry, 2010, 2010, 2487-2503.	2.4	36
110	Elucidation of structural information achievable for asphaltenes via collision-activated dissociation of their molecular ions in MSn experiments: A model compound study. Fuel, 2014, 133, 106-114.	6.4	36
111	Polyamide-imide polymer thin films for integrated optics. Thin Solid Films, 2004, 458, 233-236.	1.8	35
112	Towards the Synthesis of Tetraethynylallene. Synthesis, 1996, 1996, 537-550.	2.3	34
113	Naturally occurring and synthetic polyyne glycosides. Canadian Journal of Chemistry, 2009, 87, 1565-1582.	1.1	34
114	Chiral Propargyl Alcohols via the Enantioselective Addition of Terminal Di- and Triynes to Aldehydes. Journal of Organic Chemistry, 2011, 76, 6574-6583.	3.2	34
115	Effect of Chemical Structure on the Cracking and Coking of Archipelago Model Compounds Representative of Asphaltenes. Energy & Fuels, 2012, 26, 1828-1843.	5.1	34
116	Bis(phenyliodonium) diyne triflates PhIC.tplbond.C(p-C6H4)nC.tplbond.CIPh.cntdot.20Tf and PhIC.tplbond.C(CH2)nC.tplbond.CIPh.cntdot.20Tf: preparation, characterization, and reaction with triphenylphosphine. Journal of Organic Chemistry, 1992, 57, 1861-1864.	3.2	33
117	Mechanistic Aspects of Alkyne Migration in Alkylidene Carbenoid Rearrangements. Organic Letters, 2009, 11, 519-522.	4.6	33
118	Synthesis of radiaannulene oligomers to model the elusive carbon allotrope 6,6,12-graphyne. Nature Communications, 2019, 10, 3714.	12.8	33
119	Panchromatic ternary/quaternary polymer/fullerene BHJ solar cells based on novel silicon naphthalocyanine and silicon phthalocyanine dye sensitizers. Journal of Materials Chemistry A, 2017, 5, 2550-2562.	10.3	32
120	Pentacenes: A Molecular Ruler for Singlet Fission. Trends in Chemistry, 2019, 1, 11-21.	8.5	32
121	Deciphering the Role of Impurities in Methylammonium Iodide and Their Impact on the Performance of Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600593.	3.7	31
122	Determination of Hansen Solubility Parameters of Asphaltene Model Compounds. Energy & Fuels, 2018, 32, 11296-11303.	5.1	31
123	Tris(biphenyl-4-yl)silyl-Endcapped Polyynes. European Journal of Organic Chemistry, 2007, 2007, 1001-1006.	2.4	30
124	Absolute Raman intensity measurements and determination of the vibrational second hyperpolarizability of adamantyl endcapped polyynes. Journal of Raman Spectroscopy, 2012, 43, 1293-1298.	2.5	30
125	Preparation of bis-cyclopentene ring systems via reaction of bis[phenyl(iodonium)] diyne triflates with soft nucleophiles. Tetrahedron Letters, 1994, 35, 23-26.	1.4	29
126	Synthesis and characterization of cross-conjugated polyenynes. Chemical Communications, 2000, , 77-78.	4.1	29

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127	Regioselective Trapping of Terminal Di-, Tri-, and Tetraynes with Benzyl Azide. Organic Letters, 2006, 8, 6035-6038.	4.6	29
128	Carbon disulfide reagent allows the characterization of nonpolar analytes by atmospheric pressure chemical ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 1924-1928.	1.5	29
129	Synthesis and Properties of Isomerically Pure Anthrabisbenzothiophenes. Organic Letters, 2012, 14, 62-65.	4.6	29
130	Double Bonds? Studies on the Barrier to Rotation about the Cumulenic C=C Bonds of Tetraaryl[n]cumulenes (n=3, 5, 7, 9). Angewandte Chemie - International Edition, 2018, 57, 8321-8325.	13.8	29
131	Iodosobenzene tetrafluoroborate: First example of a stable electrophilic hypervalent iodine reagent without nucleophilic ligands. Tetrahedron Letters, 1988, 29, 3717-3720.	1.4	28
132	Cross-Conjugated Chromophores:â€‰ Synthesis ofiso-Polydiacetylenes with Donor/Acceptor Substitutionâ€. Organic Letters, 2000, 2, 3607-3610.	4.6	28
133	Modification of the Fritschâ€“Buttenbergâ€“Wiechell rearrangement: a facile route to unsymmetrical butadiynes. Tetrahedron Letters, 2001, 42, 8575-8578.	1.4	28
134	Reductive Bergman-Type Cyclizations of Cross-Conjugated Enediynes to Fulvene and Fulvalene Anions:Â The Role of the Substituent. Journal of the American Chemical Society, 2006, 128, 4703-4709.	13.7	28
135	Synthesis of soluble oligo- and polymeric pentacene-based materials. Tetrahedron, 2008, 64, 11449-11461.	1.9	28
136	Nonlinear Optical Properties of Polyynes: An Experimental Prediction for Carbyne. Journal of Physical Chemistry C, 2016, 120, 11131-11139.	3.1	28
137	Optical gap and fundamental gap of oligoynes and carbyne. Nature Communications, 2020, 11, 4797.	12.8	28
138	Deciphering structure and aggregation in asphaltenes: hypothesis-driven design and development of synthetic model compounds. Chemical Society Reviews, 2021, 50, 9202-9239.	38.1	28
139	Structural and Electronic Characteristics of Thienyl(aryl)iodonium Triflatesâ€. Journal of Organic Chemistry, 2002, 67, 2798-2804.	3.2	27
140	Radiaannulenes: synthesis, electrochemistry, and solid-state structure. Chemical Communications, 2009, , 3038.	4.1	27
141	Oligomers and Polymers Based on Pentacene Building Blocks. Materials, 2010, 3, 2772-2800.	2.9	27
142	Bent polyynes: ring geometry studied by Raman and IR spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 95-101.	2.5	27
143	Aggregation of asphaltene model compounds using a porphyrin tethered to a carboxylic acid. Organic and Biomolecular Chemistry, 2015, 13, 6984-6991.	2.8	27
144	Unexpected Michael Additions on the Way to 2.3,8.9â€Dibenzanthanthrenes with Interesting Structural Properties. Chemistry - A European Journal, 2016, 22, 9097-9101.	3.3	27

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145	1,1,2,2-Tetraethynylethanes: Synthons for Tetraethynylethenes and Modules for Acetylenic Molecular Scaffolding. Helvetica Chimica Acta, 1996, 79, 634-645.	1.6	26
146	Pentacene-Based Dendrimers: Synthesis and Thin Film Photoconductivity Measurements of Branched Pentacene Oligomers. Journal of Organic Chemistry, 2009, 74, 5017-5024.	3.2	26
147	Unexpected Formation of a [4]Radialene and Dendralenes by Addition of Tetracyanoethylene to a Tetraaryl[5]cumulene. Angewandte Chemie - International Edition, 2014, 53, 3743-3747.	13.8	26
148	Chromophore Multiplication To Enable Exciton Delocalization and Triplet Diffusion Following Singlet Fission in Tetrameric Pentacene. Angewandte Chemie - International Edition, 2019, 58, 15263-15267.	13.8	26
149	Chiral cis-Platinum Acetylide Complexes via Diphosphine Ligand Exchange: Effect of the Ligand. Organometallics, 2008, 27, 6321-6325.	2.3	25
150	Adamantylâ€endcapped polyynes. Journal of Physical Organic Chemistry, 2012, 25, 69-76.	1.9	25
151	An unsymmetrical pentacene derivative with ambipolar behavior in organic thin-film transistors. Chemical Communications, 2013, 49, 6725.	4.1	25
152	Two-Photon Absorption in Pentacene Dimers: The Importance of the Spacer Using Upconversion as an Indirect Route to Singlet Fission. Journal of the American Chemical Society, 2017, 139, 14017-14020.	13.7	25
153	Influence of the heavy-atom effect on singlet fission: a study of platinum-bridged pentacene dimers. Chemical Science, 2019, 10, 11130-11140.	7.4	25
154	(Dicyanoiodo)benzene - a stable tricoordinate iodine(III) compound with three carbon ligands. Tetrahedron Letters, 1991, 32, 733-734.	1.4	24
155	Preparation, Structure, and Unexpected Chemistry of Phosphoranyl-Derived Benziodoxoles. Journal of the American Chemical Society, 2002, 124, 11614-11615.	13.7	24
156	Expanded radialenes: Modular synthesis and properties of cross-conjugated enyne macrocycles. Pure and Applied Chemistry, 2008, 80, 621-637.	1.9	24
157	Addition of Terminal Acetylides to Cï£¾O and Cï£¾N Electrophiles. , 2005, , 101-138.		23
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