

Dolores Perez

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Efficient Palladium-Catalyzed Cyclotrimerization of Arynes: Synthesis of Triphenylenes. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2659-2661.	13.8	252
2	Aryne Cycloaddition Reactions in the Synthesis of Large Polycyclic Aromatic Compounds. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5981-6013.	2.4	245
3	Palladium-Catalyzed Cocyclization of Arynes with Alkynes: Selective Synthesis of Phenanthrenes and Naphthalenes. <i>Journal of the American Chemical Society</i> , 1999, 121, 5827-5828.	13.7	214
4	Insertion of Arynes into C-C Bonds. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3579-3581.	13.8	212
5	On-surface generation and imaging of arynes by atomic force microscopy. <i>Nature Chemistry</i> , 2015, 7, 623-628.	13.6	176
6	Synthesis of Hexabenzotriphenylene and Other Strained Polycyclic Aromatic Hydrocarbons by Palladium-Catalyzed Cyclotrimerization of Arynes. <i>Organic Letters</i> , 1999, 1, 1555-1557.	4.6	167
7	Decacene: On-Surface Generation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11945-11948.	13.8	146
8	Selective Palladium-Catalyzed Cocyclotrimerization of Arynes with Dimethyl Acetylenedicarboxylate: A Versatile Method for the Synthesis of Polycyclic Aromatic Hydrocarbons. <i>Journal of Organic Chemistry</i> , 2000, 65, 6944-6950.	3.2	141
9	Selected strategies for the synthesis of triphenylenes. <i>Chemical Society Reviews</i> , 2004, 33, 274-283.	38.1	132
10	Kinetic Control in the Palladium-Catalyzed Synthesis of C ₂ -Symmetric Hexabenzotriphenylene. A Conformational Study. <i>Organic Letters</i> , 2000, 2, 1629-1632.	4.6	122
11	Synthesis of Nanographenes, Starphenes, and Sterically Congested Polyarenes by Aryne Cyclotrimerization. <i>Accounts of Chemical Research</i> , 2019, 52, 2472-2481.	15.6	109
12	Characterizing aliphatic moieties in hydrocarbons with atomic force microscopy. <i>Chemical Science</i> , 2017, 8, 2315-2320.	7.4	102
13	Asymmetric Catalysis in the [2+2+2] Cycloaddition of Arynes and Alkynes: Enantioselective Synthesis of a Pentahelicene. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2466-2474.	4.3	101
14	From Perylene to a 22-Ring Aromatic Hydrocarbon in One Pot. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9004-9006.	13.8	94
15	Dodecacene Generated on Surface: Reopening of the Energy Gap. <i>ACS Nano</i> , 2020, 14, 1011-1017.	14.6	93
16	Dibenzo[a,o]phenanthro[3,4-s]pycene, a Configurationally Stable Double Helicene: Synthesis and Determination of Its Conformation by NMR and GIAO Calculations. <i>Organic Letters</i> , 2003, 5, 1863-1866.	4.6	89
17	Synthesis of Extended Triphenylenes by Palladium-Catalyzed [2+2+2] Cycloaddition of Triphenylynes. <i>Chemistry - A European Journal</i> , 2006, 12, 5677-5684.	3.3	73
18	[16]Cloverphene: a Clover-Shaped Condensed Nanographene with Sixteen Fused Benzene Rings. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 173-177.	13.8	71

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19	Aryne Insertion into σ -C-C Bonds. <i>Organic Letters</i> , 2012, 14, 1363-1365.	4.6	61
20	Tetracene Formation by On-Surface Reduction. <i>ACS Nano</i> , 2016, 10, 4538-4542.	14.6	60
21	Palladium-Catalyzed [2 + 2 + 2] Cycloadditions of 3,4-Didehydrophenanthrene and 1,2-Didehydrotriphenylene. <i>Journal of Organic Chemistry</i> , 2008, 73, 7996-8000.	3.2	55
22	Palladium-Catalyzed Cycloaddition Reactions of Arynes. <i>Topics in Organometallic Chemistry</i> , 0, , 109-146.	0.7	54
23	Imaging the electronic structure of on-surface generated hexacene. <i>Chemical Communications</i> , 2017, 53, 1583-1586.	4.1	54
24	Decacene: On-Surface Generation. <i>Angewandte Chemie</i> , 2017, 129, 12107-12110.	2.0	54
25	Revisiting Kekulene: Synthesis and Single-Molecule Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 15488-15493.	13.7	54
26	Highly Selective Insertion of Arynes into a $C(sp^2)-O(sp^3)$ σ Bond. <i>Organic Letters</i> , 2011, 13, 960-963.	4.6	53
27	Exploring a Route to Cyclic Acenes by On-Surface Synthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9038-9042.	13.8	52
28	An Efficient Procedure for the Synthesis of ortho-Trialkylsilylaryl Triflates: Easy Access to Precursors of Functionalized Arynes. <i>Synthesis</i> , 2002, 2002, 1454-1458.	2.3	49
29	Tris(benzocyclobutadieno)triphenylene and Its Lower Biphenylene Homologues by Palladium-Catalyzed Cyclizations of 2,3-Didehydrobiphenylene. <i>Organic Letters</i> , 2004, 6, 3557-3560.	4.6	48
30	Metal-Catalyzed Cotrimerization of Arynes and Alkenes. <i>Organic Letters</i> , 2006, 8, 3347-3349.	4.6	48
31	First Partially Intramolecular Palladium-Catalyzed [2+2+2] Cycloaddition of Benzyne: Application to the Synthesis of Benzo[b]fluorenones. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 1238-1243.	2.4	46
32	Generation and Reactivity of 1,2-Cyclohexadiene under Mild Reaction Conditions. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 5519-5524.	2.4	44
33	Studying an antiaromatic polycyclic hydrocarbon adsorbed on different surfaces. <i>Nature Communications</i> , 2018, 9, 1198.	12.8	42
34	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. <i>ACS Nano</i> , 2018, 12, 8506-8511.	14.6	42
35	Stereoselective Tandem Cascade Furan Cycloadditions. <i>Journal of Organic Chemistry</i> , 2013, 78, 12637-12649.	3.2	40
36	Generation of cyclohexyne and its Diels-Alder reaction with α -pyrones. <i>Tetrahedron Letters</i> , 1998, 39, 3039-3040.	1.4	39

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37	Building a 22-ring nanographene by combining in-solution and on-surface syntheses. <i>Chemical Communications</i> , 2018, 54, 10256-10259.	4.1	39
38	Aryne-Mediated Synthesis of Heterocycles. <i>Heterocycles</i> , 2007, 74, 89.	0.7	38
39	A new approach to the synthesis of antitumor benzophenanthridine alkaloids. Formal synthesis of nitidine. <i>Journal of Organic Chemistry</i> , 1992, 57, 5911-5917.	3.2	37
40	A C ₆₀ -aryne building block: synthesis of a hybrid all-carbon nanostructure. <i>Chemical Communications</i> , 2016, 52, 6677-6680.	4.1	37
41	Synthesis of Antitumor Lycorines by Intramolecular Diels-Alder Reaction. <i>Journal of Organic Chemistry</i> , 1996, 61, 1650-1654.	3.2	36
42	A Combined Zirconocene Benzyne-Palladium Cross-Coupling Route to Substituted Biphenyls and Terphenyls. <i>Journal of the American Chemical Society</i> , 1999, 121, 9469-9470.	13.7	36
43	Cyclotrimerization reactions of arynes and strained cycloalkynes. <i>Chemical Record</i> , 2007, 7, 326-333.	5.8	36
44	Large phenyl-substituted acenes by cycloaddition reactions of the 2,6-naphthodiyne synthon. <i>Chemical Communications</i> , 2015, 51, 5418-5420.	4.1	31
45	Generation and Characterization of a <i>meta</i> -Aryne on Cu and NaCl Surfaces. <i>ACS Nano</i> , 2017, 11, 10768-10773.	14.6	31
46	Microwave-induced covalent functionalization of few-layer graphene with arynes under solvent-free conditions. <i>Chemical Communications</i> , 2018, 54, 2086-2089.	4.1	29
47	Atomic Force Microscopy Identifying Fuel Pyrolysis Products and Directing the Synthesis of Analytical Standards. <i>Journal of the American Chemical Society</i> , 2018, 140, 8156-8161.	13.7	27
48	[4+2] Cycloadditions between 2-pyrones and benzyne. Application to the synthesis of binaphthyls. <i>Tetrahedron Letters</i> , 1997, 38, 5375-5378.	1.4	24
49	Synthesis of lycorines by intramolecular aryne cycloadditions. <i>Journal of Organic Chemistry</i> , 1995, 60, 6318-6326.	3.2	22
50	Exploring a Route to Cyclic Acenes by On-Surface Synthesis. <i>Angewandte Chemie</i> , 2019, 131, 9136-9140.	2.0	22
51	1,7-Naphthodiyne: a new platform for the synthesis of novel, sterically congested PAHs. <i>Chemical Communications</i> , 2016, 52, 5534-5537.	4.1	21
52	Aryne-mediated syntheses of structurally related acene derivatives. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3386.	2.8	20
53	One-pot synthesis of sterically congested large aromatic hydrocarbons via 1,4-diphenyl-2,3-triphenyl-yne. <i>Chemical Communications</i> , 2013, 49, 6274.	4.1	19
54	Synthesis and reactivity of new strained cyclic allene and alkyne precursors. <i>Pure and Applied Chemistry</i> , 2006, 78, 451-455.	1.9	18

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55	Synthesis and reactivity of a trigonal porous nanographene on a gold surface. <i>Chemical Science</i> , 2019, 10, 10143-10148.	7.4	18
56	Straightforward Synthesis of Novel Acene-Based Aryne Precursors. <i>Synlett</i> , 2015, 26, 1633-1637.	1.8	16
57	Palladium-catalyzed Trimerization of Strained Cycloalkynes: Synthesis of Decacyclene. <i>Synlett</i> , 2002, 2002, 0486-0488.	1.8	15
58	Development of Fluorescent Probes that Target Serotonin 5-HT _{2B} Receptors. <i>Scientific Reports</i> , 2017, 7, 10765.	3.3	15
59	Intramolecular Coupling of Terminal Alkynes by Atom Manipulation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22989-22993.	13.8	15
60	A new approach to the synthesis of antitumoralkaloids with the lycorane skeleton. <i>Tetrahedron Letters</i> , 1992, 33, 2407-2408.	1.4	14
61	[19]Dendriphene: A 19-Å Ring Dendritic Nanographene. <i>Chemistry - A European Journal</i> , 2018, 24, 17697-17700.	3.3	14
62	A new intermolecular benzyne cycloaddition approach to benzophenanthridines. <i>Tetrahedron Letters</i> , 1990, 31, 143-144.	1.4	11
63	A New Convergent Approach to the Polycyclic Framework of Dynemicin A. <i>Journal of Organic Chemistry</i> , 1997, 62, 3028-3029.	3.2	11
64	Aryl Halide C–C Coupling on Ge(001):H Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27478-27482.	3.1	11
65	Molecular Self-Assembly Driven by On-Surface Reduction: Anthracene and Tetracene on Au(111). <i>Journal of Physical Chemistry C</i> , 2017, 121, 20353-20358.	3.1	11
66	Site-selective reversible Diels–Alder reaction between a biphenylene-based polyarene and a semiconductor surface. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11037-11046.	2.8	11
67	Cobalt-Mediated [2+2+2] Cycloadditions of Alkynes to Benzo[<i>b</i>]furans and Benzo[<i>b</i>]thiophenes: A Potential Route toward Morphanoids. <i>Synthesis</i> , 2018, 50, 1053-1089.	2.3	10
68	Structural characterization and physical properties of new tetrabenzopentaphene mesogens. <i>Journal of Materials Chemistry</i> , 2009, 19, 4725.	6.7	9
69	An on-surface Diels–Alder reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26346-26350.	13.8	9
70	Palladium-catalyzed cocyclotrimerization of arynes with a pyramidalized alkene. <i>Chemical Communications</i> , 2018, 54, 5996-5999.	4.1	8
71	2,6,10-Triphenylenotriyne: a star-shaped trisaryne. <i>Chemical Communications</i> , 2020, 56, 12853-12856.	4.1	8
72	Controlled Fragmentation of Single Molecules with Atomic Force Microscopy by Employing Doubly Charged States. <i>Physical Review Letters</i> , 2018, 121, 226101.	7.8	7

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73	Hexacene generated on passivated silicon. <i>Nanoscale</i> , 2018, 10, 12582-12587.	5.6	7
74	Effect of Central π -System in Silylated-Tetraynes on σ -Bond Metathesis on Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6230-6235.	3.1	6
75	Efficient Palladium-Catalyzed Cyclotrimerization of Arynes: Synthesis of Triphenylenes. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2659-2661.	13.8	6
76	Synthesis of Heterocyclic Antitumour Compounds Using Alkyne and Aryne Cycloadditions. , 1999, , 307-314.		5
77	From starphenes to non-benzenoid linear conjugated polymers by substrate templating. <i>Nanoscale Advances</i> , 2021, 3, 2351-2358.	4.6	4
78	New Methods for Synthesis of Amaryllidaceae Alkaloids. <i>Planta Medica</i> , 1990, 56, 516-517.	1.3	2
79	Addressing Long-Standing Chemical Challenges by AFM with Functionalized Tips. <i>Advances in Atom and Single Molecule Machines</i> , 2018, , 209-227.	0.0	2
80	Challenges in the synthesis of corannulene-based non-planar nanographenes on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10845-10851.	2.8	2
81	An on-surface Diels-Alder reaction. <i>Angewandte Chemie</i> , 2021, 133, 26550.	2.0	2
82	Straightforward Synthesis of a Vicinal Double-Bridgehead Iodo Trimethylsilyl Octacycle: Unprecedented Lack of Reactivity of the Silyl Group in the Presence of Fluoride Anions. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1594-1603.	2.4	1
83	Toward 2-Thiophyne: Ketocarbene versus Hetaryne Intermediates from 2-(Trimethylsilyl)thiophen-3-yl Triflate. <i>Organic Letters</i> , 2021, 23, 7376-7380.	4.6	1
84	Dibenzo[a,o]phenanthro[3,4-s]pycene, a Configurationally Stable Double Helicene: Synthesis and Determination of Its Conformation by NMR and GIAO Calculations.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
85	Selected Strategies for the Synthesis of Triphenylenes. <i>ChemInform</i> , 2004, 35, no.	0.0	0
86	Intramolecular Coupling of Terminal Alkynes by Atom Manipulation. <i>Angewandte Chemie</i> , 2020, 132, 23189-23193.	2.0	0
87	Acid-Promoted Aromatization of Perylene-Based Endoxides. <i>Heterocycles</i> , 2014, 88, 1625.	0.7	0