

# Robert A Pascal Jr

## List of Publications by Year in descending order

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64  
papers

3,159  
citations

236925

25  
h-index

149698

56  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer Electroluminescent Devices and Photoinduced Hydrogen Production from an Ionic Iridium(III) Complex. <i>Chemistry of Materials</i> , 2005, 17, 5712-5719.	6.7	829
2	Twisted Acenes. <i>Chemical Reviews</i> , 2006, 106, 4809-4819.	47.7	381
3	Many Density Functional Theory Approaches Fail To Give Reliable Large Hydrocarbon Isomer Energy Differences. <i>Organic Letters</i> , 2006, 8, 3635-3638.	4.6	304
4	Octaphenylnaphthalene and Decaphenylanthracene. <i>Journal of the American Chemical Society</i> , 1996, 118, 741-745.	13.7	114
5	Sulfenate Intermediates in the Sulfoxide Glycosylation Reaction. <i>Journal of the American Chemical Society</i> , 1998, 120, 5961-5969.	13.7	89
6	The Structure of Hexabenzotriphenylene and the Problem of Overcrowded $\pi$ -Polycyclic Aromatic Compounds. <i>Journal of the American Chemical Society</i> , 1999, 121, 727-733.	13.7	88
7	Synthesis and structure of longitudinally twisted polycyclic aromatic hydrocarbons. <i>Journal of the American Chemical Society</i> , 1987, 109, 4660-4665.	13.7	85
8	Synthesis, Structure, and Resolution of Exceptionally Twisted Pentacenes. <i>Journal of the American Chemical Society</i> , 2006, 128, 17043-17050.	13.7	67
9	Synthesis of a strained, air-sensitive, polycyclic aromatic hydrocarbon by means of a new 1,4-benzadiyne equivalent. <i>Tetrahedron</i> , 2002, 58, 8875-8882.	1.9	66
10	Synthesis of Polyphenylene Dendrimers Related to $\pi$ -Cubic Graphite. <i>Journal of the American Chemical Society</i> , 2004, 126, 5798-5805.	13.7	63
11	Configurationally Stable Longitudinally Twisted Polycyclic Aromatic Compounds. <i>Journal of the American Chemical Society</i> , 2008, 130, 16435-16441.	13.7	57
12	Small, strained cyclophanes with methine hydrogens projected toward the centers of aromatic rings. <i>Journal of the American Chemical Society</i> , 1989, 111, 3007-3010.	13.7	56
13	$\pi$ -Cyclophanes containing second-row elements poised above aromatic rings. <i>Journal of the American Chemical Society</i> , 1991, 113, 2672-2676.	13.7	55
14	Octaphenylbiphenylene and Dodecaphenyltritycene. <i>Journal of the American Chemical Society</i> , 2002, 124, 8035-8041.	13.7	50
15	Dodecaphenyltetracene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2831-2833.	13.8	45
16	Decacyclene: a molecular propeller with helical crystals. <i>Chemistry of Materials</i> , 1993, 5, 1358-1361.	6.7	43
17	Exceptional Steric Congestion in an $\pi$ - $\pi$ -Bis(hydrosilane). <i>Journal of the American Chemical Society</i> , 2013, 135, 13235-13237.	13.7	42
18	Polyphenylbiphenyls and Polyphenylfluorenes. <i>Journal of the American Chemical Society</i> , 1998, 120, 6000-6006.	13.7	39

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19	The Albatrossenes: Large, Cleft-Containing, Polyphenyl Polycyclic Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 1997, 119, 7291-7302.	13.7	38
20	Synthesis and structure of an in-phosphaphane: enforced interaction of a phosphine and an aromatic ring. <i>Journal of the American Chemical Society</i> , 1990, 112, 6406-6407.	13.7	37
21	A Concise Set of Large, Symmetric Molecules for Evaluation of Modern Computational Methods. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9040-9048.	2.5	36
22	Synthesis, molecular structure, and properties of in-phosphaphanes with substituted basal aromatic rings. <i>Journal of Organic Chemistry</i> , 1993, 58, 3502-3506.	3.2	34
23	in-and-out-Cyclophanes Bearing Non-Hydrogen Bridgehead Substituents. <i>Journal of Organic Chemistry</i> , 1999, 64, 5626-5633.	3.2	33
24	A comment on the structure and proton NMR spectrum of 2,8,17-trithia[45,12][9]metacyclophane. <i>Journal of Organic Chemistry</i> , 1987, 52, 4616-4617.	3.2	28
25	Tribenzodecacyclene and Hexabenzodecacyclene. <i>Journal of Organic Chemistry</i> , 2015, 80, 4824-4827.	3.2	27
26	Sterically Congested in-Methylcyclophanes. <i>Journal of the American Chemical Society</i> , 2005, 127, 11246-11247.	13.7	26
27	Perchlorotriphenylene. <i>Journal of the American Chemical Society</i> , 1994, 116, 5983-5984.	13.7	25
28	Giant Cyclophanes Built from Polyphenyl Aromatic Substructures. <i>Journal of Organic Chemistry</i> , 2000, 65, 7711-7717.	3.2	25
29	The Hairpin Furans: Easily Prepared Hybrids of Helicenes and Twisted Acenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13957-13960.	13.8	25
30	An in-Fluorosilaphane: The Largest in-Functional Group Is a Uniquely Encapsulated Fluorine Atom. <i>Journal of the American Chemical Society</i> , 1998, 120, 6421-6422.	13.7	24
31	Interconversion and Reactions of in- and out-Isomers of a Triarylphosphine-Containing Cyclophane. <i>Journal of the American Chemical Society</i> , 1999, 121, 12082-12087.	13.7	23
32	An Exceptionally Close, Non-Bonded Hydrogen-Hydrogen Contact with Strong Through-Space Spin-Spin Coupling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2244-2247.	13.8	20
33	Synthesis of an Extremely Crowded Naphthalene via a Stable Norbornadienone. <i>Journal of the American Chemical Society</i> , 2001, 123, 10919-10926.	13.7	18
34	Dodecaphenyltetracene. <i>Angewandte Chemie</i> , 2019, 131, 2857-2859.	2.0	17
35	The Carbazole Connection: Unusual Products from the Diazotization of Anthranilic Acids. <i>Journal of Organic Chemistry</i> , 1996, 61, 6748-6750.	3.2	16
36	A Congested in,in-Diphosphine. <i>Organic Letters</i> , 2013, 15, 2179-2181.	4.6	16

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37	The reliability and utility of high reported specific rotations: reports and predictions of molecules with extremely high specific rotations, and high specific rotations suggest revision of the structures of huperzines E <sup>2</sup> and F <sup>2</sup> . <i>Tetrahedron</i> , 2013, 69, 6108-6115.	1.9	16
38	Conformational subtlety in large polyphenylene molecules. <i>Tetrahedron</i> , 2001, 57, 3549-3555.	1.9	15
39	Conformational reactions of D <sub>2</sub> -symmetric twisted acenes. <i>Tetrahedron</i> , 2008, 64, 8630-8637.	1.9	15
40	Ideal Molecular Conformation versus Crystal Site Symmetry. <i>Crystal Growth and Design</i> , 2012, 12, 4367-4376.	3.0	14
41	Experimental and computational studies of molecules with close, non-bonded hydrogen-hydrogen contacts: common computational methods grossly overestimate some through-space <sup>TM</sup> NMR scalar coupling constants. <i>Tetrahedron</i> , 2014, 70, 7518-7526.	1.9	13
42	Generation of an extremely bent pyrene system using kinetic stabilization. <i>Canadian Journal of Chemistry</i> , 2017, 95, 460-481.	1.1	12
43	An <i>in</i> - <i>in</i> -Triphenylaminophane. <i>Organic Letters</i> , 2012, 14, 3427-3429.	4.6	11
44	Sterically congested macrobicycles with heteroatomic bridgehead functionality. <i>Tetrahedron</i> , 2013, 69, 10316-10321.	1.9	10
45	Hairpin Furans and Giant Biaryls. <i>Journal of Organic Chemistry</i> , 2016, 81, 3838-3847.	3.2	10
46	Highly luminescent, polyaryl mesobenzanthrones. <i>Tetrahedron</i> , 2011, 67, 7211-7216.	1.9	9
47	Helical mesobenzanthrones: a class of highly luminescent helicenes. <i>Tetrahedron</i> , 2015, 71, 1694-1699.	1.9	9
48	The structure and racemization of 1,2-bis(pentaphenylphenyl)benzene. <i>Tetrahedron</i> , 2019, 75, 2778-2784.	1.9	9
49	Synthesis and Structures of Polyphenylphenanthrenes. <i>Chemistry - A European Journal</i> , 2020, 26, 8458-8464.	3.3	8
50	Cyclophanes with Sharp Corners: Synthesis of Macrocycles Containing One or Two 1,5,2,4,6,8-Dithiatetrazocine Rings. <i>Inorganic Chemistry</i> , 1996, 35, 2866-2871.	4.0	7
51	Synthesis and stereochemistry of ortho-methylated octaphenyl naphthalenes. <i>Chirality</i> , 1998, 10, 154-158.	2.6	7
52	Encapsulation of non-hydrogen atoms by <i>in</i> , <i>in</i> -bis(triarylelement)-containing cyclophanes. <i>Tetrahedron</i> , 2017, 73, 455-460.	1.9	7
53	Unidirectional coherent energy transport via conjugated oligo( <i>p</i> -phenylene) chains. <i>Journal of Chemical Physics</i> , 2021, 154, 134304.	3.0	7
54	Computational and experimental studies of the conformational reactions of 1,3,5-tris(pentaphenylphenyl)benzene. <i>Tetrahedron</i> , 2007, 63, 11902-11910.	1.9	6

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55	Multiple Isomers of a Small, Strained Phosphaphane. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5706-5710.	2.4	5
56	Chiral Polyaryl Cyclophanes. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4194-4200.	2.4	4
57	The Pursuit of Perphenylterphenyls. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	4
58	<i>in, in</i> -Cyclophanes with Bridgehead Methyl Groups. <i>Organic Letters</i> , 2018, 20, 2576-2579.	4.6	3
59	Synthesis and stereochemistry of ortho-methylated octaphenyl naphthalenes. <i>Chirality</i> , 1998, 10, 154-158.	2.6	3
60	A chiral, bis-anthraquinone-bridged cyclophane with a large specific rotation. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 768-772.	1.8	2
61	An Exceptionally Close, Non-Bonded Hydrogen-Hydrogen Contact with Strong Through-Space Spin-Spin Coupling. <i>Angewandte Chemie</i> , 2018, 130, 2266-2269.	2.0	2
62	A Simple, Serendipitous Synthesis of Heterohexahelicenes. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6534-6538.	2.4	2
63	Extremely Crowded Biaryls. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3294-3302.	2.4	2
64	Crystal structure of 2-cyano-1-methylpyridinium bromide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, o854-o855.	0.5	0