

Yves Rubin

List of Publications by Year in descending order

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109
papers

10,728
citations

30047

54
h-index

30058

103
g-index

125
all docs

125
docs citations

125
times ranked

6369
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the soluble all-carbon molecules C60 and C70. <i>The Journal of Physical Chemistry</i> , 1990, 94, 8630-8633.	2.9	820
2	The Higher Fullerenes: Isolation and Characterization of C76, C84, C90, C94, and C700, an Oxide of D5h-C70. <i>Science</i> , 1991, 252, 548-551.	6.0	661
3	Synthetic Approaches toward Molecular and Polymeric Carbon Allotropes. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1101-1123.	4.4	617
4	Two different fullerenes have the same cyclic voltammetry. <i>Journal of the American Chemical Society</i> , 1991, 113, 1050-1051.	6.6	575
5	Polyethynylated cyclic π -systems: scaffoldings for novel two and three-dimensional carbon networks. <i>Chemical Society Reviews</i> , 1999, 28, 107-119.	18.7	394
6	Synthesis and x-ray structure of a Diels-Alder adduct of fullerene C60. <i>Journal of the American Chemical Society</i> , 1993, 115, 344-345.	6.6	270
7	A Red, Green, and Blue (RGB) Polymeric Electrochromic Device (PECD): The Dawning of the PECD Era. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1498-1502.	7.2	265
8	The unusual electron spin resonance of fullerene C60 anion radical. <i>Journal of the American Chemical Society</i> , 1991, 113, 2780-2781.	6.6	251
9	All-Carbon Molecules: Evidence for the Generation of Cyclo[18]carbon from a Stable Organic Precursor. <i>Science</i> , 1989, 245, 1088-1090.	6.0	248
10	Strategien zum Aufbau molekularer und polymerer Kohlenstoffallotrope. <i>Angewandte Chemie</i> , 1992, 104, 1123-1146.	1.6	241
11	Insertion of Helium and Molecular Hydrogen Through the Orifice of an Open Fullerene. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1543-1546.	7.2	234
12	A Processable Green Polymeric Electrochromic. <i>Macromolecules</i> , 2005, 38, 669-675.	2.2	215
13	Organic Approaches to Endohedral Metallofullerenes: Cracking Open or Zipping Up Carbon Shells?. <i>Chemistry - A European Journal</i> , 1997, 3, 1009-1016.	1.7	198
14	Synthesis of a rigid "ball-and-chain" donor-acceptor system through Diels-Alder functionalization of buckminsterfullerene (C60). <i>Journal of the American Chemical Society</i> , 1993, 115, 4919-4920.	6.6	190
15	Photoinduced Electron Transfer to C60 across Extended 3- and 11-Bond Hydrocarbon Bridges: A Creation of a Long-Lived Charge-Separated State. <i>Journal of Organic Chemistry</i> , 1996, 61, 5055-5062.	1.7	188
16	Optimizing the Binding of Fullerene Inhibitors of the HIV-1 Protease through Predicted Increases in Hydrophobic Desolvation. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 2424-2429.	2.9	183
17	The higher oxides of carbon C8nO2n (n = 3-5): synthesis, characterization, and x-ray crystal structure. Formation of cyclo[n]carbon ions Cn+ (n = 18, 24), Cn- (n = 18, 24, 30), and higher carbon ions including C60+ in laser desorption Fourier transform mass spectrometric experiments. <i>Journal of the American Chemical Society</i> , 1991, 113, 495-500.	6.6	167
18	Photophysical Characterization and Singlet Oxygen Yield of a Dihydrofullerene. <i>Journal of the American Chemical Society</i> , 1994, 116, 9763-9764.	6.6	166

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19	Solution-spray flash vacuum pyrolysis: a new method for the synthesis of linear polyynes with odd numbers of C-C bonds from substituted 3,4-dialkynyl-3-cyclobutene-1,2-diones. <i>Journal of the American Chemical Society</i> , 1991, 113, 6943-6949.	6.6	160
20	Sequence-specific modification of guanosine in DNA by a C60-linked deoxyoligonucleotide: Evidence for a non-singlet oxygen mechanism. <i>Tetrahedron</i> , 1996, 52, 5179-5189.	1.0	156
21	Unusual Luminescence of Hexapyrrolidine Derivatives of C60 with Novel D3-Symmetry. <i>Journal of the American Chemical Society</i> , 1999, 121, 3246-3247.	6.6	126
22	Synthesis of α -amino acid derivatives of C60 from 1,9-(4-hydroxycyclohexano) buckminsterfullerene. <i>Journal of Organic Chemistry</i> , 1993, 58, 4799-4801.	1.7	124
23	Triple Scission of a Six-Membered Ring on the Surface of C60 via Consecutive Pericyclic Reactions and Oxidative Cobalt Insertion. <i>Journal of the American Chemical Society</i> , 1996, 118, 3775-3776.	6.6	124
24	Synthesis and crystal structure of a stable hexacobalt complex of cyclo[18]carbon. <i>Journal of the American Chemical Society</i> , 1990, 112, 4966-4968.	6.6	118
25	Tetraethynylethenes: Fully cross-conjugated π -electron chromophores and molecular scaffolds for all-carbon networks and carbon-rich nanomaterials. <i>Helvetica Chimica Acta</i> , 1995, 78, 13-45.	1.0	116
26	Precursors to the cyclo[n]carbons: from 3,4-dialkynyl-3-cyclobutene-1,2-diones and 3,4-dialkynyl-3-cyclobutene-1,2-diols to cyclobutenodehydroannulenes and higher oxides of carbon. <i>Journal of the American Chemical Society</i> , 1990, 112, 1607-1617.	6.6	113
27	Synthetic Routes to the Cyclo[n]carbons. <i>Helvetica Chimica Acta</i> , 1994, 77, 1441-1457.	1.0	113
28	Bucky Light Bulbs: White Light Electroluminescence from a Fluorescent C60 Adduct Single Layer Organic LED. <i>Journal of the American Chemical Society</i> , 1999, 121, 5611-5612.	6.6	113
29	Ring Opening Reactions of Fullerenes: Designed Approaches to Endohedral Metal Complexes. <i>Topics in Current Chemistry</i> , 1999, , 67-91.	4.0	109
30	Fullerene-Acetylene Hybrids: On the Way to Synthetic Molecular Carbon Allotropes. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1366-1368.	4.4	107
31	Self-Assembling Fullerenes for Improved Bulk-Heterojunction Photovoltaic Devices. <i>Journal of the American Chemical Society</i> , 2008, 130, 17290-17292.	6.6	107
32	Formation of an Effective Opening within the Fullerene Core of C60 by an Unusual Reaction Sequence. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2360-2363.	7.2	106
33	Triplet-State Properties and Singlet Oxygen Generation in a Homologous Series of Functionalized Fullerene Derivatives. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7230-7235.	1.1	103
34	Electrical Rectification in a Langmuir-Blodgett Monolayer of Dimethylanilinoazafullerene Sandwiched between Gold Electrodes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1021-1027.	1.2	102
35	Precursors to Endohedral Metal Fullerene Complexes: A Synthesis and X-ray Structure of a Flexible Acetylenic Cyclophane C60H18. <i>Journal of the American Chemical Society</i> , 1996, 118, 5308-5309.	6.6	101
36	Synthesis of Stable Derivatives of C62: The First Nonclassical Fullerene Incorporating a Four-Membered Ring. <i>Journal of the American Chemical Society</i> , 2003, 125, 2066-2067.	6.6	97

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37	Acetylenic Cyclophanes as Fullerene Precursors: Formation of C ₆₀ H ₆ and C ₆₀ by Laser Desorption Mass Spectrometry of C ₆₀ H ₆ (CO) ₁₂ . <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1226-1229.	7.2	93
38	X-ray diffraction and electron spectroscopy of epitaxial molecular Buckminsterfullerene films. <i>The Journal of Physical Chemistry</i> , 1991, 95, 4709-4712.	2.9	88
39	Synthesis of Graphene Nanoribbons via the Topochemical Polymerization and Subsequent Aromatization of a Diacetylene Precursor. <i>Chem</i> , 2016, 1, 78-90.	5.8	87
40	Synthesis, Characterization, and Coordination Chemistry of the 2-Azaphenalenyl Radical. <i>Journal of the American Chemical Society</i> , 2003, 125, 5786-5791.	6.6	86
41	Synthesis of a Variety of Bichromophoric "Ball-and-Chain" Systems Based on Buckminsterfullerene (C ₆₀) for the Study of Intramolecular Electron and Energy Transfer Processes. <i>Journal of Organic Chemistry</i> , 1996, 61, 5032-5054.	1.7	85
42	C ₆₂ , a Non-Classical Fullerene Incorporating a Four-Membered Ring. <i>Journal of the American Chemical Society</i> , 2000, 122, 8333-8334.	6.6	84
43	Tetraethynylethene. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 698-700.	4.4	82
44	Synthesis of $N = 8$ Armchair Graphene Nanoribbons from Four Distinct Polydiacetylenes. <i>Journal of the American Chemical Society</i> , 2017, 139, 15878-15890.	6.6	78
45	Atomic Force Microscope Studies of Fullerene Films: Highly Stable C ₆₀ fcc (311) Free Surfaces. <i>Science</i> , 1991, 253, 171-173.	6.0	71
46	Reversible switching of molecular second-order nonlinear optical polarizability through proton-transfer. <i>Chemical Physics Letters</i> , 2002, 364, 279-283.	1.2	71
47	The Unusual Effect of Bandgap Lowering by C ₆₀ on a Conjugated Polymer. <i>Advanced Materials</i> , 2005, 17, 897-900.	11.1	68
48	A Methodology for the Reversible Solubilization of Fullerenes. <i>Journal of Organic Chemistry</i> , 1995, 60, 6353-6361.	1.7	64
49	Solid-State NMR Spectroscopy of Molecular Hydrogen Trapped Inside an Open-Cage Fullerene. <i>Journal of the American Chemical Society</i> , 2004, 126, 4092-4093.	6.6	64
50	Synthesis and Characterization of Diethynylmethanobuckminsterfullerene, a Building Block for Macrocyclic and Polymeric Carbon Allotropes. <i>Journal of Organic Chemistry</i> , 1994, 59, 2927-2929.	1.7	62
51	An Unusually Stable Pentaethynylcyclopentadienyl Radical. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1986-1990.	4.4	60
52	Synthesis and X-ray Characterization of an Octaalkynyldibenzo[10]annulene. <i>Journal of Organic Chemistry</i> , 1997, 62, 3432-3433.	1.7	60
53	An Amphiphilic Poly(phenylene ethynylene) as the Structure-Directing Agent for Periodic Nanoscale Silica Composite Materials. <i>Nano Letters</i> , 2005, 5, 1647-1652.	4.5	54
54	Long-lived photoinduced polaron formation in conjugated polyelectrolyte-fullerene assemblies. <i>Science</i> , 2015, 348, 1340-1343.	6.0	53

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55	1,3,5 / 2,4,6-Differentiated hexaalkynylbenzenes: absorption and fluorescence properties of a D _{3h} -symmetric donor-substituted system. <i>Tetrahedron Letters</i> , 1997, 38, 3499-3502.	0.7	47
56	Towards Sixfold Functionalization of Buckminsterfullerene (C ₆₀) at Fully Addressable Octahedral Sites. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2356-2360.	7.2	47
57	Tetraethynylethen. <i>Angewandte Chemie</i> , 1991, 103, 708-710.	1.6	46
58	Graphene-Assisted Solution Growth of Vertically Oriented Organic Semiconducting Single Crystals. <i>ACS Nano</i> , 2015, 9, 9486-9496.	7.3	46
59	Approaches to Open Fullerenes: A 1,2,3,4,5,6-Hexaadduct of C ₆₀ . <i>Organic Letters</i> , 2006, 8, 4525-4528.	2.4	39
60	Electronic and structural properties of the cyclobutenodehydroannulenes. <i>Journal of the American Chemical Society</i> , 1990, 112, 1618-1623.	6.6	38
61	Sequential "Bis-Michael" Additions of Dienolates with C ₆₀ : Rapid Access to Sterically Congested Buckminsterfullerene Derivatives with Defined Stereochemistry. <i>Journal of Organic Chemistry</i> , 1995, 60, 2954-2955.	1.7	38
62	Unusual Regioselectivity in the Self-Sensitized Singlet Oxygen Ene Reaction of Cyclohexenobuckminsterfullerenes. <i>Journal of Organic Chemistry</i> , 1995, 60, 8330-8331.	1.7	38
63	Approaches to Open Fullerenes: Synthesis and Thermal Stability of cis-1-Bis(isobenzofuran) Diels-Alder Adducts of C ₆₀ . <i>Journal of Organic Chemistry</i> , 2007, 72, 2724-2731.	1.7	38
64	Directing the Crystallization of Dehydro[24]annulenes into Supramolecular Nanotubular Scaffolds. <i>Journal of the American Chemical Society</i> , 2016, 138, 5939-5956.	6.6	37
65	Approaches to Open Fullerenes: Synthesis and Kinetic Stability of Diels-Alder Adducts of Substituted Isobenzofurans and C ₆₀ . <i>Journal of Organic Chemistry</i> , 2007, 72, 2716-2723.	1.7	36
66	Complexes of Gold(I), Silver(I), and Copper(I) with Pentaaryl[60]fullerides. <i>Journal of the American Chemical Society</i> , 2011, 133, 6841-6851.	6.6	36
67	Tandem Nucleophilic Addition/Diels-Alder Reaction of N-Butadienyl N,O-Ketene Silyl Acetals with C ₆₀ : Stereoselective Formation of Bicyclic Octahydroquinolino-1,2,3,4-Tetrahydrobuckminsterfullerenes and Combined NMR Spectroscopic and Computational Evaluation of the Functionalization Reactions. <i>Chemistry - A European Journal</i> , 1999, 5, 3162-3184.	1.7	35
68	Unexpected Formation of a Sc ₃ C ₂ @C ₈₀ Bisfulleroid Derivative. <i>Journal of the American Chemical Society</i> , 2012, 134, 4092-4095.	6.6	35
69	Nanochannel Array within a Multilayered Network of a Planarized Dehydro[24]annulene. <i>Organic Letters</i> , 2010, 12, 2346-2349.	2.4	34
70	Beyond PCBM: methoxylated 1,4-bisbenzyl[60]fullerene adducts for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 416-424.	5.2	34
71	Perchloro-2,5,8-triazaphenalenyl Radical. <i>Organic Letters</i> , 2005, 7, 1861-1863.	2.4	33
72	Fulleren-Äcetylen-ÄHybride: auf dem Weg zu neuen, synthetischen molekularen Kohlenstoffallotropen. <i>Angewandte Chemie</i> , 1994, 106, 1427-1429.	1.6	32

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73	Understanding Local and Macroscopic Electron Mobilities in the Fullerene Network of Conjugated Polymer-based Solar Cells: Time-Resolved Microwave Conductivity and Theory. <i>Advanced Functional Materials</i> , 2014, 24, 784-792.	7.8	31
74	Precursors to the cyclo[n]carbons: [4n + 2]- and [4n]annulenes with unusual stabilities. <i>Journal of the American Chemical Society</i> , 1989, 111, 6870-6871.	6.6	30
75	A Parallel Library of all Seven A ₂ +B ₂ +C ₂ Th Regioisomeric Hexakisadducts of Fullerene C ₆₀ : Inspiration from Werner's Octahedral Stereoisomerism. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3133-3137.	7.2	29
76	ONIOM Study of Ring Opening and Metal Insertion Reactions with Derivatives of C ₆₀ : Role of Aromaticity in the Opening Process. <i>Journal of Physical Chemistry A</i> , 2002, 106, 680-688.	1.1	27
77	Structure of the Hydration Product of the C ₆₀ -Di(2-pyridyl)-1,2,4,5-tetrazine Adduct. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 1669-1672.	2.0	27
78	Convergent, Regioselective Synthesis of Tetrakisfulleroids from C ₆₀ . <i>Journal of Organic Chemistry</i> , 2002, 67, 7683-7687.	1.7	25
79	Self-Assembling Semiconducting Polymers—Rods and Gels from Electronic Materials. <i>ACS Nano</i> , 2013, 7, 962-977.	7.3	25
80	Synthesis and redox properties of tetraethynyl tetrathiafulvalenes. <i>Tetrahedron Letters</i> , 1998, 39, 1327-1330.	0.7	24
81	Unexpected De-Arylation of a Pentaaryl Fullerene. <i>Organic Letters</i> , 2009, 11, 1389-1391.	2.4	24
82	Pentaarylazafullerenes and their Triaryldihydro and Tetraarylmonohydro Precursors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11722-11726.	7.2	24
83	Fjord-Edge Graphene Nanoribbons with Site-Specific Nitrogen Substitution. <i>Journal of the American Chemical Society</i> , 2020, 142, 18093-18102.	6.6	24
84	Generation of 1,2-Bisketenes from Cyclobutene-1,2-diones by Flash Photolysis and Ring Closure Kinetics I. <i>Journal of the American Chemical Society</i> , 1997, 119, 12125-12130.	6.6	23
85	Chiral recognition in aqueous solution. Search for water-soluble chiral hosts with apolar binding sites. <i>Journal of Organic Chemistry</i> , 1986, 51, 3270-3278.	1.7	22
86	Using Pentaarylfullerenes to Understand Network Formation in Conjugated Polymer-Based Bulk-Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22563-22571.	1.5	22
87	Gold(I) Triphenylphosphine Complexes Incorporating Pentaarylfulleride Ligands. <i>Inorganic Chemistry</i> , 2010, 49, 3974-3976.	1.9	21
88	Crystal-Packing Trends for a Series of 6,9,12,15,18-Pentaaryl-1-hydro[60]fullerenes. <i>Chemistry - A European Journal</i> , 2012, 18, 7418-7433.	1.7	19
89	Panoramic View of Electrochemical Pseudocapacitor and Organic Solar Cell Research in Molecularly Engineered Energy Materials (MEEM). <i>Journal of Physical Chemistry C</i> , 2014, 118, 19505-19523.	1.5	19
90	Ein ungewöhnlich stabiles Pentaethynylcyclopentadienyl-Radikal. <i>Angewandte Chemie</i> , 1996, 108, 2116-2120.	1.6	18

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91	Photophysics of Open C60 Derivatives. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7914-7918.	1.2	18
92	Synthesis and Self-Assembly of an Amphiphilic Poly(phenylene ethynylene) Ionomer. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22088-22096.	1.2	15
93	Complete Control over Addend Permutation at All Six Pseudooctahedral Positions of Fullerene C60. <i>Journal of the American Chemical Society</i> , 2000, 122, 9564-9565.	6.6	14
94	Structure and Conductivity of Semiconducting Polymer Hydrogels. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6215-6224.	1.2	14
95	Approaches to stable cyclopropenyl anions: Tris-1,2,3-p-nitrophenylcyclopropene. <i>Tetrahedron</i> , 1997, 53, 4129-4136.	1.0	13
96	Pressure-tuning vibrational spectroscopic study of (I-5-C5H5)Co(C64H4) Can endohedral fullerenes be formed under pressure?. <i>Journal of Molecular Structure</i> , 1998, 442, 169-174.	1.8	12
97	Self-Assembled Dehydro[24]annulene Monolayers at the Liquid/Solid Interface: Toward On-Surface Synthesis of Tubular I-Conjugated Nanowires. <i>Langmuir</i> , 2016, 32, 5532-5541.	1.6	12
98	Outer-Sphere Organometallic Chemistry of C60: Synthesis and X-ray Structure of a Strained [I-4-(Cyclohexadieno) buckminsterfullerene]iron Tricarbonyl Complex. <i>Organometallics</i> , 1996, 15, 4340-4342.	1.1	10
99	Regioselective Cage Opening of La ₂ @D ₂ (10611)C ₇₂ with 5,6-Diphenyl-2-(2-pyridyl)-1,2,4-triazine. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2232-2235.	7.2	9
100	Switch of Electronic Reactivity in Fullerene C60: Activation of Threetrans-4 Positions via Temporary Saturation of the cis-1 Positions. <i>Organic Letters</i> , 2006, 8, 6075-6078.	2.4	8
101	Bay-Linked Perylenediimides are Two Molecules in One: Insights from Ultrafast Spectroscopy, Temperature Dependence, and Time-Dependent Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2127-2138.	1.5	8
102	Insertion of Helium and Molecular Hydrogen Through the Orifice of an Open Fullerene This work was supported by grants from the National Science Foundation.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1543-1546.	7.2	5
103	The Allure of Metallic Stripes: Single-Sized Narrow Ribbons of Graphene. <i>CheM</i> , 2017, 2, 11-12.	5.8	4
104	Photophysical properties of hexapyrrolidine C60 adducts with Th and D3 symmetry: protonation of multiple basic sites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1999, 127, 13-19.	2.0	2
105	From Fullerenes to Novel Carbon Allotropes: Exciting Prospects for Organic Synthesis. , 2005, , 161-186.		1
106	Auf dem Weg zur vollständigen Kontrolle der sechsfachen Funktionalisierung von Buckminsterfulleren (C60) an oktaedrischen Positionen. <i>Angewandte Chemie</i> , 1999, 111, 2504-2508.	1.6	1
107	Recent Aspects of the Functionalization Chemistry of Buckminsterfullerene (C60): Preparation of New materials and compounds of Biological Interest. , 1996, , 295-328.		1
108	Convergent, Regioselective Synthesis of Tetrakisfulleroids from C60.. <i>ChemInform</i> , 2003, 34, no.	0.1	0

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109	A Methodology for the Reversible Solubilization of Fullerenes. Journal of Organic Chemistry, 1996, 61, 1900-1900.	1.7	0