

Yves Rubin

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115
papers

9,269
citations

52
h-index

95
g-index

125
ext. papers

9,654
ext. citations

10.5
avg, IF

5.51
L-index

#	Paper	IF	Citations
115	Characterization of the soluble all-carbon molecules C ₆₀ and C ₇₀ . <i>The Journal of Physical Chemistry</i> , 1990 , 94, 8630-8633		750
114	The Higher Fullerenes: Isolation and Characterization of C ₇₆ , C ₈₄ , C ₉₀ , C ₉₄ , and C ₇₀₀ , an Oxide of D _{5h} -C ₇₀ . <i>Science</i> , 1991 , 252, 548-51	33.3	588
113	Synthetic Approaches toward Molecular and Polymeric Carbon Allotropes. <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 1101-1123		513
112	Two different fullerenes have the same cyclic voltammetry. <i>Journal of the American Chemical Society</i> , 1991 , 113, 1050-1051	16.4	510
111	Polyethynylated cyclic β systems: scaffoldings for novel two and three-dimensional carbon networks. <i>Chemical Society Reviews</i> , 1999 , 28, 107-119	58.5	335
110	A red, green, and blue (RGB) polymeric electrochromic device (PECD): the dawning of the PECD era. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1498-502	16.4	250
109	Synthesis and x-ray structure of a Diels-Alder adduct of fullerene C ₆₀ . <i>Journal of the American Chemical Society</i> , 1993 , 115, 344-345	16.4	231
108	The unusual electron spin resonance of fullerene C ₆₀ anion radical. <i>Journal of the American Chemical Society</i> , 1991 , 113, 2780-2781	16.4	228
107	A Processable Green Polymeric Electrochromic. <i>Macromolecules</i> , 2005 , 38, 669-675	5.5	205
106	Insertion of Helium and Molecular Hydrogen Through the Orifice of an Open Fullerene. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1543-1546	16.4	205
105	Strategien zum Aufbau molekularer und polymerer Kohlenstoffallotrope. <i>Angewandte Chemie</i> , 1992 , 104, 1123-1146	3.6	185
104	All-Carbon Molecules: Evidence for the Generation of Cyclo[18]carbon from a Stable Organic Precursor. <i>Science</i> , 1989 , 245, 1088-90	33.3	185
103	Organic Approaches to Endohedral Metallofullerenes: Cracking Open or Zipping Up Carbon Shells?. <i>Chemistry - A European Journal</i> , 1997 , 3, 1009-1016	4.8	168
102	Photoinduced Electron Transfer to C ₆₀ across Extended 3- and 11-Bond Hydrocarbon Bridges: Creation of a Long-Lived Charge-Separated State. <i>Journal of Organic Chemistry</i> , 1996 , 61, 5055-5062	4.2	166
101	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, 2424-9	8.3	165
100	Synthesis of a rigid "ball-and-chain" donor-acceptor system through Diels-Alder functionalization of buckminsterfullerene (C ₆₀). <i>Journal of the American Chemical Society</i> , 1993 , 115, 4919-4920	16.4	159
99	Photophysical Characterization and Singlet Oxygen Yield of a Dihydrofullerene. <i>Journal of the American Chemical Society</i> , 1994 , 116, 9763-9764	16.4	140

98	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	16.4	140
97	The higher oxides of carbon C _{8n} O _{2n} (n = 3-5): synthesis, characterization, and x-ray crystal structure. Formation of cyclo[n]carbon ions C _n ⁺ (n = 18, 24), C _n ⁻ (n = 18, 24, 30), and higher carbon ions including C ₆₀ ⁺ in laser desorption Fourier transform mass spectrometric experiments. <i>Journal of the American Chemical Society</i> , 1991 , 113, 495-500	16.4	134
96	Sequence-specific modification of guanosine in DNA by a C ₆₀ -linked deoxyoligonucleotide: Evidence for a non-singlet oxygen mechanism. <i>Tetrahedron</i> , 1996 , 52, 5179-5189	2.4	130
95	Unusual Luminescence of Hexapyrrolidine Derivatives of C ₆₀ with Th and Novel D ₃ -Symmetry. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3246-3247	16.4	117
94	Self-assembling fullerenes for improved bulk-heterojunction photovoltaic devices. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17290-2	16.4	103
93	Bucky Light Bulbs: White Light Electroluminescence from a Fluorescent C ₆₀ Adduct Single Layer Organic LED. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5611-5612	16.4	102
92	Tetraethynylethenes: Fully cross-conjugated electron chromophores and molecular scaffolds for all-carbon networks and carbon-rich nanomaterials. <i>Helvetica Chimica Acta</i> , 1995 , 78, 13-45	2	101
91	Triple Scission of a Six-Membered Ring on the Surface of C ₆₀ via Consecutive Pericyclic Reactions and Oxidative Cobalt Insertion. <i>Journal of the American Chemical Society</i> , 1996 , 118, 3775-3776	16.4	100
90	Synthesis of α -amino acid derivatives of C ₆₀ from 1,9-(4-hydroxycyclohexano) buckminsterfullerene. <i>Journal of Organic Chemistry</i> , 1993 , 58, 4799-4801	4.2	100
89	Ring Opening Reactions of Fullerenes: Designed Approaches to Endohedral Metal Complexes. <i>Topics in Current Chemistry</i> , 1999 , 67-91		98
88	Electrical Rectification in a Langmuir-Blodgett Monolayer of Dimethylanilinoaza fullerene Sandwiched between Gold Electrodes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 1021-1027	3.4	92
87	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	16.4	92
86	Formation of an Effective Opening within the Fullerene Core of C(60) by an Unusual Reaction Sequence. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2360-2363	16.4	91
85	Synthesis of stable derivatives of c(62): the first nonclassical fullerene incorporating a four-membered ring. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2066-7	16.4	90
84	Synthetic Routes to the Cyclo[n]carbons. <i>Helvetica Chimica Acta</i> , 1994 , 77, 1441-1457	2	90
83	Fullerene-Acetylene Hybrids: On the Way to Synthetic Molecular Carbon Allotropes. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1366-1368		90
82	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	16.4	90
81	Precursors to Endohedral Metal Fullerene Complexes: Synthesis and X-ray Structure of a Flexible Acetylenic Cyclophane C ₆₀ H ₁₈ . <i>Journal of the American Chemical Society</i> , 1996 , 118, 5308-5309	16.4	87

80	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	2.8	86
79	X-ray diffraction and electron spectroscopy of epitaxial molecular Buckminsterfullerene films. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 4709-4712		81
78	Synthesis, characterization, and coordination chemistry of the 2-azaphenalenyl radical. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5786-91	16.4	80
77	Acetylenic Cyclophanes as Fullerene Precursors: Formation of C ₆₀ and C ₇₀ by Laser Desorption Mass Spectrometry of C ₆₀ H ₂ (CO). <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 1226-1229	16.4	78
76	Tetraethynylethene. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 698-700		72
75	C ₆₂ , a Non-Classical Fullerene Incorporating a Four-Membered Ring. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8333-8334	16.4	71
74	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	4.2	71
73	The Unusual Effect of Bandgap Lowering by C ₆₀ on a Conjugated Polymer. <i>Advanced Materials</i> , 2005 , 17, 897-900	24	65
72	Synthesis of Graphene Nanoribbons via the Topochemical Polymerization and Subsequent Aromatization of a Diacetylene Precursor. <i>Chem</i> , 2016 , 1, 78-90	16.2	65
71	Reversible switching of molecular second-order nonlinear optical polarizability through proton-transfer. <i>Chemical Physics Letters</i> , 2002 , 364, 279-283	2.5	63
70	Solid-state NMR spectroscopy of molecular hydrogen trapped inside an open-cage fullerene. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4092-3	16.4	60
69	Atomic Force Microscope Studies of Fullerene Films: Highly Stable C ₆₀ fcc (311) Free Surfaces. <i>Science</i> , 1991 , 253, 171-3	33.3	60
68	Synthesis of N = 8 Armchair Graphene Nanoribbons from Four Distinct Polydiacetylenes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15878-15890	16.4	57
67	Synthesis and X-ray Characterization of an Octaalkynyldibenzooctadehydro[12]-annulene. <i>Journal of Organic Chemistry</i> , 1997 , 62, 3432-3433	4.2	55
66	Synthesis and Characterization of Diethynylmethanobuckminsterfullerene, a Building Block for Macrocyclic and Polymeric Carbon Allotropes. <i>Journal of Organic Chemistry</i> , 1994 , 59, 2927-2929	4.2	54
65	Insertion of Helium and Molecular Hydrogen Through the Orifice of an Open Fullerene. <i>Angewandte Chemie</i> , 2001 , 113, 1591-1594	3.6	52
64	A Methodology for the Reversible Solubilization of Fullerenes. <i>Journal of Organic Chemistry</i> , 1995 , 60, 6353-6361	4.2	52
63	An Unusually Stable Pentaethynylcyclopentadienyl Radical. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1986-1990		52

62	An amphiphilic poly(phenylene ethynylene) as the structure-directing agent for periodic nanoscale silica composite materials. <i>Nano Letters</i> , 2005 , 5, 1647-52	11.5	51
61	POLARON DYNAMICS. Long-lived photoinduced polaron formation in conjugated polyelectrolyte-fullerene assemblies. <i>Science</i> , 2015 , 348, 1340-3	33.3	44
60	1,3,5 / 2,4,6-Differentiated hexaalkynylbenzenes: absorption and fluorescence properties of a D3h-symmetric donor-substituted system. <i>Tetrahedron Letters</i> , 1997 , 38, 3499-3502	2	42
59	Towards Sixfold Functionalization of Buckminsterfullerene (C(60)) at Fully Addressable Octahedral Sites. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2356-2360	16.4	39
58	Tetraethynylethen. <i>Angewandte Chemie</i> , 1991 , 103, 708-710	3.6	38
57	Graphene-Assisted Solution Growth of Vertically Oriented Organic Semiconducting Single Crystals. <i>ACS Nano</i> , 2015 , 9, 9486-96	16.7	37
56	Approaches to open fullerenes: a 1,2,3,4,5,6-hexaadduct of C60. <i>Organic Letters</i> , 2006 , 8, 4525-8	6.2	35
55	Approaches to open fullerenes: synthesis and thermal stability of cis-1 bis(isobenzofuran) Diels-Alder adducts of C60. <i>Journal of Organic Chemistry</i> , 2007 , 72, 2724-31	4.2	33
54	Approaches to open fullerenes: synthesis and kinetic stability of diels-alder adducts of substituted isobenzofurans and C60. <i>Journal of Organic Chemistry</i> , 2007 , 72, 2716-23	4.2	33
53	Tandem Nucleophilic Addition/Diels-Alder Reaction of N-Butadienyl N,O-Ketene Silyl Acetals with C60: 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> , 2011 , 17, 2716-23	4.8	33
52	Complexes of gold(I), silver(I), and copper(I) with pentaaryl[60]fullerides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6841-51	16.4	32
51	Sequential "Bis-Michael" Additions of Dienolates with C60: Rapid Access to Sterically Congested Buckminsterfullerene Derivatives with Defined Stereochemistry. <i>Journal of Organic Chemistry</i> , 1995 , 60, 2954-2955	4.2	32
50	Unexpected formation of a Sc3C2@C80 bisfulleroid derivative. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4092-5	16.4	31
49	Perchloro-2,5,8-triazaphenalenyl radical. <i>Organic Letters</i> , 2005 , 7, 1861-3	6.2	31
48	Directing the Crystallization of Dehydro[24]annulenes into Supramolecular Nanotubular Scaffolds. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5939-56	16.4	31
47	Nanochannel array within a multilayered network of a planarized dehydro[24]annulene. <i>Organic Letters</i> , 2010 , 12, 2346-9	6.2	30
46	Electronic and structural properties of the cyclobutenodehydroannulenes. <i>Journal of the American Chemical Society</i> , 1990 , 112, 1618-1623	16.4	30
45	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	15.6	29

44	Unusual Regioselectivity in the Self-Sensitized Singlet Oxygen Ene Reaction of Cyclohexenobuckminsterfullerenes. <i>Journal of Organic Chemistry</i> , 1995 , 60, 8330-8331	4.2	28
43	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	13	27
42	A Parallel Library of all Seven A(2)+B(2)+C(2) T(h) Regioisomeric Hexakisadducts of Fullerene C(60): Inspiration from Werner's Octahedral Stereoisomerism This work was supported by a National Science Foundation Young Investigator Award (CHE-9457693), the Office of Naval Research (N00014-98-1-0035), and an Alfred P. Sloan Research Fellowship award. <i>Angewandte Chemie - Die effektive Öffnung des C60-Gerüts durch eine ungewöhnliche Reaktionsfolge. Angewandte Chemie</i> , 1999 , 111, 2508-2512	16.4	27
41	ONIOM Study of Ring Opening and Metal Insertion Reactions with Derivatives of C60: Role of Aromaticity in the Opening Process. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 680-688	2.8	26
39	Acetylcyclophane als Fullervorstufen: Bildung von C60H6 und C60 bei der laserdesorptionsmassenspektrometrischen Untersuchung von C60H6(CO)12. <i>Angewandte Chemie</i> , 1998 , 110, 1353-1356	3.6	25
38	Pentaarylazafullerenes and their triaryldihydro and tetraarylmonohydro precursors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11722-6	16.4	24
37	Unexpected de-arylation of a pentaaryl fullerene. <i>Organic Letters</i> , 2009 , 11, 1389-91	6.2	23
36	Structure of the Hydration Product of the C60-Di(2-pyridyl)-1,2,4,5-tetrazine Adduct. <i>Bulletin of the Chemical Society of Japan</i> , 2003 , 76, 1669-1672	5.1	23
35	Convergent, regioselective synthesis of tetrakisfulleroids from C(60). <i>Journal of Organic Chemistry</i> , 2002 , 67, 7683-7	4.2	23
34	Fulleren-Acetylen-Hybride: auf dem Weg zu neuen, synthetischen molekularen Kohlenstoffallotropen. <i>Angewandte Chemie</i> , 1994 , 106, 1427-1429	3.6	23
33	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	16.4	23
32	Self-assembling semiconducting polymers--rods and gels from electronic materials. <i>ACS Nano</i> , 2013 , 7, 962-77	16.7	21
31	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	3.8	21
30	Generation of 1,2-Bisketenes from Cyclobutene-1,2-diones by Flash Photolysis and Ring Closure Kinetics1a. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12125-12130	16.4	20
29	Gold(I) triphenylphosphine complexes incorporating pentaarylfulleride ligands. <i>Inorganic Chemistry</i> , 2010 , 49, 3974-6	5.1	19
28	Synthesis and redox properties of tetraethynyl tetrathiafulvalenes. <i>Tetrahedron Letters</i> , 1998 , 39, 1327-1330		18
27	Pentaarylazafullerene und ihre Triaryldihydro- und Tetraarylmonohydro-Zwischenstufen. <i>Angewandte Chemie</i> , 2012 , 124, 11892-11896	3.6	16

26	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, 7418-33	4.8	16
25	Photophysics of Open C60 Derivatives. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7914-7918	3.4	16
24	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	3.8	15
23	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	4.2	15
22	Synthesis and self-assembly of an amphiphilic poly(phenylene ethynylene) ionomer. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22088-96	3.4	14
21	Ein ungewöhnlich stabiles Pentaethinylcyclopentadienyl-Radikal. <i>Angewandte Chemie</i> , 1996 , 108, 2116-2120	3.0	14
20	Self-Assembled Dehydro[24]annulene Monolayers at the Liquid/Solid Interface: Toward On-Surface Synthesis of Tubular π -Conjugated Nanowires. <i>Langmuir</i> , 2016 , 32, 5532-41	4	12
19	Approaches to stable cyclopropenyl anions: Tris-1,2,3-p-nitrophenylcyclopropene. <i>Tetrahedron</i> , 1997 , 53, 4129-4136	2.4	11
18	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	16.4	11
17	Fjord-Edge Graphene Nanoribbons with Site-Specific Nitrogen Substitution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18093-18102	16.4	11
16	Pressure-tuning vibrational spectroscopic study of (B-C5H5)Co(C64H4) Can endohedral fullerenes be formed under pressure?. <i>Journal of Molecular Structure</i> , 1998 , 442, 169-174	3.4	10
15	Auf dem Weg zur vollständigen Kontrolle der sechsfachen Funktionalisierung von Buckminsterfulleren (C60) an oktaedrischen Positionen. <i>Angewandte Chemie</i> , 1999 , 111, 2504-2508	3.6	10
14	Structure and Conductivity of Semiconducting Polymer Hydrogels. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 6215-24	3.4	10
13	Regioselective cage opening of La ₂ @D ₂ (10611)-C72 with 5,6-diphenyl-3-(2-pyridyl)-1,2,4-triazine. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2232-5	16.4	9
12	Switch of electronic reactivity in fullerene C60: activation of three trans-4 positions via temporary saturation of the cis-1 positions. <i>Organic Letters</i> , 2006 , 8, 6075-8	6.2	8
11	A Parallel Library of all Seven A ₂ +B ₂ +C ₂ Th Regioisomeric Hexakisadducts of Fullerene C60: Inspiration from Werner's Octahedral Stereoisomerism. <i>Angewandte Chemie</i> , 2000 , 112, 3263-3267	3.6	6
10	Outer-Sphere Organometallic Chemistry of C60: Synthesis and X-ray Structure of a Strained [4-(Cyclohexadieno) buckminsterfullerene]iron Tricarbonyl Complex. <i>Organometallics</i> , 1996 , 15, 4340-4342	2.8	6
9	Synthesis and X-ray Characterization of an Octaalkynyldibenzoctadehydro[12]-annulene. <i>Journal of Organic Chemistry</i> , 1997 , 62, 5656-5656	4.2	5

8	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	3.8	5
7	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	16.4	4
6	The Allure of Metallic Stripes: Single-Sized Narrow Ribbons of Graphene. <i>CheM</i> , 2017 , 2, 11-12	16.2	3
5	Regioselective Cage Opening of La ₂ @D ₂ (10611)-C ₇₂ with 5,6-Diphenyl-3-(2-pyridyl)-1,2,4-triazine. <i>Angewandte Chemie</i> , 2015 , 127, 2260-2263	3.6	2
4	Photophysical properties of hexapyrrolidine C ₆₀ adducts with Th and D ₃ symmetry: protonation of multiple basic sites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1999 , 127, 13-19	4.7	2
3	Recent Aspects of the Functionalization Chemistry of Buckminsterfullerene (C ₆₀): Preparation of New materials and compounds of Biological Interest 1996 , 295-328		1
2	Auf dem Weg zur vollständigen Kontrolle der sechsfachen Funktionalisierung von Buckminsterfulleren (C ₆₀) an oktaedrischen Positionen 1999 , 111, 2504		1
1	From Fullerenes to Novel Carbon Allotropes: Exciting Prospects for Organic Synthesis 2005 , 161-186		