

Liangbing Gan

List of Publications by Year in descending order

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1707
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#	ARTICLE	IF	CITATIONS
1	Preparation of π -extended fullerene derivatives through addition of phenylenediamine to open-cage fullerene derivatives. <i>Organic Chemistry Frontiers</i> , 2022, 9, 320-328.	4.5	5
2	Selective Nitration of Open-Cage [60]Fullerene Derivatives by Ponzio Reaction. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 4288-4292.	2.4	1
3	Synthesis of Open-Cage Fullerenes with a Long Tail. <i>Organic Materials</i> , 2020, 02, 282-287.	2.0	0
4	Selective Addition of Palladium on the Rim of Open-Cage Fullerenes To Form Mononuclear and Dinuclear Complexes. <i>Organometallics</i> , 2019, 38, 3139-3143.	2.3	8
5	Concise Synthesis of Open-Cage Fullerenes for Oxygen Delivery. <i>Angewandte Chemie</i> , 2019, 131, 17854-17858.	2.0	12
6	Concise Synthesis of Open-Cage Fullerenes for Oxygen Delivery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17690-17694.	13.8	31
7	Synthesis of Open-Cage [60]Fullerenes with Five Carbonyl Groups on the Rim of the 15-Membered Orifice. <i>ChemPlusChem</i> , 2019, 84, 608-612.	2.8	1
8	Molecular Containers Derived from [60]Fullerene through Peroxide Chemistry. <i>Accounts of Chemical Research</i> , 2019, 52, 1793-1801.	15.6	57
9	Synthesis of an open-cage fullerene-based unidirectional H-bonding network and its coordination with titanium. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1397-1402.	4.5	18
10	Nitrogen-Doped Graphene on Copper: Edge-Guided Doping Process and Doping-Induced Variation of Local Work Function. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8802-8812.	3.1	7
11	Regioselective Polyamination of Gd@C _{2v} (9)-C ₈₂ and Non-High Performance Liquid Chromatography Rapid Separation of Gd@C ₈₂ (morpholine) ₇ . <i>Chemistry of Materials</i> , 2018, 30, 64-68.	6.7	8
12	Synthesis of Metal Complexes with an Open-Cage Fullerene as the Ligand. <i>Chemistry - A European Journal</i> , 2018, 24, 451-457.	3.3	19
13	Oxygen-Delivery Materials: Synthesis of an Open-Cage Fullerene Derivative Suitable for Encapsulation of H ₂ O and O ₂ . <i>Angewandte Chemie</i> , 2018, 130, 14340-14344.	2.0	15
14	Oxygen-Delivery Materials: Synthesis of an Open-Cage Fullerene Derivative Suitable for Encapsulation of H ₂ O and O ₂ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14144-14148.	13.8	46
15	Synthesis of Pentapyrazolyl, Pentapyrrolyl, and Pentaanilino C ₆₀ Derivatives. <i>Synthesis</i> , 2018, 50, 4283-4289.	2.3	8
16	The Chemistry of Fullerene-Mixed Peroxides. <i>Chinese Journal of Chemistry</i> , 2018, 36, 991-994.	4.9	6
17	Synthesis of C ₇₀ -Based Fluorophores through Sequential Functionalization to Form Isomerically Pure Multiadducts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2403-2407.	13.8	31
18	Synthesis of homoazafullerene [C ₅₉ N(CH ₂) ₂] _R and azahomoazafullerene [C ₅₉ N(NH)] _R . <i>Organic Chemistry Frontiers</i> , 2017, 4, 750-754.	4.5	0

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19	Controlled Synthesis of Nitrogen-Doped Graphene on Ruthenium from Azafullerene. Nano Letters, 2017, 17, 2887-2894.	9.1	25
20	[60]Fullerene-Based Macrocyclic Ligands. Chemistry - A European Journal, 2017, 23, 10485-10490.	3.3	20
21	Hydrolysis-Initiated Domino Process on the Rim of Open-Cage C ₆₀ Derivatives Including Decarbonylation and Double Dehydration. ChemPlusChem, 2017, 82, 1002-1005.	2.8	4
22	Synthesis of C ₇₀ -Based Fluorophores through Sequential Functionalization to Form Isomerically Pure Multiadducts. Angewandte Chemie, 2017, 129, 2443-2447.	2.0	25
23	Frontispiece: [60]Fullerene-Based Macrocyclic Ligands. Chemistry - A European Journal, 2017, 23, .	3.3	0
24	Synthesis and reactivity of tetraalkoxyl[60]fullerene epoxides, C ₆₀ (O)(OR) ₄ . Canadian Journal of Chemistry, 2017, 95, 292-297.	1.1	5
25	Synthesis of Isomerically Pure Multi-aniline C ₆₀ Adducts with Cyclopentadienyl Addition Pattern. European Journal of Organic Chemistry, 2016, 2016, 3070-3075.	2.4	2
26	Selective Multiamination of C ₇₀ Leading to Curved Ĩ-Systems with 60, 58, 56, and 50 Ĩ-Electrons. Angewandte Chemie, 2016, 128, 2529-2533.	2.0	6
27	Selective Multiamination of C ₇₀ Leading to Curved Ĩ-Systems with 60, 58, 56, and 50 Ĩ-Electrons. Angewandte Chemie - International Edition, 2016, 55, 2483-2487.	13.8	22
28	Synthesis of C ₅₈ Open-Cage Fullerene Derivatives. Synlett, 2016, 27, 2123-2127.	1.8	7
29	Preparation of Azafullerene C ₅₉ NR ₅ and Fullerene Derivative C ₆₀ NAr ₅ with a Pyridine Moiety on the Cage Skeleton. Organic Letters, 2016, 18, 2236-2239.	4.6	16
30	Fullerene-Based Macro-Heterocycle Prepared through Selective Incorporation of Three N and Two O Atoms into C ₆₀ . Angewandte Chemie, 2016, 128, 14810-14814.	2.0	9
31	Fullerene-Based Macro-Heterocycle Prepared through Selective Incorporation of Three N and Two O Atoms into C ₆₀ . Angewandte Chemie - International Edition, 2016, 55, 14590-14594.	13.8	27
32	Front Cover: Synthesis of Isomerically Pure Multi-aniline C ₆₀ Adducts with Cyclopentadienyl Addition Pattern (Eur. J. Org. Chem. 18/2016). European Journal of Organic Chemistry, 2016, 2016, 3013-3013.	2.4	0
33	Innenr¼cktitelbild: Fullerene-Based Macro-Heterocycle Prepared through Selective Incorporation of Three N and Two O Atoms into C ₆₀ (Angew. Chem. 47/2016). Angewandte Chemie, 2016, 128, 15095-15095.	2.0	0
34	Release of the Water Molecule Encapsulated Inside an Open-Cage Fullerene through Hydrogen Bonding Mediated by Hydrogen Fluoride. Chemistry - A European Journal, 2015, 21, 13539-13543.	3.3	16
35	Peroxide-Mediated Selective Cleavage of [60]Fullerene Skeleton Bonds: Towards the Synthesis of Open-Cage Fulleroïd C ₅₅ O ₅ . Chemical Record, 2015, 15, 189-198.	5.8	34
36	<i>i</i> -N-Fluorobenzenesulfonimide Based Functionalization of C ₆₀ . Organic Letters, 2015, 17, 524-527.	4.6	24

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37	Synthesis and Chemical Reactivity of Tetrahydro[60]fullerene Epoxides with Both Amino and Aryl Addends. <i>Journal of Organic Chemistry</i> , 2015, 80, 3957-3964.	3.2	3
38	Open-cage fullerene with a stopper acts as a molecular vial for a single water molecule. <i>Organic Chemistry Frontiers</i> , 2015, 2, 1500-1504.	4.5	12
39	Near-Infrared Absorbing Compounds Based on π -Extended Tetrathiafulvalene Open-Cage Fullerenes. <i>Journal of Organic Chemistry</i> , 2014, 79, 2156-2162.	3.2	19
40	Aniline Induced Domino Ring Contraction Process on the Rim of an Open-Cage Fullerene with Carbonyl, Imino and lactone Moieties. <i>Chinese Journal of Chemistry</i> , 2014, 32, 819-821.	4.9	2
41	A green fullerene derivative as a fluoride ion sensor. <i>Organic Chemistry Frontiers</i> , 2014, 1, 652.	4.5	11
42	Selective Addition of Secondary Amines to C_{60} : Formation of Penta- and Hexaamino[60]fullerenes. <i>Journal of Organic Chemistry</i> , 2014, 79, 8912-8916.	3.2	21
43	Synthesis of Open-cage Fullerenes with 4-Alkynylphenyl Groups on the Rim of the Orifice. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 54-60.	2.1	3
44	Salts of $C_{60}(OH)_8$ Electrodeposited onto a Glassy Carbon Electrode: Surprising Catalytic Performance in the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10867-10870.	13.8	98
45	Regioselective Diels-Alder Reactions Directed by Carbonyl Groups on the Rim of Open-Cage Fullerene Derivatives. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 7272-7276.	2.4	7
46	Open-cage fullerenes as tailor-made container for a single water molecule. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 766-772.	1.9	66
47	Synthesis of $C_{60}(O)_3$: An Open-Cage Fullerene with a Ketolactone Moiety on the Orifice. <i>Journal of Organic Chemistry</i> , 2013, 78, 1157-1162.	3.2	28
48	Molecular containers with a dynamic orifice: open-cage fullerenes capable of encapsulating either H_2O or H_2 under mild conditions. <i>Chemical Science</i> , 2013, 4, 814-818.	7.4	29
49	Synthesis of an Azahomoazafullerene $C_{59}N(NH)R$ and Gas-Phase Formation of the Diazafullerene $C_{58}N_2$. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5037-5040.	13.8	29
50	Punching a Carbon Atom of C_{60} into its Own Cavity to Form an Endohedral Complex $CO@C_{59}O_6$ under Mild Conditions. <i>Chemistry - A European Journal</i> , 2013, 19, 16545-16549.	3.3	35
51	Synthesis of a green [60]fullerene derivative through cage-opening reactions. <i>Chemical Communications</i> , 2012, 48, 2531.	4.1	16
52	Head-to-Tail and Back-to-Back Dimerization of an Open-Cage Fullerene Derivative through π - π Interaction-Based Self-Assembly. <i>Organic Letters</i> , 2012, 14, 4002-4005.	4.6	22
53	Facile preparation of fullerenyl boronic esters. <i>Tetrahedron</i> , 2012, 68, 5193-5196.	1.9	4
54	Selective Synthesis of Fullerenol Derivatives with Terminal Alkyne and Crown Ether Addends. <i>Journal of Organic Chemistry</i> , 2012, 77, 2456-2462.	3.2	16

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55	Fullerene Doping: Preparation of Azafullerene C ₅₉ NH and Oxafulleroids C ₅₉ O ₃ and C ₆₀ O ₄ . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6163-6166.	13.8	39
56	Synthesis of decahydropyrrolo[2,1,5-cd]indolizine derivatives through RuCl ₃ /AgOTf induced alkene-alkene and alkene-arene double cycloisomerizations. <i>Tetrahedron</i> , 2012, 68, 152-158.	1.9	8
57	Heating a bowl of single-molecule-soup: structure and desorption energetics of water-encapsulated open-cage [60] fullerene anions in the gas-phase. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9818.	2.8	31
58	Bromination-Mediated Regioselective Preparation of Cyclopentadienyl-Type [60]Fullerene Derivatives with Alkoxy, Peroxy, and Bromo or Hydro Addends. <i>Journal of Organic Chemistry</i> , 2011, 76, 1735-1741.	3.2	10
59	Preparation of a 12-Membered Open-Cage Fullerendione through Silane/Borane-Promoted Formation of Ketal Moieties and Oxidation of a Vicinal Fullerendiol. <i>Journal of Organic Chemistry</i> , 2011, 76, 6743-6748.	3.2	8
60	Synthesis of 18-Membered Open-Cage Fullerenes through Controlled Stepwise Fullerene Skeleton Bond Cleavage Processes and Substituent-Mediated Tuning of the Redox Potential of Open-Cage Fullerenes. <i>Journal of Organic Chemistry</i> , 2011, 76, 10148-10153.	3.2	17
61	Assembly of Janus fullerene: a novel approach to prepare rich carbon structures. <i>Journal of Materials Chemistry</i> , 2011, 21, 14864.	6.7	13
62	Synthesis of fullerene multiadducts with mixed oxygen and nitrogen addends including five secondary amino groups. <i>Tetrahedron Letters</i> , 2011, 52, 5805-5807.	1.4	4
63	Preparation of Ketolactone and Bis lactone [60]Fullerene Derivatives and Their Conversion into Open-Cage Fullerenes with a 12- or 15-Membered Orifice. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5366-5373.	2.4	9
64	The Chemistry of Open-Cage Fullerene, Hydroxylamine Mediated Hole-Closing and -Opening Reactions. <i>Chinese Journal of Chemistry</i> , 2010, 28, 1673-1677.	4.9	5
65	Preparation of Open-Cage Fullerenes and Incorporation of Small Molecules Through Their Orifices. <i>Advanced Materials</i> , 2010, 22, 1498-1507.	21.0	86
66	Facile Synthesis of Isomerically Pure Fullerenols and Formation of Spherical Aggregates from C ₆₀ (OH) ₈ . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5293-5295.	13.8	75
67	Switchable Open-Cage Fullerene for Water Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9935-9938.	13.8	77
68	Fullerenyl azide: synthesis and reactivity. <i>Tetrahedron Letters</i> , 2010, 51, 415-417.	1.4	8
69	Synthesis and Reactivity of 2H-Pyran Moiety in [60]Fullerene Cage Skeleton. <i>Journal of Organic Chemistry</i> , 2010, 75, 4567-4573.	3.2	11
70	Carving two adjacent holes on [60]fullerene through two consecutive epoxide to diol to dione transformations. <i>Chemical Communications</i> , 2010, 46, 8365.	4.1	17
71	Efficient Cage-Opening Cascade Process for the Preparation of Water-Encapsulated [60]Fullerene Derivatives. <i>Organic Letters</i> , 2009, 11, 2772-2774.	4.6	44
72	Synthesis of Fullerene Oxides Containing Both 6,6-Closed Epoxide and 5,6-Open Ether Moieties through Thermolysis of Fullerene Peroxides. <i>Journal of Organic Chemistry</i> , 2009, 74, 3528-3531.	3.2	15

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73	Fabrication of Low-Dimension Nanostructures Based on Organic Conjugated Molecules. <i>Advanced Materials</i> , 2008, 20, 2918-2925.	21.0	102
74	Preparation of fullereneol, fullerenone, and aminofullerene derivatives through selective cleavage of fullerene C-H, C-C, C-N, and C-O bonds in fullerene-mixed peroxide derivatives. <i>Tetrahedron</i> , 2008, 64, 11394-11403.	1.9	11
75	Reactivity of Fullerene Epoxide: Preparation of Fullerene-Fused Thiirane, Tetrahydrothiazolidin-2-one, and 1,3-Dioxolane. <i>Journal of Organic Chemistry</i> , 2008, 73, 2518-2526.	3.2	32
76	Switched role of fullerene in the Diels-Alder reaction: facile addition of dienophiles to the conjugated fullerenediene moiety. <i>Chemical Communications</i> , 2008, , 401-403.	4.1	11
77	Preparation of Azafullerene Derivatives from Fullerene-Mixed Peroxides and Single Crystal X-ray Structures of Azafulleroid and Azafullerene. <i>Journal of the American Chemical Society</i> , 2008, 130, 12614-12615.	13.7	51
78	Controlled regio- and chemoselective addition of isothiocyanate to the dione moiety of a cage-opened fullerene-mixed peroxide derivative. <i>Chemical Communications</i> , 2008, , 1980.	4.1	6
79	Towards the Rational Synthesis of Norfullerenes. Controlled Deletion of One Carbon Atom from C60 and Preparation of 2,5,9-Trioxo-1-nor(C60-Ih)[5,6]fullerene C59(O)3 Derivatives. <i>Organic Letters</i> , 2008, 10, 2003-2006.	4.6	19
80	Synthesis of [59]Fullerenones through Peroxide-Mediated Stepwise Cleavage of Fullerene Skeleton Bonds and X-ray Structures of Their Water-Encapsulated Open-Cage Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 16149-16162.	13.7	114
81	From Fullerene-Mixed Peroxide to Open-Cage Oxafulleroid C59(O)3(OH)2(OOtBu)2 Embedded with Furan and Lactone Motifs. <i>Organic Letters</i> , 2007, 9, 1741-1743.	4.6	25
82	Amination of [60]Fullerene by Ammonia and by Primary and Secondary Aliphatic Amines Preparation of Amino[60]fullerene Peroxides. <i>Chemistry - A European Journal</i> , 2007, 13, 1129-1141.	3.3	33
83	Efficient conversion of bromofullerene to alkoxyfullerenes through either homolytic or heterolytic cleavage of C60-Br bond. <i>Tetrahedron</i> , 2007, 63, 9120-9123.	1.9	11
84	Boomerang-Type Substitution Reaction: Reactivity of Fullerene Epoxides and a Halofullerenol. <i>Chemistry - an Asian Journal</i> , 2007, 2, 290-300.	3.3	10
85	Lewis Acid Promoted Preparation of Isomerically Pure Fullerenols from Fullerene Peroxides C60(OOt-Bu)6 and C60(O)(OOt-Bu)6. <i>Journal of Organic Chemistry</i> , 2006, 71, 4374-4382.	3.2	26
86	Fullerene peroxides in cage-opening reactions. <i>Pure and Applied Chemistry</i> , 2006, 78, 841-845.	1.9	15
87	Construction of diads and triads copolymer systems containing perylene, porphyrin, and/or fullerene blocks. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5863-5874.	2.3	22
88	Fullerene peroxides. <i>Comptes Rendus Chimie</i> , 2006, 9, 1001-1004.	0.5	20
89	Preparation of Fullerendione through Oxidation of Vicinal Fullerendiol and Intramolecular Coupling of the Dione To Form Hemiketal/Ketal Moieties. <i>Organic Letters</i> , 2006, 8, 277-279.	4.6	47
90	Preparation of [5,6]- and [6,6]-Oxahomofullerene Derivatives and Their Interconversion by Lewis Acid Assisted Reactions of Fullerene Mixed Peroxides. <i>Chemistry - A European Journal</i> , 2005, 11, 5449-5456.	3.3	45

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91	Regiochemistry of [70]Fullerene: Preparation of C70(OOtBu) _n (n= 2, 4, 6, 8, 10) through Both Equatorial and Cyclopentadienyl Addition Modes. <i>Journal of Organic Chemistry</i> , 2005, 70, 2060-2066.	3.2	68
92	Iodo-Controlled Selective Formation of Pyrrolidino[60]fullerene and Aziridino[60]fullerene from the Reaction between C60 and Amino Acid Esters. <i>Journal of Organic Chemistry</i> , 2004, 69, 5800-5802.	3.2	44
93	Selective Preparation of Oxygen-Rich [60]Fullerene Derivatives by Stepwise Addition of tert-Butylperoxy Radical and Further Functionalization of the Fullerene Mixed Peroxides. <i>Journal of Organic Chemistry</i> , 2004, 69, 2442-2453.	3.2	70
94	Acylation of 2,5-Dimethoxycarbonyl[60]fulleropyrrolidine and Synthesis of Its Multifullerene Derivatives. <i>Journal of Organic Chemistry</i> , 2002, 67, 883-891.	3.2	22
95	Fullerenes as a tert-Butylperoxy Radical Trap, Metal Catalyzed Reaction of tert-Butyl Hydroperoxide with Fullerenes, and Formation of the First Fullerene Mixed Peroxides C60(O)(OOtBu) ₄ and C70(OOtBu) ₁₀ . <i>Journal of the American Chemical Society</i> , 2002, 124, 13384-13385.	13.7	186
96	A Novel [2 + 3] Cycloaddition Reaction: Singlet Oxygen Mediated Formation of 1,3-Dipole from Iminodiacetic Acid Dimethyl Ester and Its Addition to Maleimides. <i>Journal of Organic Chemistry</i> , 2001, 66, 6369-6374.	3.2	25
97	Fullerene-Sensitized [2 + 3] Cycloaddition between Maleimides and Iminodiacetic Ester: Formation of Pyrrolidine Derivatives. <i>Organic Letters</i> , 2000, 2, 667-669.	4.6	20
98	Microcavity Effect from a Novel Terbium Complex Langmuir-Blodgett Film. <i>Advanced Materials</i> , 1999, 11, 627-629.	21.0	21
99	Microelectrode Voltammetry for the Study of Pyrrolidinofullerenes. <i>Electroanalysis</i> , 1999, 11, 238-242.	2.9	6
100	Cyclic Voltammetry Study of the C60-EDTA Derivative Films. <i>Electroanalysis</i> , 1999, 11, 582-585.	2.9	3
101	Synthesis of Pyrrolidine Ring-Fused Fullerene Multicarboxylates by Photoreaction. <i>Journal of Organic Chemistry</i> , 1998, 63, 4240-4247.	3.2	83
102	Synthesis of Fullerene Amino Acid Derivatives by Direct Interaction of Amino Acid Ester with C60. <i>Journal of Organic Chemistry</i> , 1996, 61, 1954-1961.	3.2	129
103	Mass spectroscopic characterization of yttrium-containing metallofullerene YC82 using resonant laser ablation. <i>AIP Conference Proceedings</i> , 1995, , .	0.4	0
104	Synthesis of Open-Cage Fullerenes with Pyrrole, Pyrrolone, Pyridinone, Iminofuran, and Pyranone Fragments Embedded on the Rim of the Orifice. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	3