

Alexey A Goryunkov

List of Publications by Year in descending order

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docs citations

101
times ranked

790
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation of C ₆₀ (CF ₃) _n (n = 2, 4, 6, 8, 10) with high compositional purity. Journal of Fluorine Chemistry, 2003, 124, 61-64.	0.9	92
2	Fusing Pentagons in a Fullerene Cage by Chlorination: IPR C ₂ â€C ₇₆ Rearranges into nonâ€IPR C ₇₆ Cl ₂₄ . Angewandte Chemie - International Edition, 2009, 48, 5904-5907.	7.2	78
3	Synthesis, Characterization, and Theoretical Study of Stable Isomers of C ₇₀ (CF ₃) _n (n = 2, 4, 6, 8, 10). Chemistry - A European Journal, 2006, 12, 3876-3889.	1.7	77
4	Synthesis, Structure, and Theoretical Study of Lower Trifluoromethyl Derivatives of [60]Fullerene. European Journal of Organic Chemistry, 2007, 2007, 5082-5094.	1.2	59
5	C ₇₄ F ₃₈ : An Exohedral Derivative of a Small-Bandgap Fullerene with D ₃ Symmetry. Angewandte Chemie - International Edition, 2004, 43, 997-1000.	7.2	51
6	Preparation, crystallographic characterization and theoretical study of C ₇₀ (CF ₃) ₁₆ and C ₇₀ (CF ₃) ₁₈ . Chemical Communications, 2006, , 2463.	2.2	45
7	Preparation, crystallographic characterization and theoretical study of two isomers of C ₇₀ (CF ₃) ₁₂ . Chemical Communications, 2006, , 1778.	2.2	44
8	Crystal and molecular structures of C ₇₀ (CF ₃) ₈ â€PhMe. Mendeleev Communications, 2005, 15, 225-227.	0.6	43
9	Higher trifluoromethylated derivatives of C ₆₀ , C ₆₀ (CF ₃) ₁₆ and C ₆₀ (CF ₃) ₁₈ . Journal of Fluorine Chemistry, 2007, 128, 545-551.	0.9	43
10	Groundâ€State Interaction and Electrical Doping of Fluorinated C ₆₀ in Conjugated Polymers. Advanced Materials, 2009, 21, 4456-4460.	11.1	41
11	Synthesis of Rationally Halogenated Buckybowls by Chemoselective Aromatic Câ€F Bond Activation. Angewandte Chemie - International Edition, 2017, 56, 4834-4838.	7.2	37
12	New trifluoromethylated derivatives of [60]fullerene, C ₆₀ (CF ₃) _n with n = 12 and 14. Chemical Communications, 2007, , 4794.	2.2	36
13	In situ synthesis and characterization of fullerene derivatives by Knudsen-cell mass spectrometry. International Journal of Mass Spectrometry, 2003, 228, 807-824.	0.7	34
14	Preparation, Crystallographic Characterization, and Theoretical Study of C ₇₀ (CF ₃) ₁₄ . European Journal of Organic Chemistry, 2006, 2006, 2508-2512.	1.2	34
15	Dry Functionalization and Doping of Single-Walled Carbon Nanotubes by Ozone. Journal of Physical Chemistry C, 2015, 119, 27821-27828.	1.5	34
16	Reaction of silver(I) and (II) fluorides with C ₆₀ : thermodynamic control over fluorination level. Journal of Fluorine Chemistry, 2001, 112, 191-196.	0.9	30
17	Synthesis, structures and reactivity of polyhalo[60]fullerenes. Russian Chemical Reviews, 2007, 76, 289-312.	2.5	29
18	Structure of 1,4,10,19,25,41-C ₇₀ (CF ₃) ₆ , isomer with unique arrangement of addends. Journal of Fluorine Chemistry, 2006, 127, 1344-1348.	0.9	28

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19	Synthesis and characterization of difluoromethylene-homo[60]fullerene, C ₆₀ (CF ₂). Chemical Communications, 2007, , 374-376.	2.2	28
20	Synthesis, Structure, and Theoretical Study of Trifluoromethyl Derivatives of C ₈₄ (22) Fullerene. Chemistry - A European Journal, 2013, 19, 578-587.	1.7	28
21	Rebuilding C ₆₀ : Chlorination-Promoted Transformations of the Buckminsterfullerene into Pentagon-Fused C ₆₀ Derivatives. Inorganic Chemistry, 2018, 57, 8325-8331.	1.9	28
22	Trifluoromethylated [60]Fullerenes: Synthesis and Characterization. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 181-185.	1.0	25
23	Preparation and structures of [6,6]-open difluoromethylene[60]fullerenes: C ₆₀ (CF ₂) and C ₆₀ (CF ₂) ₂ . Dalton Transactions, 2007, , 5322.	1.6	24
24	p -type doping in organic light emitting diodes based on fluorinated C ₆₀ . Journal of Applied Physics, 2008, 104, .	1.1	24
25	Synthesis, Structure, and Theoretical Study of Trifluoromethyl Derivatives of C ₈₄ (23) Fullerene. Chemistry - A European Journal, 2013, 19, 11707-11716.	1.7	24
26	From Corannulene to Indacenopicene: Effect of Carbon Framework Topology on Aromaticity and Reduction Limits. Organometallics, 2016, 35, 3105-3111.	1.1	24
27	Regioselective synthesis and crystal structure of C ₇₀ (CF ₃) ₁₀ [C(CO ₂ Et) ₂]. New Journal of Chemistry, 2008, 32, 89-93.	1.4	22
28	Trifluoromethylation of Fullerenes: Kinetic and Thermodynamic Control. Journal of Physical Chemistry A, 2013, 117, 13009-13017.	1.1	22
29	Saturated vapor pressure and sublimation enthalpy of C ₆₀ F ₁₈ . Journal of Chemical Thermodynamics, 2002, 34, 57-61.	1.0	21
30	Reaction of C ₆₀ with KMnF ₄ . Journal of Fluorine Chemistry, 2006, 127, 1423-1435.	0.9	20
31	Electrochemical, ESR and theoretical studies of [6,6]-opened C ₆₀ (CF ₂), cis-2-C ₆₀ (CF ₂) ₂ and their anions. Dalton Transactions, 2008, , 6886.	1.6	20
32	Mass spectrometric studies of trifluoromethylated fullerenes. International Journal of Mass Spectrometry, 2006, 251, 16-22.	0.7	19
33	[6,6]-Open and [6,6]-Closed Isomers of C ₇₀ (CF ₂) ₂ : Synthesis, Electrochemical and Quantum Chemical Investigation. Chemistry - A European Journal, 2013, 19, 17969-17979.	1.7	19
34	Green and rapid preparation of long-term stable aqueous dispersions of fullerenes and endohedral fullerenes: The pros and cons of an ultrasonic probe. Ultrasonics Sonochemistry, 2021, 73, 105533.	3.8	19
35	Raman, Infrared, and Theoretical Studies of Fluorofullerene C ₆₀ F ₂₀ . Journal of Physical Chemistry A, 2004, 108, 11449-11456.	1.1	18
36	Synthesis and molecular structure of 1,6,11,16,18,24,27,36-C ₆₀ (CF ₃) ₈ . Mendeleev Communications, 2007, 17, 110-112.	0.6	18

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37	New C ₇₀ (CF ₃) _n isomers (n = 12, 14, 16). Realkylation and addend rearrangements. Russian Chemical Bulletin, 2009, 58, 1146-1154.	0.4	18
38	Transalkylation of Higher Trifluoromethylated Fullerenes with C ₇₀ : A Pathway to New Addition Patterns of C ₇₀ (CF ₃) ₈ . Chemistry - A European Journal, 2014, 20, 1126-1133.	1.7	18
39	ISOLATION AND CHARACTERISATION OF C ₆₀ (CF ₃) ₂ . Fullerenes Nanotubes and Carbon Nanostructures, 2002, 10, 235-241.	1.0	17
40	The formation of long-lived fluorofullerene dianions by direct electrospray ionization. Chemical Physics Letters, 2005, 405, 93-96.	1.2	17
41	The former "C ₆₀ F ₁₆ " is actually a double-caged adduct: (C ₆₀ F ₁₆)(C ₆₀). Chemical Communications, 2007, 704-706.	2.2	17
42	Diastereoselective lithium salt-assisted 1,3-dipolar cycloaddition of azomethine ylides to the fullerene C ₆₀ . Tetrahedron, 2010, 66, 3037-3041.	1.0	16
43	Unexpected fullerene dimerization via [5,6]-bond upon functionalization of C _s -C ₇₀ (CF ₃) ₈ by the Bingel reaction. Dalton Transactions, 2011, 40, 959-965.	1.6	16
44	Synthesis of Rationally Halogenated Buckybowls by Chemoselective Aromatic C-F Bond Activation. Angewandte Chemie, 2017, 129, 4912-4916.	1.6	16
45	High resolution and low-temperature photoelectron spectroscopy of an oxygen-linked fullerene dimer dianion: C ₁₂₀ O ₂ ²⁻ . Journal of Chemical Physics, 2008, 128, 114307.	1.2	15
46	Electron affinities of [5,6]-open and [5,6]-closed adducts of trifluoromethylfullerene C _s -C ₇₀ (CF ₃) ₈ : even one bond matters!. Electrochimica Acta, 2016, 191, 980-986.	2.6	15
47	Regioselective near-equatorial chlorination of C _s -C ₇₀ (CF ₃) ₈ . New Journal of Chemistry, 2011, 35, 32-35.	1.4	14
48	S ₆ Isomer of C ₆₀ (CF ₃) ₁₂ : Synthesis, properties and thermodynamic functions. Journal of Chemical Thermodynamics, 2013, 66, 59-64.	1.0	14
49	Alkylated [6,6]-open difluoromethanofullerenes C ₆₀ (CF ₂) _R ₂ : Facile synthesis, electrochemical behavior and photovoltaic applications. Electrochimica Acta, 2016, 219, 130-142.	2.6	14
50	Reductive Hydrogenation of C _s -C ₇₀ (CF ₃) ₈ and C ₁ -C ₇₀ (CF ₃) ₁₀ . Chemistry - an Asian Journal, 2016, 11, 1945-1954.	1.7	14
51	Isolation and structural characterization of the most highly trifluoromethylated C ₇₀ fullerenes: C ₇₀ (CF ₃) ₁₈ and C ₇₀ (CF ₃) ₂₀ . New Journal of Chemistry, 2013, 37, 299-302.	1.4	13
52	Lower trifluoromethyl[70]fullerene derivatives: novel structural data and an survey of electronic properties. Electrochimica Acta, 2017, 255, 472-481.	2.6	13
53	Alkali-Metal Trichloroacetates for Dichloromethylenation of Fullerenes: Nucleophilic Addition-Substitution Route. Chemistry - an Asian Journal, 2014, 9, 915-923.	1.7	12
54	The first representative of a new family of the bridgehead-modified difluoromethylenated homofullerenes: electrochemical properties and synthetic availability. Electrochimica Acta, 2015, 174, 143-154.	2.6	12

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55	Fused Pentagon Isomers of C ₆₀ Fullerene Isolated as Chloro and Trifluoromethyl Derivatives. Chemistry - A European Journal, 2020, 26, 2338-2341.	1.7	12
56	Synthesis and structures of trifluoromethyl derivatives of fullerenes C ₈₄ (16) and C ₈₄ (18). Russian Chemical Bulletin, 2014, 63, 2657-2667.	0.4	11
57	Synthesis, structure and theoretical study of mixed fluoro-trifluoromethyl derivatives of C ₆₀ . Molecular structures of C ₆₀ F ₁₈ (CF ₃) ₆ and C ₆₀ F ₁₆ (CF ₃) ₆ . Dalton Transactions, 2008, , 2627.	1.6	10
58	The enthalpy of formation of fullerene fluoride C ₆₀ F ₁₈ and the C-F bond energy. Russian Journal of Physical Chemistry A, 2007, 81, 1560-1564.	0.1	9
59	New isomers of trifluoromethylated fullerene: C ₆₀ (CF ₃) ₁₂ and C ₆₀ (CF ₃) ₁₄ . Russian Chemical Bulletin, 2008, 57, 2526-2534.	0.4	9
60	Stepwise Regioselective Hydrogenation of <i>cis</i> -C ₆₀ (CF ₂) ₂ Homofullerene with [6,6]-Open/Closed Valence Tautomerism. Chemistry - A European Journal, 2016, 22, 15485-15490.	1.7	9
61	CF ₂ -Functionalized Trifluoromethylated Fullerene C ₇₀ (CF ₃) ₈ (CF ₂): Structure, Electronic Properties, and Spontaneous Oxidation at the Bridgehead Carbon Atoms. Asian Journal of Organic Chemistry, 2019, 8, 1924-1932.	1.3	9
62	Synthesis, X-ray Structure and Mass Spectrum of Cs-C ₆₀ (CF ₃) ₆ . Mendeleev Communications, 2012, 22, 297-298.	0.6	8
63	Magnetic Coupling and Optical Properties of the <i>S</i> -C ₆₀ -Dodecakis(trifluoromethyl)fullerene Radical Anions in the Layered Salt (PPN) ⁺ [C ₆₀ (CF ₃) ₁₂] ⁻ . Chemistry - A European Journal, 2014, 20, 5380-5387.	1.7	8
64	Negatively charged singly-bonded dimers of C ₁ -[C ₇₀ (CF ₃) ₁₀] and bare C ₇₀ fullerene. New Journal of Chemistry, 2019, 43, 2726-2733.	1.4	8
65	Fabrication and characterization of MWCNT/natural Azerbaijani bentonite electroconductive ceramic composites. Journal of Composite Materials, 2019, 53, 3909-3923.	1.2	8
66	Addition of CF ₂ group to endohedral fullerene Sc ₃ N@I _h -C ₈₀ . Dalton Transactions, 2020, 49, 9137-9147.	1.6	8
67	Tightly Bound Double-Caged [60]Fullerene Derivatives with Enhanced Solubility: Structural Features and Application in Solar Cells. Chemistry - an Asian Journal, 2017, 12, 1075-1086.	1.7	7
68	Alkali metal trifluoroacetates for the nucleophilic trifluoromethylation of fullerenes. Journal of Fluorine Chemistry, 2019, 226, 109344.	0.9	7
69	Computational Study of Structure and Thermochemistry of Some Endo- and Exohedral Fullerene Derivatives. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 169-173.	1.0	6
70	C ₆₀ fluorination with rare earth metal tetrafluorides: an extreme PrF ₄ case. Mendeleev Communications, 2006, 16, 159-161.	0.6	6
71	Pyrrrolizidine and cyclobutane bridged double-caged fullerene derivatives. New Journal of Chemistry, 2013, 37, 804.	1.4	6
72	Orienting Effect of the Cage Addends: The Case of Nucleophilic Cyclopropanation of <i>C</i> -C ₇₀ (CF ₃) ₈ . Chemistry - an Asian Journal, 2015, 10, 1370-1378.	1.7	6

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73	Facile Separation, Spectroscopic Identification, and Electrochemical Properties of Higher Trifluoromethylated Derivatives of [70]Fullerene. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1920-1931.	1.7	6
74	Electronic Communication between S= 1/2 Spins in Negatively charged Double-caged Fullerene C ₆₀ Derivative Bonded by Two Single Bonds and Pyrrolizidine Bridge. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1958-1964.	1.7	6
75	Dissociative Electron Attachment to 2,3,6,7,10,11-Hexabromotriphenylene. <i>Journal of Physical Chemistry A</i> , 2020, 124, 690-694.	1.1	6
76	Differences in electronic properties of fluorinated and trifluoromethylated fullerenes revealed by their propensity for dianion formation. <i>Journal of Chemical Physics</i> , 2006, 124, 144306.	1.2	5
77	Double-caged fullerene acceptors: effect of alkyl chain length on photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3278-3285.	2.7	5
78	<i>Para</i> -C ₆₀ (CF ₂)(CF ₃)R: a family of chiral electron accepting compounds accessible through a facile one-pot synthesis. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5147-5150.	1.2	5
79	Chemiluminescence upon the oxidation of fullerene fluorides C ₆₀ F _x (x = 18, 36, 48) with ozone in solution. <i>Russian Chemical Bulletin</i> , 2010, 59, 1843-1845.	0.4	4
80	Regioselective Synthesis of [6,6]-Open and [5,6]-Closed C ₇₀ (CF ₃) ₈ [CH ₂] ₂ Methanofullerenes with Rapid [6,6]-to-[5,6] Phototransformation. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 750-758.	1.2	4
81	Electrochemically Induced Dimerization of <i>p</i> -C ₇₀ (CF ₃) ₁₂ Trifluoromethylated Fullerene. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7876-7883.	1.1	4
82	Intermediate Products of C ₆₀ High-Temperature Chlorination C_{60}Cl_n (n = 8, 10, 14, 20, 24). <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6801-6804.	1.2	4
83	Regioselective CF ₂ functionalization of Sc ₃ N@D _{3h} (5)-C ₇₈ . <i>Dalton Transactions</i> , 2022, 51, 1182-1190.	1.6	4
84	Difluoromethylenation of fullerene C ₇₀ provides isomeric diversity and availability of equatorial [5,6]-homofullerene C ₇₀ (CF ₂). <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16816-16826.	1.3	4
85	Regioselective Mono- and Dialkylation of [6,6]-open C ₆₀ (CF ₂): Synthetic and Kinetic Aspects. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1701-1708.	1.7	3
86	Synthesis, Structure, and Theoretical Study of Trifluoromethyl Derivatives of the IPR Isomer of C ₈₄ Fullerene, C ₈₄ (11)(CF ₃) _{10,12,14} . <i>ChemistrySelect</i> , 2022, 7, .	0.7	3
87	Negative Ions of Trifluoromethyl Fullerene Derivatives: First Thermodynamic Data. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005, 12, 201-207.	1.0	2
88	History of the V.F. Luginin Thermal Laboratory. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 2101-2107.	0.1	2
89	Structure of C ₆₀ F ₃₆ : A Gas-Phase Electron Diffraction and Quantum Chemical Computational Study of a Remarkably Distorted Fluorofullerene. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10216-10224.	1.1	1
90	Silver ion-assisted substitutive fluorination of chlorofullerenes. <i>Journal of Fluorine Chemistry</i> , 2020, 237, 109598.	0.9	1

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91	Dissociative Electron Attachment to Hexachlorobenzene. ChemPhysChem, 2022, 23, .	1.0	1
92	C74F38: An Exohedral Derivative of a Small-Bandgap Fullerene with D3 Symmetry.. ChemInform, 2004, 35, no.	0.1	0
93	In situ Synthesis and Characterization of Fullerene Derivatives by Knudsen-Cell Mass Spectrometry. ChemInform, 2004, 35, no.	0.1	0