

Alexey A Goryunkov

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9317131/alexey-a-goryunkov-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88
papers

1,460
citations

22
h-index

32
g-index

101
ext. papers

1,603
ext. citations

4.2
avg, IF

3.87
L-index

#	Paper	IF	Citations
88	Isolation of C ₆₀ (CF ₃) _n (n = 2, 4, 6, 8, 10) with high compositional purity. <i>Journal of Fluorine Chemistry</i> , 2003 , 124, 61-64	2.1	85
87	Synthesis, characterization, and theoretical study of stable isomers of C ₇₀ (CF ₃) _n (n = 2, 4, 6, 8, 10). <i>Chemistry - A European Journal</i> , 2006 , 12, 3876-89	4.8	72
86	Fusing pentagons in a fullerene cage by chlorination: IPR D ₂ -C ₇₆ rearranges into non-IPR C ₇₆ Cl ₂₄ . <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5904-7	16.4	71
85	Synthesis, Structure, and Theoretical Study of Lower Trifluoromethyl Derivatives of [60]Fullerene. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 5082-5094	3.2	51
84	C ₇₄ F ₃₈ : an exohedral derivative of a small-bandgap fullerene with D ₃ symmetry. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 997-1000	16.4	48
83	Preparation, crystallographic characterization and theoretical study of C ₇₀ (CF ₃) ₁₆ and C ₇₀ (CF ₃) ₁₈ . <i>Chemical Communications</i> , 2006 , 2463-5	5.8	43
82	Preparation, crystallographic characterization and theoretical study of two isomers of C ₇₀ (CF ₃) ₁₂ . <i>Chemical Communications</i> , 2006 , 1778-80	5.8	40
81	Crystal and molecular structures of C ₇₀ (CF ₃) ₈ PhMe. <i>Mendeleev Communications</i> , 2005 , 15, 225-227	1.9	40
80	Higher trifluoromethylated derivatives of C ₆₀ , C ₆₀ (CF ₃) ₁₆ and C ₆₀ (CF ₃) ₁₈ . <i>Journal of Fluorine Chemistry</i> , 2007 , 128, 545-551	2.1	39
79	Ground-State Interaction and Electrical Doping of Fluorinated C ₆₀ in Conjugated Polymers. <i>Advanced Materials</i> , 2009 , 21, 4456-4460	24	38
78	New trifluoromethylated derivatives of [60]fullerene, C ₆₀ (CF ₃) _n with n = 12 and 14. <i>Chemical Communications</i> , 2007 , 4794-6	5.8	30
77	Preparation, Crystallographic Characterization, and Theoretical Study of C ₇₀ (CF ₃) ₁₄ . <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 2508-2512	3.2	30
76	Dry Functionalization and Doping of Single-Walled Carbon Nanotubes by Ozone. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27821-27828	3.8	29
75	In situ synthesis and characterization of fullerene derivatives by Knudsen-cell mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003 , 228, 807-824	1.9	29
74	Reaction of silver(I) and (II) fluorides with C ₆₀ : thermodynamic control over fluorination level. <i>Journal of Fluorine Chemistry</i> , 2001 , 112, 191-196	2.1	27
73	Synthesis of Rationally Halogenated Buckybowls by Chemoselective Aromatic C-F Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4834-4838	16.4	25
72	Synthesis, structure, and theoretical study of trifluoromethyl derivatives of C ₈₄ (22) fullerene. <i>Chemistry - A European Journal</i> , 2013 , 19, 578-87	4.8	25

71	Synthesis and characterization of difluoromethylene-homo[60]fullerene, C ₆₀ (CF ₂). <i>Chemical Communications</i> , 2007 , 374-6	5.8	25
70	Structure of 1,4,10,19,25,41-C ₇₀ (CF ₃) ₆ , isomer with unique arrangement of addends. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1344-1348	2.1	25
69	Trifluoromethylated [60]Fullerenes: Synthesis and Characterization. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 181-185	1.8	24
68	p-type doping in organic light emitting diodes based on fluorinated C ₆₀ . <i>Journal of Applied Physics</i> , 2008 , 104, 124505	2.5	23
67	Synthesis, structures and reactivity of polyhalo[60]fullerenes. <i>Russian Chemical Reviews</i> , 2007 , 76, 289-3128	3.28	22
66	Regioselective synthesis and crystal structure of C ₇₀ (CF ₃) ₁₀ [C(CO ₂ Et) ₂]. <i>New Journal of Chemistry</i> , 2008 , 32, 89-93	3.6	21
65	Rebuilding C: Chlorination-Promoted Transformations of the Buckminsterfullerene into Pentagon-Fused C Derivatives. <i>Inorganic Chemistry</i> , 2018 , 57, 8325-8331	5.1	20
64	Synthesis, structure, and theoretical study of trifluoromethyl derivatives of C ₈₄ (23) fullerene. <i>Chemistry - A European Journal</i> , 2013 , 19, 11707-16	4.8	20
63	Preparation and structures of [6,6]-open difluoromethylene[60]fullerenes: C ₆₀ (CF ₂) and C ₆₀ (CF ₂) ₂ . <i>Dalton Transactions</i> , 2007 , 5322-8	4.3	20
62	Reaction of C ₆₀ with KMnF ₄ : Isolation and characterization of a new isomer of C ₆₀ F ₈ and re-evaluation of the structures of C ₆₀ F ₇ (CF ₃) and the known isomer of C ₆₀ F ₈ . <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1423-1435	2.1	20
61	C ₇₄ F ₃₈ : An Exohedral Derivative of a Small-Bandgap Fullerene with D ₃ Symmetry. <i>Angewandte Chemie</i> , 2004 , 116, 1015-1018	3.6	19
60	Saturated vapor pressure and sublimation enthalpy of C ₆₀ F ₁₈ . <i>Journal of Chemical Thermodynamics</i> , 2002 , 34, 57-61	2.9	19
59	Trifluoromethylation of fullerenes: kinetic and thermodynamic control. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 13009-17	2.8	18
58	Mass spectrometric studies of trifluoromethylated fullerenes. <i>International Journal of Mass Spectrometry</i> , 2006 , 251, 16-22	1.9	18
57	From Corannulene to Indacenopicene: Effect of Carbon Framework Topology on Aromaticity and Reduction Limits. <i>Organometallics</i> , 2016 , 35, 3105-3111	3.8	18
56	Electrochemical, ESR and theoretical studies of [6,6]-opened C(60)(CF ₂), cis-2-C(60)(CF ₂)(2) and their anions. <i>Dalton Transactions</i> , 2008 , 6886-93	4.3	17
55	[6,6]-Open and [6,6]-closed isomers of C ₇₀ (CF ₂): synthesis, electrochemical and quantum chemical investigation. <i>Chemistry - A European Journal</i> , 2013 , 19, 17969-79	4.8	16
54	New C ₇₀ (CF ₃) _n isomers (n = 12, 14, 16). Realkylation and addend rearrangements. <i>Russian Chemical Bulletin</i> , 2009 , 58, 1146-1154	1.7	16

53	Synthesis and molecular structure of 1,6,11,16,18,24,27,36-C ₆₀ (CF ₃) ₈ . <i>Mendeleev Communications</i> , 2007 , 17, 110-112	1.9	16
52	Raman, Infrared, and Theoretical Studies of Fluorofullerene C ₆₀ F ₂₀ . <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11449-11456	2.8	16
51	The formation of long-lived fluorofullerene dianions by direct electrospray ionization. <i>Chemical Physics Letters</i> , 2005 , 405, 93-96	2.5	16
50	Diastereoselective lithium salt-assisted 1,3-dipolar cycloaddition of azomethine ylides to the fullerene C ₆₀ . <i>Tetrahedron</i> , 2010 , 66, 3037-3041	2.4	15
49	The former "C ₆₀ F ₁₆ " is actually a double-caged adduct: (C ₆₀ F ₁₆)(C ₆₀). <i>Chemical Communications</i> , 2007 , 704-6	5.8	15
48	Transalkylation of higher trifluoromethylated fullerenes with C ₇₀ : a pathway to new addition patterns of C ₇₀ (CF ₃) ₈ . <i>Chemistry - A European Journal</i> , 2014 , 20, 1126-33	4.8	14
47	High resolution and low-temperature photoelectron spectroscopy of an oxygen-linked fullerene dimer dianion: C(120)O(2-). <i>Journal of Chemical Physics</i> , 2008 , 128, 114307	3.9	14
46	Synthesis of Rationally Halogenated Buckybowls by Chemoselective Aromatic C-H Bond Activation. <i>Angewandte Chemie</i> , 2017 , 129, 4912-4916	3.6	13
45	Isolation and structural characterization of the most highly trifluoromethylated C ₇₀ fullerenes: C ₇₀ (CF ₃) ₁₈ and C ₇₀ (CF ₃) ₂₀ . <i>New Journal of Chemistry</i> , 2013 , 37, 299-302	3.6	13
44	S ₆ Isomer of C ₆₀ (CF ₃) ₁₂ : Synthesis, properties and thermodynamic functions. <i>Journal of Chemical Thermodynamics</i> , 2013 , 66, 59-64	2.9	13
43	Unexpected fullerene dimerization via [5,6]-bond upon functionalization of C(s)-C ₇₀ (CF ₃) ₈ by the Bingel reaction. <i>Dalton Transactions</i> , 2011 , 40, 959-65	4.3	13
42	ISOLATION AND CHARACTERISATION OF C ₆₀ (CF ₃) ₂ . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2002 , 10, 235-241	1.8	13
41	Regioselective near-equatorial chlorination of Cs-C ₇₀ (CF ₃) ₈ . <i>New Journal of Chemistry</i> , 2011 , 35, 32-35	3.6	12
40	Electron affinities of [5,6]-open and [5,6]-closed adducts of trifluoromethylfullerene Cs-C ₇₀ (CF ₃) ₈ : even one bond matters!. <i>Electrochimica Acta</i> , 2016 , 191, 980-986	6.7	11
39	Alkylated [6,6]-open difluoromethanofullerenes C ₆₀ (CF ₂) ₂ R ₂ : Facile synthesis, electrochemical behavior and photovoltaic applications. <i>Electrochimica Acta</i> , 2016 , 219, 130-142	6.7	10
38	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 . <i>Dalton Transactions</i> , 2008 , 2627-32	4.3	10
37	Fused-Pentagon Isomers of C Fullerene Isolated as Chloro and Trifluoromethyl Derivatives. <i>Chemistry - A European Journal</i> , 2020 , 26, 2338-2341	4.8	10
36	Synthesis and structures of trifluoromethyl derivatives of fullerenes C ₈₄ (16) and C ₈₄ (18). <i>Russian Chemical Bulletin</i> , 2014 , 63, 2657-2667	1.7	9

35	The enthalpy of formation of fullerene fluoride C ₆₀ F ₁₈ and the C-F bond energy. <i>Russian Journal of Physical Chemistry A</i> , 2007 , 81, 1560-1564	0.7	9
34	Lower trifluoromethyl[70]fullerene derivatives: novel structural data and an survey of electronic properties. <i>Electrochimica Acta</i> , 2017 , 255, 472-481	6.7	8
33	Reductive Hydrogenation of Cs -C ₇₀ (CF ₃) ₈ and C ₁ -C ₇₀ (CF ₃) ₁₀ . <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1945-54	4.5	8
32	Alkali-metal trichloroacetates for dichloromethylenation of fullerenes: nucleophilic addition-substitution route. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 915-23	4.5	8
31	Green and rapid preparation of long-term stable aqueous dispersions of fullerenes and endohedral fullerenes: The pros and cons of an ultrasonic probe. <i>Ultrasonics Sonochemistry</i> , 2021 , 73, 105533	8.9	8
30	Magnetic coupling and optical properties of the S ₆ -dodecakis(trifluoromethyl)fullerene radical anions in the layered salt (PPN(+)) [C ₆₀ (CF ₃) ₁₂] ⁽⁻⁾ . <i>Chemistry - A European Journal</i> , 2014 , 20, 5380-7	4.8	7
29	Synthesis, X-ray Structure and Mass Spectrum of Cs-C ₆₀ (CF ₃) ₆ . <i>Mendeleev Communications</i> , 2012 , 22, 297-298	1.9	7
28	Negatively charged singly-bonded dimers of C ₁ -[C ₇₀ (CF ₃) ₁₀] and bare C ₇₀ fullerene. <i>New Journal of Chemistry</i> , 2019 , 43, 2726-2733	3.6	6
27	Pyrrolizidine and cyclobutane bridged double-caged fullerene derivatives. <i>New Journal of Chemistry</i> , 2013 , 37, 804	3.6	6
26	The first representative of a new family of the bridgehead-modified difluoromethylenated homofullerenes: electrochemical properties and synthetic availability. <i>Electrochimica Acta</i> , 2015 , 174, 143-154	6.7	6
25	New isomers of trifluoromethylated fullerene: C ₆₀ (CF ₃) ₁₂ and C ₆₀ (CF ₃) ₁₄ . <i>Russian Chemical Bulletin</i> , 2008 , 57, 2526-2534	1.7	6
24	Computational Study of Structure and Thermochemistry of Some Endo- and Exohedral Fullerene Derivatives. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 169-173	1.8	6
23	Orienting Effect of the Cage Addends: The Case of Nucleophilic Cyclopropanation of C ₂ -C ₇₀ (CF ₃) ₈ . <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1370-8	4.5	5
22	C ₆₀ fluorination with rare earth metal tetrafluorides: an extreme PrF ₄ case. <i>Mendeleev Communications</i> , 2006 , 16, 159-161	1.9	5
21	Stepwise Regioselective Hydrogenation of cis-2-C (CF) Homofullerene with [6,6]-Open/Closed Valence Tautomerism. <i>Chemistry - A European Journal</i> , 2016 , 22, 15485-15490	4.8	5
20	Electronic Communication between S=1/2 Spins in Negatively-charged Double-caged Fullerene C Derivative Bonded by Two Single Bonds and Pyrrolizidine Bridge. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1958-1964	4.5	4
19	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	1.7	4
18	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	3.9	4

17	Facile Separation, Spectroscopic Identification, and Electrochemical Properties of Higher Trifluoromethylated Derivatives of [70]Fullerene. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1920	4.5	4
16	Tightly Bound Double-Caged [60]Fullerene Derivatives with Enhanced Solubility: Structural Features and Application in Solar Cells. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1075-1086	4.5	3
15	Fabrication and characterization of MWCNT/natural Azerbaijani bentonite electroconductive ceramic composites. <i>Journal of Composite Materials</i> , 2019 , 53, 3909-3923	2.7	3
14	Addition of CF group to endohedral fullerene ScN@I-C. <i>Dalton Transactions</i> , 2020 , 49, 9137-9147	4.3	3
13	Dissociative Electron Attachment to 2,3,6,7,10,11-Hexabromotriphenylene. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 690-694	2.8	3
12	Alkali metal trifluoroacetates for the nucleophilic trifluoromethylation of fullerenes. <i>Journal of Fluorine Chemistry</i> , 2019 , 226, 109344	2.1	3
11	CF ₂ -Functionalized Trifluoromethylated Fullerene C ₇₀ (CF ₃) ₈ (CF ₂): Structure, Electronic Properties, and Spontaneous Oxidation at the Bridgehead Carbon Atoms. <i>Asian Journal of Organic Chemistry</i> , 2019 , 8, 1924-1932	3	3
10	Regioselective Mono- and Dialkylation of [6,6]-open C (CF): Synthetic and Kinetic Aspects. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 1701-1708	4.5	2
9	Negative Ions of Trifluoromethyl Fullerene Derivatives: First Thermodynamic Data. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 201-207	1.8	2
8	Regioselective Synthesis of [6,6]-Open and [5,6]-Closed C ₇₀ (CF ₃) ₈ [CH ₂] Methanofullerenes with Rapid [6,6]-to-[5,6] Phototransformation. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 750-758	3.2	2
7	History of the V.F. Luginin Thermal Laboratory. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 2101-2107		1
6	Double-caged fullerene acceptors: effect of alkyl chain length on photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3278-3285	7.1	1
5	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	3.2	1
4	Para-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	3.2	0
3	Electrochemically Induced Dimerization of -C(CF) Trifluoromethylated Fullerene. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7876-7883	2.8	0
2	Silver ion-assisted substitutive fluorination of chlorofullerenes. <i>Journal of Fluorine Chemistry</i> , 2020 , 237, 109598	2.1	
1	Structure of CF: 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	2.8	