

Alexey A Goryunkov

List of Publications by Year in Descending Order

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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	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
87	Para-C60(CF2)(CF3)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
86	Electrochemically Induced Dimerization of -C(CF) Trifluoromethylated Fullerene. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7876-7883	2.8	0
85	Addition of CF group to endohedral fullerene ScN@I-C. <i>Dalton Transactions</i> , 2020 , 49, 9137-9147	4.3	3
84	Silver ion-assisted substitutive fluorination of chlorofullerenes. <i>Journal of Fluorine Chemistry</i> , 2020 , 237, 109598	2.1	
83	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
82	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
81	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
80	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	
79	Intermediate Products of C60 High-Temperature Chlorination [C60Cln (n = 8, 10, 14, 20, 24)]. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 6801-6804	3.2	1
78	Negatively charged singly-bonded dimers of C1-[C70(CF3)10] and bare C70 fullerene. <i>New Journal of Chemistry</i> , 2019 , 43, 2726-2733	3.6	6
77	Fabrication and characterization of MWCNT/natural Azerbaijani bentonite electroconductive ceramic composites. <i>Journal of Composite Materials</i> , 2019 , 53, 3909-3923	2.7	3
76	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
75	Alkali metal trifluoroacetates for the nucleophilic trifluoromethylation of fullerenes. <i>Journal of Fluorine Chemistry</i> , 2019 , 226, 109344	2.1	3
74	History of the V.F. Luginin Thermal Laboratory. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 2101-2107		1
73	CF2-Functionalized Trifluoromethylated Fullerene C70(CF3)8(CF2): Structure, Electronic Properties, and Spontaneous Oxidation at the Bridgehead Carbon Atoms. <i>Asian Journal of Organic Chemistry</i> , 2019 , 8, 1924-1932	3	3
72	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

71	Rebuilding C: Chlorination-Promoted Transformations of the Buckminsterfullerene into Pentagon-Fused C Derivatives. <i>Inorganic Chemistry</i> , 2018 , 57, 8325-8331	5.1	20
70	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
69	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
68	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
67	Synthesis of Rationally Halogenated Buckybowls by Chemoselective Aromatic C-H Bond Activation. <i>Angewandte Chemie</i> , 2017 , 129, 4912-4916	3.6	13
66	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
65	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
64	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
63	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
62	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
61	From Corannulene to Indacenopicene: Effect of Carbon Framework Topology on Aromaticity and Reduction Limits. <i>Organometallics</i> , 2016 , 35, 3105-3111	3.8	18
60	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
59	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
58	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
57	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
56	Magnetic coupling and optical properties of the S ₆ -dodecakis(trifluoromethyl)fullerene radical anions in the layered salt (PPN ⁺)[C ₆₀ (CF ₃) ₁₂ (B)]. <i>Chemistry - A European Journal</i> , 2014 , 20, 5380-7	4.8	7
55	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
54	Alkali-metal trichloroacetates for dichloromethylenation of fullerenes: nucleophilic addition-substitution route. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 915-23	4.5	8

53	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
52	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
51	Trifluoromethylation of fullerenes: kinetic and thermodynamic control. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 13009-17	2.8	18
50	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
49	Pyrrolizidine and cyclobutane bridged double-caged fullerene derivatives. <i>New Journal of Chemistry</i> , 2013 , 37, 804	3.6	6
48	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
47	S6 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
46	[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
45	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
44	Regioselective near-equatorial chlorination of Cs-C ₇₀ (CF ₃) ₈ . <i>New Journal of Chemistry</i> , 2011 , 35, 32-35	3.6	12
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	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
41	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
40	Ground-State Interaction and Electrical Doping of Fluorinated C ₆₀ in Conjugated Polymers. <i>Advanced Materials</i> , 2009 , 21, 4456-4460	24	38
39	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
38	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
37	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
36	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

35	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
34	p-type doping in organic light emitting diodes based on fluorinated C60. <i>Journal of Applied Physics</i> , 2008 , 104, 124505	2.5	23
33	New isomers of trifluoromethylated fullerene: C60(CF ₃) ₁₂ and C60(CF ₃) ₁₄ . <i>Russian Chemical Bulletin</i> , 2008 , 57, 2526-2534	1.7	6
32	Synthesis, structure and theoretical study of mixed fluoro-trifluoromethyl derivatives of C60. Molecular structures of C60F ₁₈ (CF ₃) ₆ and C60F ₁₆ (CF ₃) ₆ . <i>Dalton Transactions</i> , 2008 , 2627-32	4.3	10
31	New trifluoromethylated derivatives of [60]fullerene, C60(CF ₃) _n with n = 12 and 14. <i>Chemical Communications</i> , 2007 , 4794-6	5.8	30
30	Preparation and structures of [6,6]-open difluoromethylene[60]fullerenes: C60(CF ₂) and C60(CF ₂) ₂ . <i>Dalton Transactions</i> , 2007 , 5322-8	4.3	20
29	The former "C60F ₁₆ " is actually a double-caged adduct: (C60F ₁₆)(C60). <i>Chemical Communications</i> , 2007 , 704-6	5.8	15
28	Synthesis and characterization of difluoromethylene-homo[60]fullerene, C60(CF ₂). <i>Chemical Communications</i> , 2007 , 374-6	5.8	25
27	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
26	Synthesis and molecular structure of 1,6,11,16,18,24,27,36-C60(CF ₃) ₈ . <i>Mendeleev Communications</i> , 2007 , 17, 110-112	1.9	16
25	Higher trifluoromethylated derivatives of C60, C60(CF ₃) ₁₆ and C60(CF ₃) ₁₈ . <i>Journal of Fluorine Chemistry</i> , 2007 , 128, 545-551	2.1	39
24	The enthalpy of formation of fullerene fluoride C60F ₁₈ and the C-F bond energy. <i>Russian Journal of Physical Chemistry A</i> , 2007 , 81, 1560-1564	0.7	9
23	Synthesis, structures and reactivity of polyhalo[60]fullerenes. <i>Russian Chemical Reviews</i> , 2007 , 76, 289-312	1.28	22
22	Synthesis, characterization, and theoretical study of stable isomers of C70(CF ₃) _n (n = 2, 4, 6, 8, 10). <i>Chemistry - A European Journal</i> , 2006 , 12, 3876-89	4.8	72
21	Preparation, Crystallographic Characterization, and Theoretical Study of C70(CF ₃) ₁₄ . <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 2508-2512	3.2	30
20	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
19	Preparation, crystallographic characterization and theoretical study of C70(CF ₃) ₁₆ and C70(CF ₃) ₁₈ . <i>Chemical Communications</i> , 2006 , 2463-5	5.8	43
18	Preparation, crystallographic characterization and theoretical study of two isomers of C70(CF ₃) ₁₂ . <i>Chemical Communications</i> , 2006 , 1778-80	5.8	40

17	Mass spectrometric studies of trifluoromethylated fullerenes. <i>International Journal of Mass Spectrometry</i> , 2006 , 251, 16-22	1.9	18
16	Structure of 1,4,10,19,25,41-C70(CF3)6, isomer with unique arrangement of addends. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1344-1348	2.1	25
15	Reaction of C60 with KMnF4: Isolation and characterization of a new isomer of C60F8 and re-evaluation of the structures of C60F7(CF3) and the known isomer of C60F8. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1423-1435	2.1	20
14	C60 fluorination with rare earth metal tetrafluorides: an extreme PrF4 case. <i>Mendeleev Communications</i> , 2006 , 16, 159-161	1.9	5
13	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
12	Negative Ions of Trifluoromethyl Fullerene Derivatives: First Thermodynamic Data. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 201-207	1.8	2
11	The formation of long-lived fluorofullerene dianions by direct electrospray ionization. <i>Chemical Physics Letters</i> , 2005 , 405, 93-96	2.5	16
10	Crystal and molecular structures of C70(CF3)8PhMe. <i>Mendeleev Communications</i> , 2005 , 15, 225-227	1.9	40
9	Trifluoromethylated [60]Fullerenes: Synthesis and Characterization. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 181-185	1.8	24
8	C74F38: an exohedral derivative of a small-bandgap fullerene with D3 symmetry. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 997-1000	16.4	48
7	C74F38: An Exohedral Derivative of a Small-Bandgap Fullerene with D3 Symmetry. <i>Angewandte Chemie</i> , 2004 , 116, 1015-1018	3.6	19
6	Raman, Infrared, and Theoretical Studies of Fluorofullerene C60F20. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11449-11456	2.8	16
5	Isolation of C60(CF3)n (n = 2, 4, 6, 8, 10) with high compositional purity. <i>Journal of Fluorine Chemistry</i> , 2003 , 124, 61-64	2.1	85
4	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
3	Saturated vapor pressure and sublimation enthalpy of C60F 18. <i>Journal of Chemical Thermodynamics</i> , 2002 , 34, 57-61	2.9	19
2	ISOLATION AND CHARACTERISATION OF C60(CF3)2. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2002 , 10, 235-241	1.8	13
1	Reaction of silver(I) and (II) fluorides with C60: thermodynamic control over fluorination level. <i>Journal of Fluorine Chemistry</i> , 2001 , 112, 191-196	2.1	27