Ilya Ioffe

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113 papers	2,747 citations	30 h-index	46 g-index
132 ext. papers	2,955 ext. citations	5.4 avg, IF	4.7 L-index

#	Paper	IF	Citations
113	Photoisomerization dynamics and pathways of trans- and cis-azobenzene in solution from broadband femtosecond spectroscopies and calculations. *Journal of Physical Chemistry B*, **2014**, 118, 8756-71	3.4	116
112	Synthesis and structure of the highly chlorinated [60]fullerene C60Cl30 with a drum-shaped carbon cage. *Angewandte Chemie - International Edition*, **2004**, 44, 234-7	16.4	116
111	Isolation of C60(CF3)n (n = 2, 4, 6, 8, 10) with high compositional purity. *Journal of Fluorine Chemistry*, **2003**, 124, 61-64	2.1	85
110	Ionization Energy of Fullerenes. *Journal of the American Chemical Society*, **2000**, 122, 9745-9749	16.4	85
109	Two Isomers of C F : An Indented Fullerene. *Angewandte Chemie - International Edition*, **2001**, 40, 2285-2287	16.4	82
108	Synthesis, characterization, and theoretical study of stable isomers of C70(CF3)n (n = 2, 4, 6, 8, 10). *Chemistry - A European Journal*, **2006**, 12, 3876-89	4.8	72
107	Fusing pentagons in a fullerene cage by chlorination: IPR D2-C76 rearranges into non-IPR C76Cl24. *Angewandte Chemie - International Edition*, **2009**, 48, 5904-7	16.4	71
106	Evidence for the phantom state in photoinduced cis–trans isomerization of stilbene. *Chemical Physics Letters*, **2010**, 493, 255-258	2.5	70
105	Photoisomerization of Stilbene: The Detailed XMCQDPT2 Treatment. *Journal of Chemical Theory and Computation*, **2013**, 9, 4973-90	6.4	68
104	Organometallic complexes of graphene: toward atomic spintronics using a graphene web. *ACS Nano*, **2011**, 5, 9939-49	16.7	67
103	Chlorination of C86 to C84Cl32 with nonclassical heptagon-containing fullerene cage formed by cage shrinkage. *Angewandte Chemie - International Edition*, **2010**, 49, 4784-7	16.4	66
102	Trifluoromethylated endohedral metallofullerenes: synthesis and characterization of Y@C82(CF3)5. *Angewandte Chemie - International Edition*, **2005**, 44, 1846-9	16.4	65
101	Photoisomerization dynamics of stiff-stilbene in solution. *Journal of Physical Chemistry B*, **2014**, 118, 1389-402	3.4	53
100	Variable-temperature 19F NMR and theoretical study of 1,9- and 1,7-C60F(CF3) and C(s-) and C1-C60F17(CF3): hindered CF3 rotation and through-space J(FF) coupling. *Journal of the American Chemical Society*, **2005**, 127, 11497-504	16.4	52
99	Synthesis, Structure, and Theoretical Study of Lower Trifluoromethyl Derivatives of [60]Fullerene. *European Journal of Organic Chemistry*, **2007**, 2007, 5082-5094	3.2	51
98	Electron Affinity of Some Endohedral Lanthanide Fullerenes. *Journal of Physical Chemistry A*, **1997**, 101, 9561-9563	2.8	49
97	C74F38: an exohedral derivative of a small-bandgap fullerene with D3 symmetry. *Angewandte Chemie - International Edition*, **2004**, 43, 997-1000	16.4	48

96	C76 fullerene chlorides and cage transformations. Structural and theoretical study. *Dalton Transactions*, **2011**, 40, 11005-11	4.3	45
95	Photoelectron spectroscopy of isolated multiply negatively charged oligonucleotides. *Journal of the American Chemical Society*, **2004**, 126, 8585-9	16.4	45
94	Synthesis and structural characterization of highly chlorinated C70, C70Cl28. *Chemical Communications*, **2005**, 72-4	5.8	43
93	Preparation, crystallographic characterization and theoretical study of C70(CF3)16 and C70(CF3)18. *Chemical Communications*, **2006**, 2463-5	5.8	43
92	Femtosecond Raman spectra of cis-stilbene and trans-stilbene with isotopomers in solution. *Journal of Chemical Physics*, **2012**, 137, 244505	3.9	41
91	Preparation, crystallographic characterization and theoretical study of two isomers of C70(CF3)12. *Chemical Communications*, **2006**, 1778-80	5.8	40
90	Cage shrinkage of fullerene via a C2 loss: from IPR C90(28)Cl24 to nonclassical, heptagon-containing C88Cl22/24. *Inorganic Chemistry*, **2013**, 52, 13821-3	5.1	39
89	Higher trifluoromethylated derivatives of C60, C60(CF3)16 and C60(CF3)18. *Journal of Fluorine Chemistry*, **2007**, 128, 545-551	2.1	39
88	Synthese und Struktur des hoch chlorierten [60]Fullerens C60Cl30 mit trommelförmigem Kohlenstoffkäfig. *Angewandte Chemie*, **2005**, 117, 238-241	3.6	37
87	Terahertz absorption spectroscopy of a liquid using a polarity probe: a case study of trehalose/water mixtures. *Angewandte Chemie - International Edition*, **2010**, 49, 454-7	16.4	36
86	In-plume thermodynamics of the MALDI generation of fluorofullerene anions. *Journal of Physical Chemistry A*, **2005**, 109, 714-9	2.8	35
85	C100 is Converted into C94 Cl22 by Three Chlorination-Promoted C2 Losses under Formation and Elimination of Cage Heptagons. *Chemistry - A European Journal*, **2015**, 21, 4904-7	4.8	34
84	Structures of chlorinated fullerenes, IPR C□□□ and non-classical C□□□ and C□□□: evidence of the existence of three new isomers of C□□□. *Chemistry - an Asian Journal*, **2014**, 9, 3102-5	4.5	32
83	New trifluoromethylated derivatives of [60]fullerene, C60(CF3)n with n = 12 and 14. *Chemical Communications*, **2007**, 4794-6	5.8	30
82	Preparation, Crystallographic Characterization, and Theoretical Study of C70(CF3)14. *European Journal of Organic Chemistry*, **2006**, 2006, 2508-2512	3.2	30
81	Skeletal transformation of isolated pentagon rule (IPR) fullerene C82 into non-IPR C82Cl28 with notably low activation barriers. *Inorganic Chemistry*, **2012**, 51, 11226-8	5.1	29
80	Electron affinity of some trimetallic nitride and conventional metallofullerenes. *International Journal of Mass Spectrometry*, **2002**, 213, 183-189	1.9	29
79	In situ synthesis and characterization of fullerene derivatives by Knudsen-cell mass spectrometry. *International Journal of Mass Spectrometry*, **2003**, 228, 807-824	1.9	29

78	Chlorination-Promoted Skeletal Transformations of Fullerenes. *Accounts of Chemical Research*, **2019**, 52, 1783-1792	24.3	27
77	Synthesis and characterization of difluoromethylene-homo[60]fullerene, C60(CF2). *Chemical Communications*, **2007**, 374-6	5.8	25
76	Structure of 1,4,10,19,25,41-C70(CF3)6, isomer with unique arrangement of addends. *Journal of Fluorine Chemistry*, **2006**, 127, 1344-1348	2.1	25
75	Broadband transient absorption spectroscopy with 1- and 2-photon excitations: Relaxation paths and cross sections of a triphenylamine dye in solution. *Journal of Chemical Physics*, **2015**, 143, 024311	3.9	24
74	Trifluoromethylated [60]Fullerenes: Synthesis and Characterization. *Fullerenes Nanotubes and Carbon Nanostructures*, **2005**, 12, 181-185	1.8	24
73	Two-Photon-Induced versus One-Photon-Induced Isomerization Dynamics of a Bistable Azobenzene Derivative in Solution. *Journal of Physical Chemistry B*, **2015**, 119, 12281-8	3.4	22
72	Trifluoromethylated Endohedral Metallofullerenes: Synthesis and Characterization of Y@C82(CF3)5. *Angewandte Chemie*, **2005**, 117, 1880-1883	3.6	22
71	Regioselective synthesis and crystal structure of C70(CF3)10[C(CO2Et)2]. *New Journal of Chemistry*, **2008**, 32, 89-93	3.6	21
70	Experimental and Theoretical Approach to Variable Chlorination-Promoted Skeletal Transformations in Fullerenes: The Case of C. *Inorganic Chemistry*, **2018**, 57, 4222-4225	5.1	21
69	Tuning Stilbene Photochemistry by Fluorination: State Reordering Leads to Sudden Polarization near the Franck-Condon Region. *Journal of the American Chemical Society*, **2017**, 139, 15265-15274	16.4	20
68	Rebuilding C: Chlorination-Promoted Transformations of the Buckminsterfullerene into Pentagon-Fused C Derivatives. *Inorganic Chemistry*, **2018**, 57, 8325-8331	5.1	20
67	Preparation and structures of [6,6]-open difluoromethylene[60]fullerenes: C60(CF2) and C60(CF2)2. *Dalton Transactions*, **2007**, 5322-8	4.3	20
66	Crystal and molecular structures of C2-C70(CF3)8□1.5PhMe. *Mendeleev Communications*, **2008**, 18, 73-75	1.9	20
65	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. *Journal of Fluorine Chemistry*, **2006**, 127, 1423-1435	2.1	20
64	C74F38: An Exohedral Derivative of a Small-Bandgap Fullerene with D3 Symmetry. *Angewandte Chemie*, **2004**, 116, 1015-1018	3.6	19
63	Trifluoromethylation of fullerenes: kinetic and thermodynamic control. *Journal of Physical Chemistry A*, **2013**, 117, 13009-17	2.8	18
62	Excited-state Raman spectroscopy with and without actinic excitation: S1 Raman spectra of trans-azobenzene. *Journal of Chemical Physics*, **2014**, 140, 184310	3.9	18
61	Mass spectrometric studies of trifluoromethylated fullerenes. *International Journal of Mass Spectrometry*, **2006**, 251, 16-22	1.9	18

60	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**, 6886-93	4.3	17
59	[6,6]-Open and [6,6]-closed isomers of C70(CF2): synthesis, electrochemical and quantum chemical investigation. *Chemistry - A European Journal*, **2013**, 19, 17969-79	4.8	16
58	Application of 9-nitroanthracene as a matrix for laser desorption/ionization analysis of fluorinated fullerenes. *Rapid Communications in Mass Spectrometry*, **2004**, 18, 360-2	2.2	16
57	Perpendicular State of an Electronically Excited Stilbene: Observation by Femtosecond-Stimulated Raman Spectroscopy. *Journal of Physical Chemistry Letters*, **2016**, 7, 4047-4052	6.4	16
56	The former "C60F16" is actually a double-caged adduct: (C60F16)(C60). *Chemical Communications*, **2007**, 704-6	5.8	15
55	Transalkylation of higher trifluoromethylated fullerenes with C70: a pathway to new addition patterns of C70(CF3)8. *Chemistry - A European Journal*, **2014**, 20, 1126-33	4.8	14
54	Anion radicals of isomeric [5,6] and [6,6] benzoadducts of Sc3N@C80: remarkable differences in endohedral cluster spin density and dynamics. *Journal of the American Chemical Society*, **2014**, 136, 13436-41	16.4	14
53	High resolution and low-temperature photoelectron spectroscopy of an oxygen-linked fullerene dimer dianion: C(120)O(2-). *Journal of Chemical Physics*, **2008**, 128, 114307	3.9	14
52	Effect of a Tertiary Butyl Group on Polar Solvation Dynamics in Aqueous Solution: Femtosecond Fluorescence Spectroscopy. *Journal of Physical Chemistry B*, **2017**, 121, 9631-9638	3.4	13
51	Versatility of chlorination-promoted skeletal transformation pathways in C fullerene. *Dalton Transactions*, **2018**, 47, 4554-4559	4.3	13
50	Isolation and structural characterization of the most highly trifluoromethylated C70 fullerenes: C70(CF3)18 and C70(CF3)20. *New Journal of Chemistry*, **2013**, 37, 299-302	3.6	13
49	Mass spectrometric studies of 1-ethyl-3-methylimidazolium and 1-propyl-2,3-dimethylimidazolium bis(trifluoromethyl)-sulfonylimides. *Rapid Communications in Mass Spectrometry*, **2015**, 29, 1227-32	2.2	13
48	Unexpected fullerene dimerization via [5,6]-bond upon functionalization of C(s)-C70(CF3)8 by the Bingel reaction. *Dalton Transactions*, **2011**, 40, 959-65	4.3	13
47	Solvation oscillations and excited-state dynamics of 2-amino- and 2-hydroxy-7-nitrofluorene and its 2Θdeoxyriboside. *Journal of Physical Chemistry A*, **2008**, 112, 4294-307	2.8	13
46	Mass spectrometry, photoelectron spectroscopy, and quantum chemical studies of fluorofullerene dianions. *International Journal of Mass Spectrometry*, **2005**, 243, 223-230	1.9	13
45	Electron affinities of [5,6]-open and [5,6]-closed adducts of trifluoromethylfullerene Cs-C70(CF3)8: even one bond matters!. *Electrochimica Acta*, **2016**, 191, 980-986	6.7	11
44	Exohedral and skeletal rearrangements in the molecules of fullerene derivatives. *Russian Chemical Reviews*, **2011**, 80, 631-645	6.8	11
43	Theoretical study of isomerization mechanisms in fluorinated fullerene derivatives. *Journal of Physical Chemistry A*, **2009**, 113, 10833-8	2.8	11

42	Formation of long-lived fluorofullerene trianions in collisions with Na. *Journal of Chemical Physics*, **2005**, 122, 021102	3.9	11
41	Rotamer-Specific Photoisomerization of Difluorostilbenes from Transient Absorption and Transient Raman Spectroscopy. *Journal of Physical Chemistry B*, **2018**, 122, 1049-1059	3.4	11
40	Photoisomerization pathways and Raman activity of 1,1Ꝏdifluorostilbene. *Journal of Chemical Physics*, **2017**, 146, 044501	3.9	10
39	Alkylated [6,6]-open difluoromethanofullerenes C 60 (CF 2)R 2 : Facile synthesis, electrochemical behavior and photovoltaic applications. *Electrochimica Acta*, **2016**, 219, 130-142	6.7	10
38	Synthesis and molecular structure of pentafluoroethyl derivatives of C70: C70(C2F5)8 and C70(C2F5)10. *Dalton Transactions*, **2009**, 2740-5	4.3	10
37	Electron interaction with S6-C60(CF3)12: Energy pool of fullerene cage. *International Journal of Mass Spectrometry*, **2008**, 272, 119-126	1.9	10
36	Synthesis, structure and theoretical study of mixed fluoro-trifluoromethyl derivatives of C60. Molecular structures of C60F18(CF3)6 and C60F16(CF3)6. *Dalton Transactions*, **2008**, 2627-32	4.3	10
35	Isosteric and fluorescent DNA base pair formed by 4-amino-phthalimide and 2,4-diaminopyrimidine: melting, structure, and THz polar solvation dynamics. *Physical Chemistry Chemical Physics*, **2016**, 18, 6813-20	3.6	9
34	The enthalpy of formation of fullerene fluoride C60F18 and the C-F bond energy. *Russian Journal of Physical Chemistry A*, **2007**, 81, 1560-1564	0.7	9
33	Lower trifluoromethyl[70]fullerene derivatives: novel structural data and an survey of electronic properties. *Electrochimica Acta*, **2017**, 255, 472-481	6.7	8
32	Multistate Multiconfiguration Quantum Chemical Computation of the Two-Photon Absorption Spectra of Bovine Rhodopsin. *Journal of Physical Chemistry Letters*, **2019**, 10, 6293-6300	6.4	8
31	Reductive Hydrogenation of Cs -C70 (CF3)8 and C1 -C70 (CF3)10. *Chemistry - an Asian Journal*, **2016** , 11, 1945-54	4.5	8
30	Alkali-metal trichloroacetates for dichloromethylenation of fullerenes: nucleophilic addition-substitution route. *Chemistry - an Asian Journal*, **2014**, 9, 915-23	4.5	8
29	Photoisomerization around a fulvene double bond: coherent population transfer to the electronic ground state?. *ChemPhysChem*, **2011**, 12, 1860-71	3.2	8
28	Trifluoromethyl Derivatives of a Monometallic Cyanide Cluster Fullerene, YCN@C(6)(CF). *Inorganic Chemistry*, **2016**, 55, 12523-12526	5.1	8
27	Negatively charged singly-bonded dimers of C1-[C70(CF3)10] and bare C70 fullerene. *New Journal of Chemistry*, **2019**, 43, 2726-2733	3.6	6
26	Time-Resolved Photochemistry of Stiffened Stilbenes. *Journal of Physical Chemistry B*, **2019**, 123, 4291-4300	3.4	6
25	The first representative of a new family of the bridgehead-modified difluoromethylenated homofullerenes: electrochemical properties and synthetic availability. *Electrochimica Acta*, **2015**, 174, 143-154	6.7	6

24	New isomers of trifluoromethylated fullerene: C60(CF3)12 and C60(CF3)14. *Russian Chemical Bulletin*, **2008**, 57, 2526-2534	1.7	6
23	Novel possibilities in the study of isolated carbon nanotubes. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 1372-6	2.2	6
22	Computational Study of Structure and Thermochemistry of Some Endo- and Exohedral Fullerene Derivatives. *Fullerenes Nanotubes and Carbon Nanostructures*, **2005**, 12, 169-173	1.8	6
21	Investigation of temperature dependence of photoluminescence for fluorinated fullerene thin films. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2005**, 543, 221-224	1.2	6
20	Orienting Effect of the Cage Addends: The Case of Nucleophilic Cyclopropanation of C2 -C70 (CF3)8. *Chemistry - an Asian Journal*, **2015**, 10, 1370-8	4.5	5
19	Highly Fluorescent Pyrido[2,3-b]indolizine-10-Carbonitriles through Pseudo Three-Component Reactions of N-(Cyanomethyl)pyridinium Salts. *European Journal of Organic Chemistry*, **2019**, 2019, 6770-6775	3.2	5
18	7-Amino-dibenzofuran-3-carboxylate: A new probe for femtosecond dynamic microsolvation studies of biomolecules. *Journal of Photochemistry and Photobiology A: Chemistry*, **2012**, 234, 164-170	4.7	5
17	Stepwise Regioselective Hydrogenation of cis-2-C (CF) Homofullerene with [6,6]-Open/Closed Valence Tautomerism. *Chemistry - A European Journal*, **2016**, 22, 15485-15490	4.8	5
16	Electronic Communication between S=1/2 Spins in Negatively-charged Double-caged Fullerene C Derivative Bonded by Two Single Bonds and Pyrrolizidine Bridge. *Chemistry - an Asian Journal*, **2019**, 14, 1958-1964	4.5	4
15	Photoisomerization dynamics of trans-trans, cis-trans, and cis-cis diphenylbutadiene from broadband transient absorption spectroscopy and calculations. *Journal of Chemical Physics*, **2020**, 152, 224305	3.9	4
14	Transient Rotamerism and Photoisomerization Dynamics of - and -Naphthylstilbene. *Journal of Physical Chemistry B*, **2020**, 124, 1049-1064	3.4	4
13	Electron affinity and suppression effect in analysis of chlorofullerenes by MALDI mass spectrometry. *Russian Chemical Bulletin*, **2005**, 54, 1121-1124	1.7	4
12	Facile Separation, Spectroscopic Identification, and Electrochemical Properties of Higher Trifluoromethylated Derivatives of [70]Fullerene. *Chemistry - an Asian Journal*, **2018**, 13, 1920	4.5	4
11	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	4.5	3
10	Addition of CF group to endohedral fullerene ScN@I-C. *Dalton Transactions*, **2020**, 49, 9137-9147	4.3	3
9	Dissociative Electron Attachment to 2,3,6,7,10,11-Hexabromotriphenylene. *Journal of Physical Chemistry A*, **2020**, 124, 690-694	2.8	3
8	Smooth and jump-like metal-dielectric transitions in single-walled carbon nanotubes under functionalization. *ACS Nano*, **2010**, 4, 6260-6	16.7	3
7	Evaluating the Solvent Stark Effect from Temperature-Dependent Solvatochromic Shifts of Anthracene. *ChemPhysChem*, **2020**, 21, 610-615	3.2	2

6	In Situ Very-High-Energy Diffraction Studies of Thermal Decomposition of Transition Metal Trifluorides. *Bulletin of the Chemical Society of Japan*, **2003**, 76, 1165-1169	5.1	2
5	Substitution pattern dependent behavior of the singlet excited states in symmetrically fluorinated biphenyls. *Physical Chemistry Chemical Physics*, **2021**, 23, 22067-22077	3.6	2
4	Regioselective Synthesis of [6,6]-Open and [5,6]-Closed C70(CF3)8[CH2] Methanofullerenes with Rapid [6,6]-to-[5,6] Phototransformation. *European Journal of Organic Chemistry*, **2018**, 2018, 750-758	3.2	2
3	A model of perealkylation reactions of trifluormethyl derivatives of fullerenes C60 and C70. *Moscow University Chemistry Bulletin*, **2010**, 65, 358-361	0.5	1
2	Electrochemically Induced Dimerization of -C(CF) Trifluoromethylated Fullerene. *Journal of Physical Chemistry A*, **2021**, 125, 7876-7883	2.8	0
1	Positive and negative signal and line shape in stimulated Raman spectroscopy: Resonance femtosecond Raman spectra of diphenylbutadiene.. *Journal of Chemical Physics*, **2022**, 156, 084304	3.9	