

Ilya Ioffe

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.

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	Positive and negative signal and line shape in stimulated Raman spectroscopy: Resonance femtosecond Raman spectra of diphenylbutadiene.. <i>Journal of Chemical Physics</i> , 2022 , 156, 084304	3.9	
112	Substitution pattern dependent behavior of the singlet excited states in symmetrically fluorinated biphenyls. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22067-22077	3.6	2
111	Electrochemically Induced Dimerization of -C(CF) Trifluoromethylated Fullerene. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7876-7883	2.8	0
110	Addition of CF group to endohedral fullerene ScN@I-C. <i>Dalton Transactions</i> , 2020 , 49, 9137-9147	4.3	3
109	Photoisomerization dynamics of trans-trans, cis-trans, and cis-cis diphenylbutadiene from broadband transient absorption spectroscopy and calculations. <i>Journal of Chemical Physics</i> , 2020 , 152, 224305	3.9	4
108	Evaluating the Solvent Stark Effect from Temperature-Dependent Solvatochromic Shifts of Anthracene. <i>ChemPhysChem</i> , 2020 , 21, 610-615	3.2	2
107	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
106	Transient Rotamerism and Photoisomerization Dynamics of - and -Naphthylstilbene. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1049-1064	3.4	4
105	Multistate Multiconfiguration Quantum Chemical Computation of the Two-Photon Absorption Spectra of Bovine Rhodopsin. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6293-6300	6.4	8
104	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
103	Chlorination-Promoted Skeletal Transformations of Fullerenes. <i>Accounts of Chemical Research</i> , 2019 , 52, 1783-1792	24.3	27
102	Time-Resolved Photochemistry of Stiffened Stilbenes. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4291-4300	3.4	6
101	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
100	Highly Fluorescent Pyrido[2,3-b]indolizine-10-Carbonitriles through Pseudo Three-Component Reactions of N-(Cyanomethyl)pyridinium Salts. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 6770-6775	3.3	5
99	Versatility of chlorination-promoted skeletal transformation pathways in C fullerene. <i>Dalton Transactions</i> , 2018 , 47, 4554-4559	4.3	13
98	Rebuilding C: Chlorination-Promoted Transformations of the Buckminsterfullerene into Pentagon-Fused C Derivatives. <i>Inorganic Chemistry</i> , 2018 , 57, 8325-8331	5.1	20
97	Regioselective Synthesis of [6,6]-Open and [5,6]-Closed C70(CF3)8[CH2] Methanofullerenes with Rapid [6,6]-to-[5,6] Phototransformation. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 750-758	3.2	2

96	Rotamer-Specific Photoisomerization of Difluorostilbenes from Transient Absorption and Transient Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1049-1059	3.4	11
95	Experimental and Theoretical Approach to Variable Chlorination-Promoted Skeletal Transformations in Fullerenes: The Case of C. <i>Inorganic Chemistry</i> , 2018 , 57, 4222-4225	5.1	21
94	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
93	Photoisomerization pathways and Raman activity of 1,1-Difluorostilbene. <i>Journal of Chemical Physics</i> , 2017 , 146, 044501	3.9	10
92	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
91	Tuning Stilbene Photochemistry by Fluorination: State Reordering Leads to Sudden Polarization near the Franck-Condon Region. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15265-15274	16.4	20
90	Effect of a Tertiary Butyl Group on Polar Solvation Dynamics in Aqueous Solution: Femtosecond Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9631-9638	3.4	13
89	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
88	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
87	Reductive Hydrogenation of 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
86	Electron affinities of [5,6]-open and [5,6]-closed adducts of trifluoromethylfullerene C ₇₀ (CF ₃) ₈ : even one bond matters!. <i>Electrochimica Acta</i> , 2016 , 191, 980-986	6.7	11
85	Isosteric and fluorescent DNA base pair formed by 4-amino-phthalimide and 2,4-diaminopyrimidine: melting, structure, and THz polar solvation dynamics. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6813-6820	3.6	9
84	Trifluoromethyl Derivatives of a Monometallic Cyanide Cluster Fullerene, YCN@C(6)(CF). <i>Inorganic Chemistry</i> , 2016 , 55, 12523-12526	5.1	8
83	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
82	Perpendicular State of an Electronically Excited Stilbene: Observation by Femtosecond-Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4047-4052	6.4	16
81	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
80	Broadband transient absorption spectroscopy with 1- and 2-photon excitations: Relaxation paths and cross sections of a triphenylamine dye in solution. <i>Journal of Chemical Physics</i> , 2015 , 143, 024311	3.9	24
79	Two-Photon-Induced versus One-Photon-Induced Isomerization Dynamics of a Bistable Azobenzene Derivative in Solution. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12281-8	3.4	22

78	Mass spectrometric studies of 1-ethyl-3-methylimidazolium and 1-propyl-2,3-dimethylimidazolium bis(trifluoromethyl)-sulfonylimides. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 1227-32	2.2	13
77	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
76	C100 is Converted into C94 Cl22 by Three Chlorination-Promoted C2 Losses under Formation and Elimination of Cage Heptagons. <i>Chemistry - A European Journal</i> , 2015 , 21, 4904-7	4.8	34
75	Transalkylation of higher trifluoromethylated fullerenes with C70: a pathway to new addition patterns of C70(CF3)8. <i>Chemistry - A European Journal</i> , 2014 , 20, 1126-33	4.8	14
74	Photoisomerization dynamics of stiff-stilbene in solution. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1389-402	3.4	53
73	Anion radicals of isomeric [5,6] and [6,6] benzoadducts of Sc3N@C80: remarkable differences in endohedral cluster spin density and dynamics. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13436-41	16.4	14
72	Structures of chlorinated fullerenes, IPR C ₇₀ Cl ₁₂ and non-classical C ₇₀ Cl ₁₂ and C ₇₀ Cl ₁₄ : Evidence of the existence of three new isomers of C ₇₀ Cl ₁₂ . <i>Chemistry - an Asian Journal</i> , 2014 , 9, 3102-5	4.5	32
71	Alkali-metal trichloroacetates for dichloromethylenation of fullerenes: nucleophilic addition-substitution route. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 915-23	4.5	8
70	Photoisomerization dynamics and pathways of trans- and cis-azobenzene in solution from broadband femtosecond spectroscopies and calculations. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8756-71	3.4	116
69	Excited-state Raman spectroscopy with and without actinic excitation: S1 Raman spectra of trans-azobenzene. <i>Journal of Chemical Physics</i> , 2014 , 140, 184310	3.9	18
68	Photoisomerization of Stilbene: The Detailed XMCQDPT2 Treatment. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4973-90	6.4	68
67	Cage shrinkage of fullerene via a C2 loss: from IPR C90(28)Cl24 to nonclassical, heptagon-containing C88Cl22/24. <i>Inorganic Chemistry</i> , 2013 , 52, 13821-3	5.1	39
66	Trifluoromethylation of fullerenes: kinetic and thermodynamic control. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 13009-17	2.8	18
65	Isolation and structural characterization of the most highly trifluoromethylated C70 fullerenes: C70(CF3)18 and C70(CF3)20. <i>New Journal of Chemistry</i> , 2013 , 37, 299-302	3.6	13
64	[6,6]-Open and [6,6]-closed isomers of C70(CF2): synthesis, electrochemical and quantum chemical investigation. <i>Chemistry - A European Journal</i> , 2013 , 19, 17969-79	4.8	16
63	7-Amino-dibenzofuran-3-carboxylate: A new probe for femtosecond dynamic microsolvation studies of biomolecules. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 234, 164-170	4.7	5
62	Femtosecond Raman spectra of cis-stilbene and trans-stilbene with isotopomers in solution. <i>Journal of Chemical Physics</i> , 2012 , 137, 244505	3.9	41
61	Skeletal transformation of isolated pentagon rule (IPR) fullerene C82 into non-IPR C82Cl28 with notably low activation barriers. <i>Inorganic Chemistry</i> , 2012 , 51, 11226-8	5.1	29

60	Exohedral and skeletal rearrangements in the molecules of fullerene derivatives. <i>Russian Chemical Reviews</i> , 2011 , 80, 631-645	6.8	11
59	Organometallic complexes of graphene: toward atomic spintronics using a graphene web. <i>ACS Nano</i> , 2011 , 5, 9939-49	16.7	67
58	Photoisomerization around a fulvene double bond: coherent population transfer to the electronic ground state?. <i>ChemPhysChem</i> , 2011 , 12, 1860-71	3.2	8
57	Unexpected fullerene dimerization via [5,6]-bond upon functionalization of C(s)-C70(CF3)8 by the Bingel reaction. <i>Dalton Transactions</i> , 2011 , 40, 959-65	4.3	13
56	C76 fullerene chlorides and cage transformations. Structural and theoretical study. <i>Dalton Transactions</i> , 2011 , 40, 11005-11	4.3	45
55	Smooth and jump-like metal-dielectric transitions in single-walled carbon nanotubes under functionalization. <i>ACS Nano</i> , 2010 , 4, 6260-6	16.7	3
54	A model of perealkylation reactions of trifluormethyl derivatives of fullerenes C60 and C70. <i>Moscow University Chemistry Bulletin</i> , 2010 , 65, 358-361	0.5	1
53	Terahertz absorption spectroscopy of a liquid using a polarity probe: a case study of trehalose/water mixtures. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 454-7	16.4	36
52	Chlorination of C86 to C84Cl32 with nonclassical heptagon-containing fullerene cage formed by cage shrinkage. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4784-7	16.4	66
51	Evidence for the phantom state in photoinduced cis-trans isomerization of stilbene. <i>Chemical Physics Letters</i> , 2010 , 493, 255-258	2.5	70
50	Fusing pentagons in a fullerene cage by chlorination: IPR D2-C76 rearranges into non-IPR C76Cl24. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5904-7	16.4	71
49	Theoretical study of isomerization mechanisms in fluorinated fullerene derivatives. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10833-8	2.8	11
48	Synthesis and molecular structure of pentafluoroethyl derivatives of C70: C70(C2F5)8 and C70(C2F5)10. <i>Dalton Transactions</i> , 2009 , 2740-5	4.3	10
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	Regioselective synthesis and crystal structure of C70(CF3)10[C(CO2Et)2]. <i>New Journal of Chemistry</i> , 2008 , 32, 89-93	3.6	21
45	Electrochemical, ESR and theoretical studies of [6,6]-opened C(60)(CF2), cis-2-C(60)(CF2)(2) and their anions. <i>Dalton Transactions</i> , 2008 , 6886-93	4.3	17
44	Solvation oscillations and excited-state dynamics of 2-amino- and 2-hydroxy-7-nitrofluorene and its 2'-deoxyriboside. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4294-307	2.8	13
43	Electron interaction with S6-C60(CF3)12: Energy pool of fullerene cage. <i>International Journal of Mass Spectrometry</i> , 2008 , 272, 119-126	1.9	10

42	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
41	Novel possibilities in the study of isolated carbon nanotubes. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1372-6	2.2	6
40	Crystal and molecular structures of C ₂ -C ₇₀ (CF ₃) ₈ ·1.5PhMe. <i>Mendeleev Communications</i> , 2008 , 18, 73-75	1.9	20
39	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
38	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
37	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
36	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
35	Synthesis and characterization of difluoromethylene-homo[60]fullerene, C ₆₀ (CF ₂). <i>Chemical Communications</i> , 2007 , 374-6	5.8	25
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	Mass spectrometric studies of trifluoromethylated fullerenes. <i>International Journal of Mass Spectrometry</i> , 2006 , 251, 16-22	1.9	18
26	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
25	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

24	Synthesis and structural characterization of highly chlorinated C70, C70Cl28. <i>Chemical Communications</i> , 2005 , 72-4	5.8	43
23	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. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11497-504	16.4	52
22	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
21	In-plume thermodynamics of the MALDI generation of fluorofullerene anions. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 714-9	2.8	35
20	Trifluoromethylated endohedral metallofullerenes: synthesis and characterization of Y@C82(CF3)5. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1846-9	16.4	65
19	Trifluoromethylated Endohedral Metallofullerenes: Synthesis and Characterization of Y@C82(CF3)5. <i>Angewandte Chemie</i> , 2005 , 117, 1880-1883	3.6	22
18	Synthese und Struktur des hoch chlorierten [60]Fullerens C60Cl30 mit trommelförmigem Kohlenstoffkfig. <i>Angewandte Chemie</i> , 2005 , 117, 238-241	3.6	37
17	Investigation of temperature dependence of photoluminescence for fluorinated fullerene thin films. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 543, 221-224	1.2	6
16	Mass spectrometry, photoelectron spectroscopy, and quantum chemical studies of fluorofullerene dianions. <i>International Journal of Mass Spectrometry</i> , 2005 , 243, 223-230	1.9	13
15	Electron affinity and suppression effect in analysis of chlorofullerenes by MALDI mass spectrometry. <i>Russian Chemical Bulletin</i> , 2005 , 54, 1121-1124	1.7	4
14	Formation of long-lived fluorofullerene trianions in collisions with Na. <i>Journal of Chemical Physics</i> , 2005 , 122, 021102	3.9	11
13	Trifluoromethylated [60]Fullerenes: Synthesis and Characterization. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 181-185	1.8	24
12	Application of 9-nitroanthracene as a matrix for laser desorption/ionization analysis of fluorinated fullerenes. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 360-2	2.2	16
11	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
10	C74F38: An Exohedral Derivative of a Small-Bandgap Fullerene with D3 Symmetry. <i>Angewandte Chemie</i> , 2004 , 116, 1015-1018	3.6	19
9	Photoelectron spectroscopy of isolated multiply negatively charged oligonucleotides. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8585-9	16.4	45
8	Synthesis and structure of the highly chlorinated [60]fullerene C60Cl30 with a drum-shaped carbon cage. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 234-7	16.4	116
7	In Situ Very-High-Energy Diffraction Studies of Thermal Decomposition of Transition Metal Trifluorides. <i>Bulletin of the Chemical Society of Japan</i> , 2003 , 76, 1165-1169	5.1	2

6	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
5	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
4	Electron affinity of some trimetallic nitride and conventional metallofullerenes. <i>International Journal of Mass Spectrometry</i> , 2002 , 213, 183-189	1.9	29
3	Two Isomers of C ₆₀ F ₁₈ : An Indented Fullerene. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2285-2287	1.7	82
2	Ionization Energy of Fullerenes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 9745-9749	16.4	85
1	Electron Affinity of Some Endohedral Lanthanide Fullerenes. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 9561-9563	2.8	49