Ilya Ioffe

List of Publications by Citations

Source: https://exaly.com/author-pdf/4187697/ilya-ioffe-publications-by-citations.pdf

Version: 2024-04-11

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.

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

#	Paper	IF	Citations
113	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
112	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
111	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
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. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2285-7	2 28 74	82
108	Synthesis, characterization, and theoretical study of stable isomers of C70(CF3)n (n = 2, 4, 6, 8, 10). <i>Chemistry - A European Journal</i> , 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 cistrans isomerization of stilbene. <i>Chemical Physics Letters</i> , 2010 , 493, 255-258	2.5	70
105	Photoisomerization of Stilbene: The Detailed XMCQDPT2 Treatment. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4973-90	6.4	68
104	Organometallic complexes of graphene: toward atomic spintronics using a graphene web. <i>ACS Nano</i> , 2011 , 5, 9939-49	16.7	67
103	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
102	Trifluoromethylated endohedral metallofullerenes: synthesis and characterization of Y@C82(CF3)5. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1846-9	16.4	65
101	Photoisomerization dynamics of stiff-stilbene in solution. <i>Journal of Physical Chemistry B</i> , 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. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11497-504	16.4	52
99	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
98	Electron Affinity of Some Endohedral Lanthanide Fullerenes. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 9561-9563	2.8	49
97	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

(2003-2011)

96	C76 fullerene chlorides and cage transformations. Structural and theoretical study. <i>Dalton Transactions</i> , 2011 , 40, 11005-11	4.3	45
95	Photoelectron spectroscopy of isolated multiply negatively charged oligonucleotides. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8585-9	16.4	45
94	Synthesis and structural characterization of highly chlorinated C70, C70Cl28. <i>Chemical Communications</i> , 2005 , 72-4	5.8	43
93	Preparation, crystallographic characterization and theoretical study of C70(CF3)16 and C70(CF3)18. <i>Chemical Communications</i> , 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. <i>Chemical Communications</i> , 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. <i>Inorganic Chemistry</i> , 2013 , 52, 13821-3	5.1	39
89	Higher trifluoromethylated derivatives of C60, C60(CF3)16 and C60(CF3)18. <i>Journal of Fluorine Chemistry</i> , 2007 , 128, 545-551	2.1	39
88	Synthese und Struktur des hoch chlorierten [60]Fullerens C60Cl30 mit trommelfEmigem KohlenstoffkEig. <i>Angewandte Chemie</i> , 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. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 454-7	16.4	36
86	In-plume thermodynamics of the MALDI generation of fluorofullerene anions. <i>Journal of Physical Chemistry A</i> , 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. <i>Chemistry - A European Journal</i> , 2015 , 21, 4904-7	4.8	34
84	Structures of chlorinated fullerenes, IPR CILLand non-classical CILLand CILLevidence of the existence of three new isomers of CILChemistry - 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. <i>Chemical Communications</i> , 2007 , 4794-6	5.8	30
82	Preparation, Crystallographic Characterization, and Theoretical Study of C70(CF3)14. <i>European Journal of Organic Chemistry</i> , 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. <i>Inorganic Chemistry</i> , 2012 , 51, 11226-8	5.1	29
80	Electron affinity of some trimetallic nitride and conventional metallofullerenes. <i>International Journal of Mass Spectrometry</i> , 2002 , 213, 183-189	1.9	29
79	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

78	Chlorination-Promoted Skeletal Transformations of Fullerenes. <i>Accounts of Chemical Research</i> , 2019 , 52, 1783-1792	24.3	27
77	Synthesis and characterization of difluoromethylene-homo[60]fullerene, C60(CF2). <i>Chemical Communications</i> , 2007 , 374-6	5.8	25
76	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
75	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
74	Trifluoromethylated [60]Fullerenes: Synthesis and Characterization. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 181-185	1.8	24
73	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
72	Trifluoromethylated Endohedral Metallofullerenes: Synthesis and Characterization of Y@C82(CF3)5. <i>Angewandte Chemie</i> , 2005 , 117, 1880-1883	3.6	22
71	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
70	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
69	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
68	Rebuilding C: Chlorination-Promoted Transformations of the Buckminsterfullerene into Pentagon-Fused C Derivatives. <i>Inorganic Chemistry</i> , 2018 , 57, 8325-8331	5.1	20
67	Preparation and structures of [6,6]-open difluoromethylene[60]fullerenes: C60(CF2) and C60(CF2)2. <i>Dalton Transactions</i> , 2007 , 5322-8	4.3	20
66	Crystal and molecular structures of C2-C70(CF3)8日.5PhMe. <i>Mendeleev Communications</i> , 2008 , 18, 73-75	5 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. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1423-1435	2.1	20
64	C74F38: An Exohedral Derivative of a Small-Bandgap Fullerene with D3 Symmetry. <i>Angewandte Chemie</i> , 2004 , 116, 1015-1018	3.6	19
63	Trifluoromethylation of fullerenes: kinetic and thermodynamic control. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 13009-17	2.8	18
62	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
61	Mass spectrometric studies of trifluoromethylated fullerenes. <i>International Journal of Mass Spectrometry</i> , 2006 , 251, 16-22	1.9	18

(2009-2008)

60	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	
59	[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	
58	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	
57	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	
56	The former "C60F16" is actually a double-caged adduct: (C60F16)(C60). <i>Chemical Communications</i> , 2007 , 704-6	5.8	15	
55	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	
54	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, 1343	3 ⁶⁻⁴⁴	14	
53	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	
52	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	
51	Versatility of chlorination-promoted skeletal transformation pathways in C fullerene. <i>Dalton Transactions</i> , 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. <i>New Journal of Chemistry</i> , 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. <i>Rapid Communications in Mass Spectrometry</i> , 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. <i>Dalton Transactions</i> , 2011 , 40, 959-65	4.3	13	
47	Solvation oscillations and excited-state dynamics of 2-amino- and 2-hydroxy-7-nitrofluorene and its 20deoxyriboside. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4294-307	2.8	13	
46	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	
45	Electron affinities of [5,6]-open and [5,6]-closed adducts of trifluoromethylfullerene Cs-C70(CF3)8: even one bond matters!. <i>Electrochimica Acta</i> , 2016 , 191, 980-986	6.7	11	
44	Exohedral and skeletal rearrangements in the molecules of fullerene derivatives. <i>Russian Chemical Reviews</i> , 2011 , 80, 631-645	6.8	11	
43	Theoretical study of isomerization mechanisms in fluorinated fullerene derivatives. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10833-8	2.8	11	

42	Formation of long-lived fluorofullerene trianions in collisions with Na. <i>Journal of Chemical Physics</i> , 2005 , 122, 021102	3.9	11
41	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
40	Photoisomerization pathways and Raman activity of 1,10difluorostilbene. <i>Journal of Chemical Physics</i> , 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. <i>Electrochimica Acta</i> , 2016 , 219, 130-142	6.7	10
38	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
37	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
36	Synthesis, structure and theoretical study of mixed fluoro-trifluoromethyl derivatives of C60. Molecular structures of C60F18(CF3)6 and C60F16(CF3)6. <i>Dalton Transactions</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 681	3 ² 20	9
34	The enthalpy of formation of fullerene fluoride C60F18 and the C-F bond energy. <i>Russian Journal of Physical Chemistry A</i> , 2007 , 81, 1560-1564	0.7	9
33	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
32	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
31	Reductive Hydrogenation of Cs -C70 (CF3)8 and C1 -C70 (CF3)10. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1945-54	4.5	8
30	Alkali-metal trichloroacetates for dichloromethylenation of fullerenes: nucleophilic addition-substitution route. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 915-23	4.5	8
29	Photoisomerization around a fulvene double bond: coherent population transfer to the electronic ground state?. <i>ChemPhysChem</i> , 2011 , 12, 1860-71	3.2	8
28	Trifluoromethyl Derivatives of a Monometallic Cyanide Cluster Fullerene, YCN@C(6)(CF). <i>Inorganic Chemistry</i> , 2016 , 55, 12523-12526	5.1	8
27	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
26	Time-Resolved Photochemistry of Stiffened Stilbenes. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4291-	4 <u>3</u> .Q0	6
25	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

(2020-2008)

24	New isomers of trifluoromethylated fullerene: C60(CF3)12 and C60(CF3)14. <i>Russian Chemical Bulletin</i> , 2008 , 57, 2526-2534	1.7	6
23	Novel possibilities in the study of isolated carbon nanotubes. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1372-6	2.2	6
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	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. <i>Chemistry - an Asian Journal</i> , 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. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 6770	- 87 75	5
18	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
17	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
16	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
15	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
14	Transient Rotamerism and Photoisomerization Dynamics of - and -Naphthylstilbene. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1049-1064	3.4	4
13	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
12	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
11	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
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. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 690-694	2.8	3
8	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
7	Evaluating the Solvent Stark Effect from Temperature-Dependent Solvatochromic Shifts of Anthracene. <i>ChemPhysChem</i> , 2020 , 21, 610-615	3.2	2

6	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
5	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
4	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
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
	Prosective Striversity Chemistry Butterin, 2010, 03, 330 301		
2	Electrochemically Induced Dimerization of -C(CF) Trifluoromethylated Fullerene. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7876-7883	2.8	0