

Igor V Kuvychko

List of Publications by Year in descending order

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46

papers

1,789

citations

279701

23

h-index

265120

42

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all docs

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docs citations

53

times ranked

914

citing authors

#	ARTICLE	IF	CITATIONS
1	PAH/PAH(CF ₃) _n Donor/Acceptor Charge-Transfer Complexes in Solution and in Solid-State Co-Crystals. <i>Chemistry - A European Journal</i> , 2019, 25, 13547-13565.	1.7	7
2	Steric and electronic effects of CF ₃ conformations in acene(CF ₃) derivatives. <i>Journal of Fluorine Chemistry</i> , 2019, 221, 1-7.	0.9	7
3	Understanding Polyarene Trifluoromethylation with Hot CF ₃ Radicals Using Corannulene. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4233-4245.	1.2	8
4	Experimental and DFT Studies of the Electron-Withdrawing Ability of Perfluoroalkyl (R _F) Groups: Electron Affinities of PAH(R _F) _n Increase Significantly with Increasing R _F Chain Length. <i>Chemistry - A European Journal</i> , 2018, 24, 1441-1447.	1.7	13
5	Self-Assembly of Aligned Hybrid One-Dimensional Stacks from Two Complementary 'Bowls'. <i>Crystal Growth and Design</i> , 2018, 18, 307-311.	1.4	13
6	Fluorination-Induced Evolution of Columnar Packing in Fluorous Triphenylenes and Benzotriphenylenes. <i>ChemPlusChem</i> , 2018, 83, 1066-1066.	1.3	1
7	Fluorination-Induced Evolution of Columnar Packing in Fluorous Triphenylenes and Benzotriphenylenes. <i>ChemPlusChem</i> , 2018, 83, 1067-1077.	1.3	7
8	Incremental Tuning Up of Fluorous Phenazine Acceptors. <i>Chemistry - A European Journal</i> , 2016, 22, 3930-3936.	1.7	12
9	Frontispiece: Incremental Tuning Up of Fluorous Phenazine Acceptors. <i>Chemistry - A European Journal</i> , 2016, 22, .	1.7	0
10	Perfluoroalkylfullerenes. <i>Chemical Reviews</i> , 2015, 115, 1051-1105.	23.0	90
11	Single-Step Gas-Phase Polyperfluoroalkylation of Naphthalene Leads to Thermodynamic Products. <i>Chemistry - A European Journal</i> , 2014, 20, 4373-4379.	1.7	20
12	Poly(trifluoromethyl)azulenes: structures and acceptor properties. <i>Chemical Communications</i> , 2014, 50, 6263-6266.	2.2	16
13	Regioselective Sequential Additions of Nucleophiles and Electrophiles to Perfluoroalkylfullerenes: Which Cage C Atoms Are the Most Reactive and Why?. <i>Chemistry - A European Journal</i> , 2013, 19, 5070-5080.	1.7	17
14	C ₂₀ H ₄ (C ₄ F ₈) ₃ : A Fluorine-Containing Annulated Corannulene that Is a Better Electron Acceptor Than C ₆₀ . <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7505-7508.	7.2	58
15	Taming Hot CF ₃ Radicals: Incrementally Tuned Families of Polyarene Electron Acceptors for Air-Stable Molecular Optoelectronics. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4871-4874.	7.2	38
16	Substituent effects in a series of 1,7-C ₆₀ (RF) ₂ compounds (RF = CF ₃ , C ₂ F ₅ , n-C ₃ F ₇ , i-C ₃ F ₇ , n-C ₄ F ₉ , s-C ₄ F ₉). <i>Journal of the Royal Society, Interface</i> , 2012, 9, 1399.	3.7	25
17	Solution-phase perfluoroalkylation of C ₆₀ leads to efficient and selective synthesis of bis-perfluoroalkylated fullerenes. <i>Journal of Fluorine Chemistry</i> , 2012, 143, 103-108.	0.9	9
18	A Buckybowl with a Lot of Potential: <i>i>C</i><sub>5</sub>â€C<sub>20</sub>H<sub>5</sub>(CF<sub>3</sub>)<sub>5</sub>. <i>Angewandte Chemie - International Edition</i>, 2012, 51, 4939-4942.</i>	7.2	81

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19	Chemical tailoring of fullerene acceptors: synthesis, structures and electrochemical properties of perfluoroisopropylfullerenes. <i>Chemical Communications</i> , 2011, 47, 875-877.	2.2	20
20	Poly(perfluoroalkylation) of Metallic Nitride Fullerenes Reveals Addition-Pattern Guidelines: Synthesis and Characterization of a Family of $\text{Sc}_{3}(\text{C}_{80})(\text{CF}_3)_3 \text{C}_{n}$ ($n = 2 \sim 16$) and Their Radical Anions. <i>Journal of the American Chemical Society</i> , 2011, 133, 2672-2690.	6.6	73
21	In Search of Fullerene-Based Superacids: Synthesis, X-ray Structure, and DFT Study of $\text{C}_{60}(\text{C}_{2}\text{F}_5)_5\text{H}$. <i>Chemistry - A European Journal</i> , 2011, 17, 8799-8802.	1.7	20
22	Pressure effect on heterogeneous trifluoromethylation of fullerenes and its application. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 679-685.	0.9	17
23	Soluble Chlorofullerenes $\text{C}_{60}\text{Cl}_{2,4,6,8,10}$. Synthesis, Purification, Compositional Analysis, Stability, and Experimental/Theoretical Structure Elucidation, Including the X-ray Structure of $\text{C}_{60}\text{Cl}_{10}$. <i>Journal of the American Chemical Society</i> , 2010, 132, 6443-6462.	6.6	57
24	High-temperature and photochemical syntheses of C60 and C70 fullerene derivatives with linear perfluoroalkyl chains. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1198-1212.	0.9	19
25	Photoelectron Spectroscopy of $\text{C}_{60}\text{F}_{m}$: $m = 2, 3, 4, 5, 6, 7, 8, 9, 10$ ($n = 17, 33, 35, 43, 45, 47; m = 34, 46$) in the Gas Phase and the Generation and Characterization of $\text{C}_{60}\text{F}_{47}$ and $\text{C}_{60}\text{F}_{44}$ in Solution. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1756-1765.	1.1	17
26	Dynamic HPLC study of C70 chlorination reveals a surprisingly selective synthesis of C_{70}Cl_8 . <i>Chemical Communications</i> , 2010, 46, 8204.	2.2	7
27	$\text{C}_{60}\text{C}_{84}$: Trifluoromethylation Yields Structural Proof of a Minor C_{84} Cage and Reveals a Principle of Higher Fullerene Reactivity. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6204-6207.	7.2	63
28	Synthesis and X-ray or NMR/DFT Structure Elucidation of Twenty-One New Trifluoromethyl Derivatives of Soluble Cage Isomers of C76, C78, C84, and C90. <i>Journal of the American Chemical Society</i> , 2008, 130, 13471-13489.	6.6	91
29	1,7,16,30,36,47-Hexakis(perfluoroisopropyl)-1,7,16,30,36,47-hexahydro(C_{60})-[5,6]fullerene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o4575-o4575.	0.2	3
30	Trifluoromethyl Derivatives of Insoluble Small-HOMO-LUMO-Gap Hollow Higher Fullerenes. NMR and DFT Structure Elucidation of $\text{C}_2-(\text{C}_{74}-\text{D}_3\text{h})(\text{CF}_3)_{12}, \text{Cs}-(\text{C}_{76}-\text{Td}(2))(\text{CF}_3)_{12}, \text{C}_2-(\text{C}_{78}-\text{D}_3\text{h}(5))(\text{CF}_3)_{12}, \text{Cs}-(\text{C}_{80}-\text{C}_2\text{v}(5))(\text{CF}_3)_{12}$, and $\text{C}_2-(\text{C}_{82}-\text{C}_2(5))(\text{CF}_3)_{12}$. <i>Journal of the American Chemical Society</i> , 2006, 128, 15793-15798.	6.6	118
31	Thermally Stable Perfluoroalkylfullerenes with the Skew-Pentagonal-Pyramid Pattern: $\text{C}_{60}(\text{C}_2\text{F}_5)_4\text{O}$, $\text{C}_{60}(\text{CF}_3)_4\text{O}$, and $\text{C}_{60}(\text{CF}_3)_6$. <i>Journal of the American Chemical Society</i> , 2006, 128, 12268-12280.	6.6	53
32	Synthesis and structures of poly(perfluoroethyl)[60]fullerenes: 1,7,16,36,46,49-C60(C2F5)6 and 1,6,11,18,24,27,32,35-C60(C2F5)8. <i>Chemical Communications</i> , 2006, , 308-310.	2.2	27
33	Reaction of C60 with KMnF4. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 1423-1435.	0.9	20
34	Synthesis, Characterization, and Theoretical Study of Stable Isomers of $\text{C}_{70}(\text{CF}_3)_n$ ($n = 2, 4, 6, 8, 10$). <i>Chemistry - A European Journal</i> , 2006, 12, 3876-3889.	1.7	77
35	Trifluoromethylated Endohedral Metallofullerenes: Synthesis and Characterization of $\text{Y}@\text{C}_{82}(\text{CF}_3)_5$. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1846-1849.	7.2	68
36	High-Temperature Synthesis of the Surprisingly Stable $\text{C}_1-\text{C}_{70}(\text{CF}_3)_{10}$ Isomer with a para ⁷ -meta-para Ribbon of Nine $\text{C}_6(\text{CF}_3)_2$ Edge-Sharing Hexagons. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7984-7987.	7.2	69

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37	Seven-Minute Synthesis of PureCs-C ₆₀ Cl ₆ from [60]Fullerene and Iodine Monochloride: First IR, Raman, and Mass Spectra of 99 mol % C ₆₀ Cl ₆ . <i>Chemistry - A European Journal</i> , 2005, 11, 5426-5436.	1.7	61
38	Trifluoromethylated [60]Fullerenes: Synthesis and Characterization. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005, 12, 181-185.	1.0	25
39	Variable-Temperature ¹⁹ F NMR and Theoretical Study of 1,9- and 1,7-C ₆₀ F(CF ₃) and Cs- and C ₁ -C ₆₀ F ₁₇ (CF ₃): \hat{A} Hindered CF ₃ Rotation and Through-Space JFF Coupling. <i>Journal of the American Chemical Society</i> , 2005, 127, 11497-11504.	6.6	53
40	Synthesis, Structure, and ¹⁹ F NMR Spectra of 1,3,7,10,14,17,23,28,31,40-C ₆₀ (CF ₃) ₁₀ . <i>Journal of the American Chemical Society</i> , 2005, 127, 8362-8375.	6.6	105
41	Application of 9-nitroanthracene as a matrix for laser desorption/ionization analysis of fluorinated fullerenes. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 360-362.	0.7	17
42	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.	7.2	51
43	Th-C ₆₀ F ₂₄ . <i>Journal of the American Chemical Society</i> , 2004, 126, 1618-1619.	6.6	47
44	Raman, Infrared, and Theoretical Studies of Fluorofullerene C ₆₀ F ₂₀ . <i>Journal of Physical Chemistry A</i> , 2004, 108, 11449-11456.	1.1	18
45	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.	0.9	92
46	The influence of phenylated by-products on the MALDI analysis of chlorinated fullerenes. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 979-984.	0.7	10