

Ivan E Kareev

List of Publications by Year in descending order

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35
papers

1,101
citations

430754

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docs citations

38
times ranked

567
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.8	19
2	Non-Functionalized Fullerenes and Endofullerenes in Aqueous Dispersions as Superoxide Scavengers. <i>Molecules</i> , 2020, 25, 2506.	1.7	13
3	Aqueous Dispersions of Unmodified Y@C82 (C2v) Endohedral Metallofullerene. <i>ChemistrySelect</i> , 2017, 2, 8936-8940.	0.7	3
4	Unusual regioselectivity of C ₁ C ₇₀ (CF ₃) ₁₀ in the Diels-Alder reaction. <i>Journal of Fluorine Chemistry</i> , 2017, 196, 81-87.	0.9	0
5	Harnessing Electron Transfer from the Perchlorotriphenylmethide Anion to Y@C ₈₂ (C _{2v}) to Engineer an Endometallofullerene-Based Salt. <i>ChemPhysChem</i> , 2013, 14, 1670-1675.	1.0	13
6	EPR spectrum of the Y@C82 metallofullerene isolated in solid argon matrix: hyperfine structure from EPR spectroscopy and relativistic DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8863.	1.3	11
7	Electron Donor-Acceptor Interactions in Regioselectively Synthesized exTTF-C ₇₀ (CF ₃) ₁₀ Dyads. <i>Chemistry - A European Journal</i> , 2010, 16, 5343-5353.	1.7	20
8	High-temperature and photochemical syntheses of C ₆₀ and C ₇₀ fullerene derivatives with linear perfluoroalkyl chains. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1198-1212.	0.9	19
9	Unraveling the Electron Spin Resonance Pattern of Nonsymmetric Radicals with 30 Fluorine Atoms: Electron Spin Resonance and Vis-Near-Infrared Spectroelectrochemistry of the Anion Radicals and Dianions of C ₆₀ (CF ₃) _{2n} (n = 2-10) Derivatives and Density Functional Theory-Assisted Assignment. <i>Journal of the American Chemical Society</i> , 2010, 132, 11709-11721.	6.6	14
10	Efficient Regioselective [4+2] Cycloaddition of o-Quinodimethane to C ₇₀ (CF ₃) ₁₀ . <i>Journal of Organic Chemistry</i> , 2009, 74, 6902-6905.	1.7	18
11	Synthesis, Spectroscopic and Electrochemical Characterization, and DFT Study of Seventeen C ₇₀ (CF ₃) _n Derivatives (n = 2, 4, 6, 8, 10, 12). <i>Chemistry - A European Journal</i> , 2008, 14, 107-121.	1.7	73
12	C ₇₀ -CF ₃ (11)(CF ₃) ₁₂ : 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
13	Synthesis and X-ray or NMR/DFT Structure Elucidation of Twenty-One New Trifluoromethyl Derivatives of Soluble Cage Isomers of C ₇₆ , C ₇₈ , C ₈₄ , and C ₉₀ . <i>Journal of the American Chemical Society</i> , 2008, 130, 13471-13489.	6.6	91
14	Efficient Quenching of Singlet Oxygen via Energy Transfer to Semiconducting Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16236-16239.	1.5	29
15	1,3,7,10,14,17,21,28,31,42,52,55-Dodecakis(trifluoromethyl)-1,3,7,10,14,17,21,28,31,42,52,55-dodecahydro(C ₆₀) _h [5,6]fullerene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o159-o159.	0.2	5
16	Electrochemical, Spectroscopic, and DFT Study of C ₆₀ (CF ₃) _n Frontier Orbitals (n = 2-18): The Link between Double Bonds in Pentagons and Reduction Potentials. <i>Journal of the American Chemical Society</i> , 2007, 129, 11551-11568.	6.6	145
17	X-ray structure and DFT study of C ₁ -C ₆₀ (CF ₃) ₁₂ . A high-energy, kinetically-stable isomer prepared at 500 Å°C. <i>Chemical Communications</i> , 2007, , 1650-1652.	2.2	34
18	1,6,11,16,18,24,27,36-Octakis(trifluoromethyl)-1,6,11,16,18,24,27,36-octahydro(C ₆₀) _h [5,6]fullerene deuteriochloroform solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o3398-o3398.	0.2	4

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19	1,4,7,11,18,21,24,31,35,39,51,58,61,64-Tetradecakis(trifluoromethyl)-1,4,7,11,18,21,24,31,35,39,51,58,61,64-tetradecahydro(C ₇₀ -D5h(6)) [5,6]fullerene benzene 2.5-solvate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3928-o3929.	0.2	0
20	Thermally Stable Perfluoroalkylfullerenes with the Skew-Pentagonal-Pyramid Pattern: C ₆₀ (C ₂ F ₅) ₄₀ , C ₆₀ (CF ₃) ₄₀ , and C ₆₀ (CF ₃) ₆ . Journal of the American Chemical Society, 2006, 128, 12268-12280.	6.6	53
21	Synthesis and structures of poly(perfluoroethyl)[60]fullerenes: 1,7,16,36,46,49-C ₆₀ (C ₂ F ₅) ₆ and 1,6,11,18,24,27,32,35-C ₆₀ (C ₂ F ₅) ₈ . Chemical Communications, 2006, , 308-310.	2.2	27
22	1,4,10,19,25,32,41,49,54,60,66,69-Dodecakis(trifluoromethyl)-1,4,10,19,25,32,41,49,54,60,66,69-dodecahydro(C ₇₀ -D5h(6)) [5,6]fullerene benzene 2.5-solvate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o617-o619.	0.2	0
23	1,4,10,14,19,25,35,41,49,60,66,69-Dodecakis(trifluoromethyl)-1,4,10,14,19,25,35,41,49,60,66,69-dodecahydro(C ₇₀ -D5h(6)) [5,6]fullerene benzene disolvate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o620-o622.	0.2	7
24	1,6,12,15,18,23,25,41,45,57-Decakis(trifluoromethyl)-1,6,12,15,18,23,25,41,45,57-decahydro(C ₆₀ -Ih) [5,6]fullerene benzene 2.5-solvate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o1498-o1500.	0.2	0
25	1,6,11,16,18,26,36,44,48,58-Decakis(trifluoromethyl)-1,6,11,16,18,26,36,44,48,58-decahydro(C ₆₀ -Ih) [5,6]fullerene benzene disolvate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o1498-o1500.	0.2	7
26	1,6,11,18,24,27,52,55-Octakis(trifluoromethyl)-1,6,11,18,24,27,52,55-octahydro(C ₆₀ -Ih) [5,6]fullerene. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o3154-o3156.	0.2	8
27	Reaction of C ₆₀ with KMnF ₄ . Journal of Fluorine Chemistry, 2006, 127, 1423-1435.	0.9	20
28	Trifluoromethylated Endohedral Metallofullerenes: Synthesis and Characterization of Y@C ₈₂ (CF ₃) ₅ . Angewandte Chemie - International Edition, 2005, 44, 1846-1849.	7.2	68
29	High-Temperature Synthesis of the Surprisingly Stable C ₁ -C ₇₀ (CF ₃) ₁₀ Isomer with a para ⁷ -meta-para Ribbon of Nine C ₆ (CF ₃) ₂ Edge-Sharing Hexagons. Angewandte Chemie - International Edition, 2005, 44, 7984-7987.	7.2	69
30	Trifluoromethylated Endohedral Metallofullerenes: Synthesis and Characterization of Y@C ₈₂ (CF ₃) ₅ .. ChemInform, 2005, 36, no.	0.1	0
31	Variable-Temperature ¹⁹ F NMR and Theoretical Study of 1,9- and 1,7-C ₆₀ F(CF ₃) and C _s - and C ₁ -C ₆₀ F ₁₇ (CF ₃): Hindered CF ₃ Rotation and Through-Space JFC Coupling. Journal of the American Chemical Society, 2005, 127, 11497-11504.	6.6	53
32	Poly(trifluoromethyl)fullerene Radical Anions. An ESR/Vis-NIR Spectroelectrochemical Study of C ₆₀ F _{2,4} and C ₆₀ (CF ₃) _{2,10} . Journal of Physical Chemistry A, 2005, 109, 9709-9711.	1.1	24
33	Synthesis, Structure, and ¹⁹ F NMR Spectra of 1,3,7,10,14,17,23,28,31,40-C ₆₀ (CF ₃) ₁₀ . Journal of the American Chemical Society, 2005, 127, 8362-8375.	6.6	105
34	Diamagnetic Clusters of Paramagnetic Endometallofullerenes: A Solid-State MAS NMR Study. Journal of Physical Chemistry B, 2004, 108, 12450-12455.	1.2	12
35	Raman, Infrared, and Theoretical Studies of Fluorofullerene C ₆₀ F ₂₀ . Journal of Physical Chemistry A, 2004, 108, 11449-11456.	1.1	18