

Aleksandr Akimov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Matrix-Isolation and ab Initio Study of HNgCCF and HCCNgF Molecules (Ng = Ar, Kr, and Xe). <i>Journal of Physical Chemistry A</i> , 2010, 114, 4181-4187.	2.5	83
2	Single-Ion Magnet $\text{Et}_4\text{N}[\text{Co}(\text{hfac})_3]$ with Nonuniaxial Anisotropy: Synthesis, Experimental Characterization, and Theoretical Modeling. <i>Inorganic Chemistry</i> , 2016, 55, 9696-9706.	4.0	66
3	Formation of the $\text{CH}_3\text{-HF}$ Complex in Reaction of Thermal F Atoms with CH_4 in Solid Ar. <i>Journal of the American Chemical Society</i> , 1995, 117, 11997-11998.	13.7	51
4	High resolution EPR spectroscopy of C_6OF and C_7OF in solid argon: Reassignment of C_7OF regioisomers. <i>Journal of Chemical Physics</i> , 2007, 127, 084301.	3.0	51
5	Reactions of translationally excited and thermal fluorine atoms with CH_4 and CD_4 molecules in solid argon. <i>Journal of Chemical Physics</i> , 1997, 106, 3146-3156.	3.0	42
6	Evidence of field induced slow magnetic relaxation in $\text{cis-}[\text{Co}(\text{hfac})_2(\text{H}_2\text{O})_2]$ exhibiting tri-axial anisotropy with a negative axial component. <i>Dalton Transactions</i> , 2017, 46, 7540-7548.	3.3	42
7	High resolution electron paramagnetic resonance spectroscopy of septet pyridyl-2,4,6-trinitrene in solid argon: Fine-structure parameters of six electron-spin cluster. <i>Journal of Chemical Physics</i> , 2008, 129, 174510.	3.0	32
8	Molecular Structure and Magnetic Parameters of Septet 2,4,6-Trinitrenotoluene. <i>Journal of Organic Chemistry</i> , 2009, 74, 7238-7244.	3.2	31
9	High-spin organic molecules with dominant spin-orbit contribution and unprecedentedly large magnetic anisotropy. <i>Journal of Chemical Physics</i> , 2012, 137, 064308.	3.0	30
10	High resolution electron paramagnetic resonance spectroscopy of quintet pyridyl-2,6-dinitrene in solid argon: Magnetic properties and molecular structure. <i>Journal of Chemical Physics</i> , 2008, 128, 124504.	3.0	25
11	W-band EPR studies of high-spin nitrenes with large spin-orbit contribution to zero-field splitting. <i>Journal of Chemical Physics</i> , 2015, 143, 084313.	3.0	19
12	Migration of translationally excited fluorine atoms in solid argon and their reactions with small guest molecules. <i>Chemical Physics Letters</i> , 1997, 274, 23-28.	2.6	18
13	Endothermic Formation of a Chemical Bond by Entropic Stabilization: A Difluoronitroxide Radical in Solid Argon. <i>Journal of the American Chemical Society</i> , 1999, 121, 405-410.	13.7	18
14	Photochemical generation of triplet-triplet nitrene pairs in aromatic diazide crystals. <i>Russian Chemical Bulletin</i> , 2008, 57, 524-531.	1.5	18
15	The EPR Spectrum of Triplet Mesitylphosphinidene: Reassignment and New Assignment. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7944-7947.	13.8	18
16	Formation of the $\text{H}\dot{\text{i}}\text{-HF}$ complex in the reaction of thermal fluorine atoms with hydrogen molecules in solid Ar. <i>Chemical Physics Letters</i> , 1997, 267, 288-293.	2.6	17
17	Addition reactions of translationally hot fluorine atoms as a probe of long-range migration in crystalline argon: $\text{F}+\text{CO}$. <i>Chemical Physics Letters</i> , 1998, 293, 547-554.	2.6	17
18	Infrared and EPR Spectroscopic Studies of $2\text{-C}_2\text{H}_2\text{F}$ and $1\text{-C}_2\text{H}_2\text{F}$ Radicals Isolated in Solid Argon. <i>Journal of Molecular Spectroscopy</i> , 2001, 205, 269-279.	1.2	17

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19	Matrix isolation ESR spectroscopy and magnetic anisotropy of D3h symmetric septet trinitrenes. <i>Journal of Chemical Physics</i> , 2013, 138, 204317.	3.0	16
20	Heavy Atom Effect on Magnetic Anisotropy of Matrix-Isolated Monobromine Substituted Septet Trinitrene. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2413-2419.	2.5	16
21	Infrared and EPR Spectra of the Difluoronitroxide Radical. <i>Journal of the American Chemical Society</i> , 1998, 120, 11520-11521.	13.7	15
22	Infrared and EPR spectroscopic study of open-shell reactive intermediates: F+NH ₃ in solid argon. <i>Low Temperature Physics</i> , 2000, 26, 727-735.	0.6	12
23	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.	2.8	11
24	Matrix isolation ESR spectroscopy and quantum chemical calculations on 5-methylhexa-1,2,4-triene-1,3-diyl, a highly delocalized triplet σ -carbene. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2032.	2.8	10
25	Infrared spectroscopic observation of the radical XeF_3 generated in solid argon. <i>Inorganic Chemistry</i> , 2009, 48, 8723-8728.	4.0	9
26	High-resolution electron spin resonance spectroscopy of XeF in solid argon. The hyperfine structure constants as a probe of relativistic effects in the chemical bonding properties of a heavy noble gas atom. <i>Journal of Chemical Physics</i> , 2005, 122, 034503.	3.0	8
27	Infrared spectrum of elusive C ₂ F radical: A matrix-isolation and computational study. <i>Chemical Physics Letters</i> , 2010, 493, 220-224.	2.6	8
28	Field-induced single-ion magnet based on a quasi-octahedral Co(II) complex with mixed sulfur-oxygen coordination environment. <i>Dalton Transactions</i> , 2021, 50, 13815-13822.	3.3	8
29	Infrared and EPR Spectroscopic Observation of Novel Open-Shell Species: The Fluoroiminomethyl Radical (FCNH) in Solid Argon. <i>Journal of the American Chemical Society</i> , 2001, 123, 5156-5157.	13.7	7
30	HFCN open-shell isomers in solid argon. I. Spectroscopy of the ground and excited states of HFC=N radical. <i>Journal of Chemical Physics</i> , 2002, 116, 10307-10317.	3.0	6
31	Photochemical Formation and Reaction of Radical Pairs from NH ₃ -F ₂ Complexes Isolated in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9756-9760.	2.5	6
32	Molecular Conformations and Magnetic Parameters of the Compact Trimethylenemethane-Type Triplet Diradical. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8065-8072.	2.5	6
33	EPR spectroscopy of the radical-molecular complex NH ₂ -HF formed in low temperature chemical reaction of fluorine atoms with NH ₃ molecules trapped in solid argon. <i>Journal of Molecular Structure</i> , 2000, 519, 191-198.	3.6	5
34	High selectivity of fluorine atom addition to the asymmetric chemical bonds of C ₇₀ fullerene. <i>Mendeleev Communications</i> , 2007, 17, 274-276.	1.6	5
35	Steric Heavy Atom Effect on Magnetic Anisotropy of Triplet Tribromophenyl Nitrenes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8931-8937.	2.5	5
36	Magnetic anisotropy parameters of matrix-isolated septet 1,3,5-trinitreno-2,4,6-trichlorobenzene. <i>Russian Chemical Bulletin</i> , 2012, 61, 2218-2224.	1.5	4

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37	Unexpected effect of substituents on the zero-field splitting of triplet phenyl nitrenes. <i>Chemical Physics Letters</i> , 2016, 659, 234-236.	2.6	4
38	HFCN open-shell isomers in solid argon. II. Excited-state tunneling isomerization $\text{HFC}=\text{N}\hat{\leftarrow}\hat{\leftarrow}\text{FC}\hat{\leftarrow}\text{NH}$. <i>Journal of Chemical Physics</i> , 2002, 116, 10318-10324.	3.0	3
39	Reactions of photogenerated fluorine atoms with contaminant molecules trapped in solid argon 5. EPR spectroscopy of $\text{FC60}\hat{\leftarrow}$ radical in solid argon. <i>Russian Chemical Bulletin</i> , 2007, 56, 438-442.	1.5	3
40	Magnetic anisotropy parameters of matrix-isolated septet 2,4,6-tribromo-1,3,5-trinitrobenzene. <i>Russian Chemical Bulletin</i> , 2015, 64, 87-91.	1.5	3
41	EPR spectroscopy of quintet 4-amino-3,5-dichloropyridine-2,6-diyldinitrene isolated in solid argon. <i>Russian Chemical Bulletin</i> , 2007, 56, 2364-2369.	1.5	2
42	The electronic structure of 5-methylhexa-1,2,4-triene-1,3-diyl, the first representative of highly delocalized triplet ethynylvinylcarbenes, from ESR spectroscopy data and quantum chemical calculations. <i>Russian Chemical Bulletin</i> , 2011, 60, 2180-2187.	1.5	2
43	Reaction of photogenerated fluorine atoms with dopant molecules in solid argon. <i>Russian Chemical Bulletin</i> , 1997, 46, 687-692.	1.5	1
44	Reactions of photogenerated fluorine atoms with molecules trapped in solid argon. <i>Russian Chemical Bulletin</i> , 2000, 49, 829-835.	1.5	1
45	An EPR Study of Gamma-Irradiated Polyvinyl Alcohol. <i>High Energy Chemistry</i> , 2021, 55, 47-51.	0.9	1
46	Reactions of photogenerated fluorine atoms with dopant molecules in solid argon. <i>Russian Chemical Bulletin</i> , 1997, 46, 678-686.	1.5	0
47	Title is missing!. <i>Russian Chemical Bulletin</i> , 2001, 50, 989-995.	1.5	0