

Aleksandr Akimov

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	An EPR Study of Gamma-Irradiated Polyvinyl Alcohol. High Energy Chemistry, 2021, 55, 47-51.	0.9	1
2	Field-induced single-ion magnet based on a quasi-octahedral Co(Co^{II}) complex with mixed sulfur-oxygen coordination environment. Dalton Transactions, 2021, 50, 13815-13822.	3.3	8
3	Steric Heavy Atom Effect on Magnetic Anisotropy of Triplet Tribromophenyl Nitrenes. Journal of Physical Chemistry A, 2018, 122, 8931-8937.	2.5	5
4	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. Dalton Transactions, 2017, 46, 7540-7548.	3.3	42
5	The EPR Spectrum of Triplet Mesitylphosphinidene: Reassignment and New Assignment. Angewandte Chemie - International Edition, 2017, 56, 7944-7947.	13.8	18
6	Unexpected effect of substituents on the zero-field splitting of triplet phenyl nitrenes. Chemical Physics Letters, 2016, 659, 234-236.	2.6	4
7	Single-Ion Magnet $\text{Et}_4\text{N}[\text{Co}^{\text{II}}(\text{hfac})_3]$ with Nonuniaxial Anisotropy: Synthesis, Experimental Characterization, and Theoretical Modeling. Inorganic Chemistry, 2016, 55, 9696-9706.	4.0	66
8	W-band EPR studies of high-spin nitrenes with large spin-orbit contribution to zero-field splitting. Journal of Chemical Physics, 2015, 143, 084313.	3.0	19
9	Magnetic anisotropy parameters of matrix-isolated septet 2,4,6-tribromo-1,3,5-trinitrobenzene. Russian Chemical Bulletin, 2015, 64, 87-91.	1.5	3
10	Heavy Atom Effect on Magnetic Anisotropy of Matrix-Isolated Monobromine Substituted Septet Trinitrene. Journal of Physical Chemistry A, 2015, 119, 2413-2419.	2.5	16
11	Molecular Conformations and Magnetic Parameters of the Compact Trimethylenemethane-Type Triplet Diradical. Journal of Physical Chemistry A, 2013, 117, 8065-8072.	2.5	6
12	Matrix isolation ESR spectroscopy and magnetic anisotropy of D_{3h} symmetric septet trinitrenes. Journal of Chemical Physics, 2013, 138, 204317.	3.0	16
13	Magnetic anisotropy parameters of matrix-isolated septet 1,3,5-trinitro-2,4,6-trichlorobenzene. Russian Chemical Bulletin, 2012, 61, 2218-2224.	1.5	4
14	High-spin organic molecules with dominant spin-orbit contribution and unprecedentedly large magnetic anisotropy. Journal of Chemical Physics, 2012, 137, 064308.	3.0	30
15	Matrix isolation ESR spectroscopy and quantum chemical calculations on 5-methylhexa-1,2,4-triene-1,3-diyl, a highly delocalized triplet σ -carbene. Physical Chemistry Chemical Physics, 2012, 14, 2032.	2.8	10
16	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. Russian Chemical Bulletin, 2011, 60, 2180-2187.	1.5	2
17	EPR spectrum of the $\text{Y}@C_{82}$ metallofullerene isolated in solid argon matrix: hyperfine structure from EPR spectroscopy and relativistic DFT calculations. Physical Chemistry Chemical Physics, 2010, 12, 8863.	2.8	11
18	Infrared spectrum of elusive C_2F radical: A matrix-isolation and computational study. Chemical Physics Letters, 2010, 493, 220-224.	2.6	8

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19	Matrix-Isolation and ab Initio Study of HNgCCF and HCCNgF Molecules (Ng = Ar, Kr, and Xe). Journal of Physical Chemistry A, 2010, 114, 4181-4187.	2.5	83
20	Molecular Structure and Magnetic Parameters of Septet 2,4,6-Trinitrenotoluene. Journal of Organic Chemistry, 2009, 74, 7238-7244.	3.2	31
21	Infrared spectroscopic observation of the radical XeF_3 generated in solid argon. Inorganic Chemistry, 2009, 48, 8723-8728.	4.0	9
22	Photochemical generation of triplet-triplet nitrene pairs in aromatic diazide crystals. Russian Chemical Bulletin, 2008, 57, 524-531.	1.5	18
23	High resolution electron paramagnetic resonance spectroscopy of septet pyridyl-2,4,6-trinitrene in solid argon: Fine-structure parameters of six electron-spin cluster. Journal of Chemical Physics, 2008, 129, 174510.	3.0	32
24	High resolution electron paramagnetic resonance spectroscopy of quintet pyridyl-2,6-dinitrene in solid argon: Magnetic properties and molecular structure. Journal of Chemical Physics, 2008, 128, 124504.	3.0	25
25	High resolution EPR spectroscopy of C60F and C70F in solid argon: Reassignment of C70F regioisomers. Journal of Chemical Physics, 2007, 127, 084301.	3.0	51
26	High selectivity of fluorine atom addition to the asymmetric chemical bonds of C70 fullerene. Mendeleev Communications, 2007, 17, 274-276.	1.6	5
27	Reactions of photogenerated fluorine atoms with contaminant molecules trapped in solid argon 5. EPR spectroscopy of FC_{60} radical in solid argon. Russian Chemical Bulletin, 2007, 56, 438-442.	1.5	3
28	EPR spectroscopy of quintet 4-amino-3,5-dichloropyridine-2,6-diyl dinitrene isolated in solid argon. Russian Chemical Bulletin, 2007, 56, 2364-2369.	1.5	2
29	High-resolution electron spin resonance spectroscopy of XeF_3 in solid argon. The hyperfine structure constants as a probe of relativistic effects in the chemical bonding properties of a heavy noble gas atom. Journal of Chemical Physics, 2005, 122, 034503.	3.0	8
30	HFCN open-shell isomers in solid argon. II. Excited-state tunneling isomerization $\text{HFC}=\text{N}^{\bullet}\text{FC}=\text{NH}$. Journal of Chemical Physics, 2002, 116, 10318-10324.	3.0	3
31	HFCN open-shell isomers in solid argon. I. Spectroscopy of the ground and excited states of $\text{HFC}=\text{N}$ radical. Journal of Chemical Physics, 2002, 116, 10307-10317.	3.0	6
32	Photochemical Formation and Reaction of Radical Pairs from $\text{NH}_3^{\bullet}\text{F}_2$ Complexes Isolated in Solid Argon. Journal of Physical Chemistry A, 2002, 106, 9756-9760.	2.5	6
33	Infrared and EPR Spectroscopic Observation of Novel Open-Shell Species: The Fluoroiminomethyl Radical ($\text{FC}=\text{NH}$) in Solid Argon. Journal of the American Chemical Society, 2001, 123, 5156-5157.	13.7	7
34	Infrared and EPR Spectroscopic Studies of 2-C ₂ H ₂ F and 1-C ₂ H ₂ F Radicals Isolated in Solid Argon. Journal of Molecular Spectroscopy, 2001, 205, 269-279.	1.2	17
35	Title is missing!. Russian Chemical Bulletin, 2001, 50, 989-995.	1.5	0
36	Infrared and EPR spectroscopic study of open-shell reactive intermediates: $\text{F}+\text{NH}_3$ in solid argon. Low Temperature Physics, 2000, 26, 727-735.	0.6	12

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37	EPR spectroscopy of the radicalâ€“molecular complex NH ₂ â€“HF formed in low temperature chemical reaction of fluorine atoms with NH ₃ molecules trapped in solid argon. Journal of Molecular Structure, 2000, 519, 191-198.	3.6	5
38	Reactions of photogenerated fluorine atoms with molecules trapped in solid argon. Russian Chemical Bulletin, 2000, 49, 829-835.	1.5	1
39	Endothermic Formation of a Chemical Bond by Entropic Stabilization:Â Difluoronitroxide Radical in Solid Argon. Journal of the American Chemical Society, 1999, 121, 405-410.	13.7	18
40	Addition reactions of translationally hot fluorine atoms as a probe of long-range migration in crystalline argon: F+CO. Chemical Physics Letters, 1998, 293, 547-554.	2.6	17
41	Infrared and EPR Spectra of the Difluoronitroxide Radical. Journal of the American Chemical Society, 1998, 120, 11520-11521.	13.7	15
42	Reactions of translationally excited and thermal fluorine atoms with CH ₄ and CD ₄ molecules in solid argon. Journal of Chemical Physics, 1997, 106, 3146-3156.	3.0	42
43	Reactions of photogenerated fluorine atoms with dopant molecules in solid argon. Russian Chemical Bulletin, 1997, 46, 678-686.	1.5	0
44	Reaction of photogenerated fluorine atoms with dopant molecules in solid argon. Russian Chemical Bulletin, 1997, 46, 687-692.	1.5	1
45	Formation of the Hfâ€“HF complex in the reaction of thermal fluorine atoms with hydrogen molecules in solid Ar. Chemical Physics Letters, 1997, 267, 288-293.	2.6	17
46	Migration of translationally excited fluorine atoms in solid argon and their reactions with small guest molecules. Chemical Physics Letters, 1997, 274, 23-28.	2.6	18
47	Formation of the CH ₃ -HF Complex in Reaction of Thermal F Atoms with CH ₄ in Solid Ar. Journal of the American Chemical Society, 1995, 117, 11997-11998.	13.7	51