

Vladimir I Feldman

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Radiation-induced closure of the second aromatic ring: Possible way to PAH starting from a styrene-acetylene complex. Radiation Physics and Chemistry, 2022, 191, 109847.	2.8	3
2	Spectroscopy and radiation-induced chemistry of an atmospherically relevant CH ₂ F ₂ ⋯H ₂ O complex: Evidence for the formation of CF ₂ ⋯H ₂ O complex as revealed by FTIR matrix isolation and ab initio study. Chemosphere, 2022, 291, 132967.	8.2	6
3	On the mechanism of radiation sensitization by gold nanoparticles under X-ray irradiation of oxygen-free aqueous organic solutions: A spin trapping study. Radiation Physics and Chemistry, 2022, 193, 109998.	2.8	2
4	The radiation-induced preparation of ultrasmall gold nanoparticles in Au(III) complexes with units of poly(1-vinyl-1,2,4-triazole) and poly(1-vinyl-1,2,4-triazole)-poly(acrylic acid). Colloids and Interface Science Communications, 2022, 47, 100602.	4.1	6
5	Evidence for effect of macrocycle symmetry on radiation-induced ring opening in 18-crown-6 complexes with alkali-earth metal halogenides. Radiation Physics and Chemistry, 2022, 196, 110135.	2.8	0
6	Formation and Evolution of H ₂ C ₃ O ⁺ Radical Cations: A Computational and Matrix Isolation Study. Journal of the American Chemical Society, 2022, 144, 8115-8128.	13.7	7
7	Effect of irradiation on poly(acrylic acid)-polyethyleneimine interpolyelectrolyte complexes: An electron paramagnetic resonance study. Radiation Physics and Chemistry, 2022, 197, 110198.	2.8	1
8	The Radiation Chemistry of NH ₃ ⋯CO Complex in Cryogenic Media as Studied by Matrix Isolation. Journal of Physical Chemistry A, 2022, 126, 3893-3902.	2.5	7
9	Radiation-induced transformations of HCN⋯C ₂ H ₂ , HCN⋯C ₂ H ₄ and HCN⋯C ₂ H ₆ complexes in noble gas matrices: Synthesis of C ₃ H _x N molecules in cryogenic media. Radiation Physics and Chemistry, 2021, 180, 109232.	2.8	10
10	Matrix isolation in laboratory astrochemistry: state-of-the-art, implications and perspective. Russian Chemical Reviews, 2021, 90, 1142-1165.	6.5	14
11	A hydrogen-bonded CHF ₃ ⋯HF complex: IR spectra and unusual photochemistry. Journal of Chemical Physics, 2021, 154, 104310.	3.0	7
12	Direct evidence for a single-step radiation-induced assembling of benzene ring from acetylene trimer at cryogenic temperatures. Radiation Physics and Chemistry, 2021, 183, 109417.	2.8	4
13	C ₂ H ₂ ⋯CO complex and its radiation-induced transformations: a building block for cold synthetic astrochemistry. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3499-3510.	4.4	6
14	Radiation-induced transformations of difluoromethane in noble gas matrices. Radiation Physics and Chemistry, 2021, 189, 109672.	2.8	5
15	Direct evidence for a radiation-induced synthesis of acetonitrile and isoacetonitrile from a 1:1 CH ₄ ⋯HCN complex at cryogenic temperatures: is it a missing link between inorganic and prebiotic astrochemistry?. Physical Chemistry Chemical Physics, 2021, 23, 18449-18460.	2.8	8
16	Radiation-induced transformations of acetaldehyde molecules at cryogenic temperatures: a matrix isolation study. Physical Chemistry Chemical Physics, 2021, 24, 419-432.	2.8	8
17	Controlled radiation-chemical synthesis of metal polymer nanocomposites in the films of interpolyelectrolyte complexes: Principles, prospects and implications. Radiation Physics and Chemistry, 2020, 169, 108076.	2.8	22
18	Generation of spatially ordered metal-polymer nanostructures in the irradiated dispersions of poly(acrylic acid)-poly(vinylimidazole)-Cu ²⁺ complexes. Colloid and Polymer Science, 2020, 298, 193-202.	2.1	7

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19	Quantitative assessment of the absorbed dose in cryodeposited noble-gas films under X-ray irradiation: Simulation vs. experiment. Radiation Physics and Chemistry, 2020, 177, 109084.	2.8	17
20	Radiation-induced transformations of isolated toluene molecules in low-temperature matrices: Towards better understanding of molecular radiation chemistry in condensed phases. Radiation Physics and Chemistry, 2020, 176, 109022.	2.8	6
21	Reactions of radiation-induced electrons with carbon dioxide in inert cryogenic films: matrix tuning of the excess electron interactions in solids. Physical Chemistry Chemical Physics, 2020, 22, 14155-14161.	2.8	2
22	Radiation-induced synthesis of formic acid in the H ₂ Oâ€“CO system: A matrix isolation study. Chemical Physics Letters, 2020, 753, 137540.	2.6	12
23	Radiation-induced macrocycle cleavage in crown ether complexes with Sr(II) and Y(III) chlorides: A comparative study. Radiation Physics and Chemistry, 2020, 176, 109023.	2.8	2
24	A hydrogen-bonded CH ₂ F ₂ â€“CO complex: ab initio and matrix isolation study. Journal of Molecular Structure, 2020, 1221, 128784.	3.6	3
25	Radiation-Induced Transformation of CHF ₃ â€“CO to the CF ₃ â€“CO Complex: Matrix Isolation and Ab Initio Study. Journal of Physical Chemistry A, 2020, 124, 1954-1958.	2.5	6
26	Carbene-insertion noble gas compounds: FKrCF and FXeCF. Chemical Physics Letters, 2020, 744, 137211.	2.6	11
27	Hafnium Oxide as a Nanoradiosensitizer under X-ray Irradiation of Aqueous Organic Systems: A Model Study Using the Spin-Trapping Technique and Monte Carlo Simulations. Journal of Physical Chemistry C, 2019, 123, 27375-27384.	3.1	12
28	Conformational insight into radiation-chemical transformations of dicyclohexano-18-crown-6 complexes with alkaline earth metal chlorides: Effect of cation size. Radiation Physics and Chemistry, 2019, 164, 108368.	2.8	5
29	The HKrCCHâ€“CO ₂ complex: an ab initio and matrix-isolation study. Physical Chemistry Chemical Physics, 2019, 21, 3656-3661.	2.8	8
30	Formation and interconversion of CCN and CNC radicals resulting from the radiation-induced decomposition of acetonitrile in solid noble gas matrices. Physical Chemistry Chemical Physics, 2019, 21, 13014-13021.	2.8	13
31	Radiation-Induced Transformations of C ₆ H ₆ Molecules in Solid Noble-Gas Matrices: Is Benzene Intrinsically Resistant in Condensed Media?. Journal of Physical Chemistry A, 2019, 123, 5199-5205.	2.5	18
32	A one-pot radiation-chemical synthesis of metal-polymeric nanohybrides in solutions of vinyltriazole containing gold ions. Mendeleev Communications, 2019, 29, 158-159.	1.6	9
33	Radiation-induced preparation of metal nanostructures in coatings of interpolyelectrolyte complexes. Radiation Physics and Chemistry, 2019, 162, 23-30.	2.8	14
34	Stability of dry Phage Lambda DNA irradiated with swift heavy ions. Radiation Physics and Chemistry, 2019, 162, 194-198.	2.8	4
35	CHF ₃ â€“H ₂ O complex revisited: a matrix isolation and ab initio study. Structural Chemistry, 2019, 30, 559-566.	2.0	9
36	Radiation-induced synthesis of copper nanostructures in the films of interpolymer complexes. Radiation Physics and Chemistry, 2019, 158, 115-121.	2.8	20

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37	Matrix Isolation and Ab Initio Study on the $\text{CHF}_3 \cdots \text{H}_2\text{O} \cdots \text{CO}$ Complex. Journal of Physical Chemistry A, 2018, 122, 4042-4047.	2.5	9
38	Photochemistry of the $\text{H}_2\text{O}/\text{CO}$ System Revisited: The $\text{HXeOH} \cdots \text{H}_2\text{O} \cdots \text{CO}$ Complex in a Xenon Matrix. Journal of Physical Chemistry A, 2018, 122, 159-166.	2.5	5
39	Evidence for Indirect Action of Ionizing Radiation in 18-Crown-6 Complexes with Halogenous Salts of Strontium: Simulation of Radiation-Induced Transformations in Ionic Liquid/Crown Ether Compositions. Journal of Physical Chemistry B, 2018, 122, 1992-2000.	2.6	7
40	Radiation-induced preparation of bimetallic nanoparticles in the films of interpolyelectrolyte complexes. Radiation Physics and Chemistry, 2018, 142, 65-69.	2.8	13
41	Role of anions in radiation-induced transformations of 18-crown-6 complexes with barium salts: simulating the effects of extraction mechanism on radiation stability of macrocyclic extractants. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 1901-1911.	1.5	4
42	X-ray radiolysis of C_2 hydrocarbons in cryogenic media. Radiation Physics and Chemistry, 2018, 151, 253-260.	2.8	22
43	Effect of Noncovalent Interactions on Vibronic Transitions: An Experimental and Theoretical Study of the $\text{C}_2\text{H}_2 \cdots \text{H}_2\text{O} \cdots \text{CO}$ Complex. ChemPhysChem, 2017, 18, 949-958.	2.1	9
44	Mechanism of the radiation-induced transformations of fluoroform in solid noble gas matrixes. Radiation Physics and Chemistry, 2017, 138, 60-66.	2.8	11
45	Conformational Switching of HOCO Radical: Selective Vibrational Excitation and Hydrogen-Atom Tunneling. Journal of the American Chemical Society, 2017, 139, 9551-9557.	13.7	30
46	Experimental determination of the absolute infrared absorption intensities of formyl radical HCO. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 187, 39-42.	3.9	15
47	Communication: A hydrogen-bonded difluorocarbene complex: <i>Ab initio</i> and matrix isolation study. Journal of Chemical Physics, 2017, 147, 131102.	3.0	15
48	Radiation-induced transformations of isolated CH_3CN molecules in noble gas matrices. Radiation Physics and Chemistry, 2017, 141, 363-368.	2.8	21
49	Characterization of the $\text{HCN} \cdots \text{CO}$ complex and its radiation-induced transformation to $\text{HNC} \cdots \text{CO}$ in cold media: an experimental and theoretical investigation. Physical Chemistry Chemical Physics, 2017, 19, 24348-24356.	2.8	23
50	Spectroscopic characterization of the complex of vinyl radical and carbon dioxide: Matrix isolation and <i>ab initio</i> study. Journal of Chemical Physics, 2017, 147, 184301.	3.0	9
51	Stereoisomeric effect in low temperature radiolysis of dicyclohexano-18-crown-6 complexes with BaCl_2 . Radiation Physics and Chemistry, 2017, 130, 379-384.	2.8	3
52	VUV photochemistry of the $\text{H}_2\text{O} \cdots \text{CO}$ complex in noble-gas matrices: formation of the $\text{OH} \cdots \text{CO}$ complex and the HOCO radical. Physical Chemistry Chemical Physics, 2017, 19, 356-365.	2.8	27
53	Radiothermoluminescence of n-eicosane mixtures with n-tetracosane: Effect of mixture composition. High Energy Chemistry, 2016, 50, 184-188.	0.9	0
54	Matrix isolation and <i>ab initio</i> study on HCN/CO_2 system and its radiation-induced transformations: Spectroscopic evidence for $\text{HCN} \cdots \text{CO}_2$ and <i>trans</i> - $\text{HCNH} \cdots \text{CO}_2$ complexes. Journal of Chemical Physics, 2016, 145, 214309.	3.0	23

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55	Mechanisms of Radiation-Induced Degradation of CFC13 and CF2Cl2 in Noble-Gas Matrixes: An Evidence for π -Hot-Ionic Channels in the Solid Phase. Journal of Physical Chemistry A, 2016, 120, 7847-7858.	2.5	12
56	Radiation-induced transformations of methanol molecules in low-temperature solids: a matrix isolation study. Physical Chemistry Chemical Physics, 2016, 18, 32503-32513.	2.8	36
57	Multiplicity of radiothermoluminescence curves of n-tetracosane. High Energy Chemistry, 2016, 50, 245-248.	0.9	0
58	Radiothermoluminescence of linear polyethylene with extended-chain crystals. High Energy Chemistry, 2016, 50, 16-20.	0.9	0
59	Ion-radical intermediates of the radiation-chemical transformations of organic carbonates. Radiation Physics and Chemistry, 2016, 124, 19-25.	2.8	5
60	Radiation-induced intermediates in irradiated glassy ionic liquids at low temperature. Radiation Physics and Chemistry, 2016, 124, 26-29.	2.8	2
61	Matrix isolation model studies on the radiation-induced transformations of small molecules of astrochemical and atmospheric interest. Radiation Physics and Chemistry, 2016, 124, 7-13.	2.8	36
62	Structure and properties of the radiation-induced intermediates produced from HCN in noble gas matrices. Radiation Physics and Chemistry, 2016, 124, 30-37.	2.8	22
63	Radiation-induced transformations of matrix-isolated formic acid: evidence for the $\text{HCOOH} \rightarrow \text{HOCO} + \text{H}$ channel. Physical Chemistry Chemical Physics, 2015, 17, 30648-30658.	2.8	27
64	Kinetics and mechanism of the radiation-chemical synthesis of krypton hydrides in solid krypton matrices. Radiation Physics and Chemistry, 2015, 110, 17-23.	2.8	15
65	Matrix-Isolation Studies on the Radiation-Induced Chemistry in $\text{H}_2\text{O}/\text{CO}_2$ Systems: Reactions of Oxygen Atoms and Formation of HOCO Radical. Journal of Physical Chemistry A, 2015, 119, 2578-2586.	2.5	51
66	IR-spectroscopic manifestation of the diacetyl radical anion produced by irradiation of diacetyl in a dimethyl ether matrix at 7K. Mendeleev Communications, 2015, 25, 267-268.	1.6	0
67	Efficient size control of copper nanoparticles generated in irradiated aqueous solutions of star-shaped polyelectrolyte containers. Physical Chemistry Chemical Physics, 2015, 17, 11490-11498.	2.8	19
68	The low temperature radiolysis of cis-syn-cis- dicyclohexano-18-crown-6 complexes with alkaline earth metal nitrates: An evidence for energy transfer to the macrocyclic ligand. Radiation Physics and Chemistry, 2015, 115, 183-188.	2.8	5
69	Radiation-induced radicals in different polymorphic modifications of d-mannitol: Structure, conformations and dosimetric implications. Radiation Physics and Chemistry, 2015, 117, 178-183.	2.8	6
70	Structure and Reactions of Aliphatic Bridged Bifunctional Radical Ions: Exploring Fine-Tuning in Radiation Chemistry. Israel Journal of Chemistry, 2014, 54, 284-291.	2.3	3
71	Changes in the radiothermoluminescence curve of crystalline regions of polyethylene during storage of its irradiated samples in liquid nitrogen. High Energy Chemistry, 2014, 48, 17-23.	0.9	4
72	Controlling the size and distribution of copper nanoparticles in double and triple polymer metal complexes by X-ray irradiation. Radiation Physics and Chemistry, 2014, 94, 62-65.	2.8	19

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73	Radiothermoluminescence of surface layers of n-tetracosane crystals. High Energy Chemistry, 2014, 48, 244-247.	0.9	2
74	EPR and IR Spectroscopy of Free Radicals and Radical Ions Produced by Radiation in Solid Systems. , 2014, , 151-187.		21
75	EPR Evidence for a Physically Trapped Excess Electron in a Glassy Ionic Liquid. Journal of Physical Chemistry Letters, 2013, 4, 2896-2899.	4.6	13
76	Photolabile xenon hydrides: A case study of HXeSH and HXeH. Journal of Chemical Physics, 2013, 139, 124315.	3.0	30
77	Radical intermediates of low temperature radiolysis of di- <i>tert</i> -butylcyclohexano-18-crown-6/1-octanol extractant. Radiochimica Acta, 2013, 101, 51-56.	1.2	1
78	Reactions of excess electrons with α -amidoesters in low-temperature matrices. Radiation Physics and Chemistry, 2013, 85, 147-151.	2.8	4
79	Localization of radiation damages in X-rays irradiated cis-syn-cis-dicyclohexano-18-crown-6 and its inclusion complex with BaCl ₂ . Radiation Physics and Chemistry, 2013, 87, 40-45.	2.8	5
80	X-ray Induced Formation of Metal Nanoparticles from Interpolyelectrolyte Complexes with Copper and Silver Ions: The Radiation-Chemical Contrast. Journal of Physical Chemistry C, 2013, 117, 7286-7293.	3.1	27
81	The radiation-induced chemistry in solid xenon matrices. Low Temperature Physics, 2012, 38, 766-773.	0.6	12
82	Effect of molecular structure on fragmentation of isolated organic molecules in solid rare gas matrices. Radiation Physics and Chemistry, 2012, 81, 1434-1439.	2.8	12
83	Phototransformations of methylsubstituted oxiranes TM radical cations in freonic matrices at 77 K. Moscow University Chemistry Bulletin, 2012, 67, 59-71.	0.6	3
84	Spatial Organization of a Metal-Polymer Nanocomposite Obtained by the Radiation-Induced Reduction of Copper Ions in the Poly(Allylamine)-Poly(Acrylic Acid)-Cu ²⁺ System. Mendeleev Communications, 2012, 22, 211-212.	1.6	15
85	Organic Radical Cations and Neutral Radicals Produced by Radiation in Low-Temperature Matrices. Progress in Theoretical Chemistry and Physics, 2012, , 25-69.	0.2	3
86	The structure and photochemical transformation of cyclopropylacetylene radical cation as revealed by matrix EPR and quantum chemical study. Chemical Physics Letters, 2012, 536, 68-71.	2.6	0
87	Phototransformations of methylsubstituted oxiranes TM radical cations. High Energy Chemistry, 2012, 46, 183-193.	0.9	9
88	Communication: Stabilization of radical anions with weakly bound electron in condensed media: A case study of diacetyl radical anion. Journal of Chemical Physics, 2011, 135, 101103.	3.0	14
89	The role of stable free radicals in the radiation-induced conductivity of low-density polyethylene. High Energy Chemistry, 2011, 45, 48-51.	0.9	3
90	The formation of metal nanoparticles in polyacrylic acid-polyethyleneimine complex upon reduction of copper(II) ions using X-ray irradiation. High Energy Chemistry, 2011, 45, 99-103.	0.9	17

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91	Fragmentation of the primary radical cations of methoxyacetone and acetonylacetone in a solid argon matrix. High Energy Chemistry, 2011, 45, 351-352.	0.9	6
92	Formation of metal-polymer hybrid nanostructures during radiation-induced reduction of metal ions in poly(acrylic acid)-poly(ethylenimine) complexes. Polymer Science - Series C, 2011, 53, 61-67.	1.7	18
93	Reversible photochemical transformations of cis- and trans-2,3-dimethyloxirane radical cations in freonic matrices at 77K. Mendelev Communications, 2011, 21, 153-154.	1.6	14
94	The nature and photochemistry of 2,2-dimethyloxirane radical cations in freonic matrices at 77K. Mendelev Communications, 2011, 21, 155-156.	1.6	9
95	An ESR study of radiation-chemical transformation of 4,4'-di-(tert-butylcyclohexano)-18-crown-6 and its solution in 1-octanol at 77ÅK. Journal of Radioanalytical and Nuclear Chemistry, 2010, 284, 641-645.	1.5	6
96	Radiolysis of aqueous solutions of poly(vinyl alcohol) at 77K. Radiation Physics and Chemistry, 2010, 79, 876-879.	2.8	5
97	Structure and photochemical rearrangement of the 3,3-dimethylbut-1-yne radical cation. Mendelev Communications, 2010, 20, 205-206.	1.6	5
98	From triple interpolyelectrolyte-metal complexes to polymer-metal nanocomposites. Advances in Colloid and Interface Science, 2010, 158, 84-93.	14.7	39
99	Direct visualization of the Hâ€“Xe bond in xenon hydrides: Xenon isotopic shift in the IR spectra. Journal of Chemical Physics, 2009, 131, 151101.	3.0	30
100	Matrix-isolation and ab initio study of HXeCCH complexed with acetylene. Chemical Physics Letters, 2009, 481, 83-87.	2.6	32
101	Radiolysis of aqueous DCH18C6 solutions at 77 K. Journal of Radioanalytical and Nuclear Chemistry, 2009, 279, 647-653.	1.5	11
102	Radiation chemistry of polymers. High Energy Chemistry, 2009, 43, 1-18.	0.9	32
103	Reduction of copper(II) ions in polyacrylic acid-polyethyleneimine complexes using X-ray radiation. High Energy Chemistry, 2009, 43, 100-104.	0.9	23
104	A â€˜magic bridgeâ€™: effect of methylene chain length on the photochemistry of radical cations produced from bifunctional Xâ€“(CH ₂) _n â€“Y molecules. Mendelev Communications, 2009, 19, 268-269.	1.6	5
105	Delocalized methoxyacetone radical cation: structure and reactivity. Mendelev Communications, 2008, 18, 69-70.	1.6	8
106	High-resolution EPR spectroscopy of small radicals in a solid ¹³⁶ Xe matrix. Mendelev Communications, 2008, 18, 121-122.	1.6	7
107	Radiation-chemical synthesis of crown-containing poly(ethylene oxide) hydrogels. Swelling behavior and crown ether retention. Radiation Physics and Chemistry, 2008, 77, 23-28.	2.8	10
108	Structure and photochemistry of â€˜bridgedâ€™-bifunctional radical cations: Amidoesters vs. amides. Radiation Physics and Chemistry, 2008, 77, 416-427.	2.8	8

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109	Radiation sterilisation of doxorubicin bound to poly(butyl cyanoacrylate) nanoparticles. International Journal of Pharmaceutics, 2008, 356, 325-332.	5.2	40
110	Hydrogen atoms in solid xenon: Trapping site structure, distribution, and stability as revealed by EPR studies in monoisotopic and isotopically enriched xenon matrices. Journal of Chemical Physics, 2008, 128, 214511.	3.0	30
111	Diketone Radical Cations: Ketonic and Enolic Forms As Revealed by Matrix EPR Studies and DFT Calculations. Journal of Physical Chemistry A, 2007, 111, 3294-3301.	2.5	16
112	Reactions of H atoms produced by electron irradiation of benzene in solid xenon: IR spectrum of cyclohexadienyl radical and possible involvement of HXeC ₆ H ₅ . Chemical Physics Letters, 2007, 437, 207-211.	2.6	24
113	Radiation-chemical synthesis of poly(vinyl alcohol) hydrogel containing dicyclohexano-18-crown-6. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 356-361.	1.4	8
114	Radical products of ¹³ I-radiolysis of 12-crown-4 at 77 K. High Energy Chemistry, 2007, 41, 65-70.	0.9	20
115	Positive hole transfer between organic molecules of different classes in freon matrices. High Energy Chemistry, 2007, 41, 409-414.	0.9	1
116	The peculiarities of formation of the metal nanoparticles in irradiated polymer metal complexes. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 334-338.	1.4	20
117	Stabilization and isomerization of radical cations generated by fast electron irradiation of unsaturated organic molecules in a solid argon matrix. Radiation Physics and Chemistry, 2006, 75, 106-114.	2.8	16
118	Experimental and theoretical study on the structure and reactions of 1-methoxypropane radical cations. High Energy Chemistry, 2005, 39, 77-85.	0.9	2
119	Radiolysis of Aqueous Solutions of Poly(ethylene oxide) at 77 K. High Energy Chemistry, 2005, 39, 201-206.	0.9	10
120	Chemical reactions in the xenon-acetylene systems irradiated with fast electrons at 16 K: formation of xenon-containing molecules and radicals. Russian Chemical Bulletin, 2005, 54, 1458-1466.	1.5	19
121	Structure of Radical Cations of Saturated Heterocyclic Compounds with Two Heteroatoms As Studied by Electron Paramagnetic Resonance, Electron Nuclear Double Resonance, and Density Functional Theory Calculations. Journal of Physical Chemistry A, 2005, 109, 6166-6173.	2.5	12
122	Infrared absorption and electron paramagnetic resonance studies of vinyl radical in noble-gas matrices. Journal of Chemical Physics, 2005, 123, 064318.	3.0	41
123	Effect of the Degree of Crystallinity on the Formation of Radical Ions in Irradiated Isotactic Polystyrene. Doklady Chemistry, 2004, 394, 26-30.	0.9	2
124	Radiation chemical synthesis of polyethylene oxide hydrogel containing DCH18C6 crown ether: A new approach. Journal of Radioanalytical and Nuclear Chemistry, 2004, 261, 245-248.	1.5	10
125	Organic Radical Cations and Neutral Radicals Produced by Radiation in Low-Temperature Matrices. ChemInform, 2004, 35, no.	0.0	0
126	EPR study of positive holes on phenylene vinylene chains: from dimer to polymer. Chemical Physics Letters, 2004, 389, 108-112.	2.6	12

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127	Title is missing!. Doklady Chemistry, 2003, 390, 158-161.	0.9	2
128	State of the Art and Prospects for the Future of Radiation Chemistry Research as Highlighted by International Conferences in 1998â€“2002. High Energy Chemistry, 2003, 37, 428-433.	0.9	0
129	An EPR study of positive hole transfer and trapping in irradiated frozen solutions containing aromatic traps. Radiation Physics and Chemistry, 2003, 67, 231-235.	2.8	5
130	Experimental Evidence for the Formation of HXeCCH:â€‰‰ The First Hydrocarbon with an Inserted Rare-Gas Atom. Journal of the American Chemical Society, 2003, 125, 4698-4699.	13.7	142
131	Stabilisation and reactions of aliphatic radical cations produced by fast electron irradiation in solid argon matrices. Physical Chemistry Chemical Physics, 2003, 5, 1769-1774.	2.8	39
132	Organic Radical Cations and Neutral Radicals Produced by Radiation in Low-Temperature Matrices. Progress in Theoretical Chemistry and Physics, 2003, , 363-405.	0.2	4
133	Isotopic effect on thermal mobility of atomic hydrogen in solid xenon. Journal of Chemical Physics, 2002, 116, 5708-5716.	3.0	61
134	On photochemistry of water in solid Xe: Thermal and light-induced decomposition of HXeOH and HXeH and formation of H2O2. Journal of Chemical Physics, 2002, 116, 5649-5656.	3.0	54
135	EPR study of methyl and ethyl acrylate radical cations and their transformations in low-temperature matrices. Perkin Transactions II RSC, 2002, , 687-699.	1.1	20
136	Formation and reactions of paramagnetic species in irradiated microheterogeneous copolymer systems with different electronic characteristics of components. Radiation Physics and Chemistry, 2002, 63, 75-80.	2.8	6
137	Photochemistry of 1,3-Dioxolane Radical Cations in Sulfur Hexafluoride and Freonic Matrices at 77 K. High Energy Chemistry, 2002, 36, 103-111.	0.9	3
138	Title is missing!. High Energy Chemistry, 2002, 36, 309-315.	0.9	13
139	Title is missing!. High Energy Chemistry, 2001, 35, 204-206.	0.9	3
140	Title is missing!. High Energy Chemistry, 2001, 35, 224-228.	0.9	4
141	Title is missing!. High Energy Chemistry, 2001, 35, 319-327.	0.9	10
142	Title is missing!. High Energy Chemistry, 2001, 35, 399-403.	0.9	5
143	Effect of phase condition on the low-temperature radiation-induced degradation of polycarbonate as studied by spectroscopic techniques. Polymer, 2001, 42, 1987-1993.	3.8	11
144	Matrix effects in the reactions of organic radical cations in ground and excited states in solid phase. High Energy Chemistry, 2000, 34, 236-245.	0.9	11

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145	Effect of Matrix Electronic Characteristics on Trapping and Degradation of Organic Radical Cations in Solid Rare Gases: A Case Study of Methylal Radical Cation. Journal of Physical Chemistry A, 2000, 104, 3792-3799.	2.5	31
146	Effect of matrix and substituent on the electronic structure of trapped benzene radical cations. Physical Chemistry Chemical Physics, 2000, 2, 29-35.	2.8	31
147	Ion-molecule reactions and thermal isomerization of tricyclo[4.3.0.0 ^{3,7}]nona-4,8-diene radical cations to tricyclo[4.2.1.0 ^{4,9}]nona-2,7-diene radical cations in a ¹³ I-irradiated frozen Freon matrix. Radiation Physics and Chemistry, 1999, 55, 559-563.	2.8	7
148	Radiation-induced transformations of isolated organic molecules in solid rare gas matrices. Radiation Physics and Chemistry, 1999, 55, 565-571.	2.8	59
149	An ESR study of benzene radical cation in an argon matrix: evidence for favourable stabilization of 2B _{1g} rather than 2B _{2g} state. Chemical Physics Letters, 1999, 300, 713-718.	2.6	27
150	Fragmentation and Ion-Molecule Reactions of Radical Cations of Diethylmercury as Studied by EPR and UV Spectroscopy.. Acta Chemica Scandinavica, 1998, 52, 903-910.	0.7	5
151	Radiation-induced processes in poly(alkylene terephthalates) and diethyl terephthalate: evidence for formation of cyclohexadienyl-type radicals. Polymer, 1997, 38, 3927-3930.	3.8	8
152	Further evidence for formation of xenon dihydride from neutral hydrogen atoms: a comparison of ESR and IR spectroscopic results. Chemical Physics Letters, 1997, 280, 507-512.	2.6	85
153	Structure and Properties of Hydrocarbon Radical Cations in Low-Temperature Matrices as Studied by a Combination of EPR and IR Spectroscopy.. Acta Chemica Scandinavica, 1997, 51, 181-192.	0.7	42
154	Formation and decay of transient xenon dihydride resulting from hydrocarbon radiolysis in a xenon matrix. Chemical Physics Letters, 1996, 255, 425-430.	2.6	72
155	Radiation-induced degradation of alkane molecules in solid rare gas matrices. Radiation Physics and Chemistry, 1996, 48, 261-269.	2.8	26
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