

# Vladimir I Feldman

## List of Publications by Year in descending order

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166  
papers

2,424  
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218381

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315357

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169  
docs citations

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times ranked

995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation-induced closure of the second aromatic ring: Possible way to PAH starting from a styrene-acetylene complex. <i>Radiation Physics and Chemistry</i> , 2022, 191, 109847.	1.4	3
2	Spectroscopy and radiation-induced chemistry of an atmospherically relevant CH <sub>2</sub> F <sub>2</sub> ⋯H <sub>2</sub> O complex: Evidence for the formation of CF <sub>2</sub> ⋯H <sub>2</sub> O complex as revealed by FTIR matrix isolation and ab initio study. <i>Chemosphere</i> , 2022, 291, 132967.	4.2	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. <i>Radiation Physics and Chemistry</i> , 2022, 193, 109998.	1.4	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). <i>Colloids and Interface Science Communications</i> , 2022, 47, 100602.	2.0	6
5	Evidence for effect of macrocycle symmetry on radiation-induced ring opening in 18-crown-6 complexes with alkali-earth metal halogenides. <i>Radiation Physics and Chemistry</i> , 2022, 196, 110135.	1.4	0
6	Formation and Evolution of H <sub>2</sub> C <sub>3</sub> O <sup>+</sup> Radical Cations: A Computational and Matrix Isolation Study. <i>Journal of the American Chemical Society</i> , 2022, 144, 8115-8128.	6.6	7
7	Effect of irradiation on poly(acrylic acid)-polyethyleneimine interpolyelectrolyte complexes: An electron paramagnetic resonance study. <i>Radiation Physics and Chemistry</i> , 2022, 197, 110198.	1.4	1
8	The Radiation Chemistry of NH <sub>3</sub> ⋯CO Complex in Cryogenic Media as Studied by Matrix Isolation. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3893-3902.	1.1	7
9	Radiation-induced transformations of HCN⋯C <sub>2</sub> H <sub>2</sub> , HCN⋯C <sub>2</sub> H <sub>4</sub> and HCN⋯C <sub>2</sub> H <sub>6</sub> complexes in noble gas matrices: Synthesis of C <sub>3</sub> H <sub>x</sub> N molecules in cryogenic media. <i>Radiation Physics and Chemistry</i> , 2021, 180, 109232.	1.4	10
10	Matrix isolation in laboratory astrochemistry: state-of-the-art, implications and perspective. <i>Russian Chemical Reviews</i> , 2021, 90, 1142-1165.	2.5	14
11	A hydrogen-bonded CHF⋯HF complex: IR spectra and unusual photochemistry. <i>Journal of Chemical Physics</i> , 2021, 154, 104310.	1.2	7
12	Direct evidence for a single-step radiation-induced assembling of benzene ring from acetylene trimer at cryogenic temperatures. <i>Radiation Physics and Chemistry</i> , 2021, 183, 109417.	1.4	4
13	C <sub>2</sub> H <sub>2</sub> ⋯CO complex and its radiation-induced transformations: a building block for cold synthetic astrochemistry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 3499-3510.	1.6	6
14	Radiation-induced transformations of difluoromethane in noble gas matrices. <i>Radiation Physics and Chemistry</i> , 2021, 189, 109672.	1.4	5
15	Direct evidence for a radiation-induced synthesis of acetonitrile and isoacetonitrile from a 1:1 CH <sub>4</sub> ⋯HCN complex at cryogenic temperatures: is it a missing link between inorganic and prebiotic astrochemistry?. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18449-18460.	1.3	8
16	Radiation-induced transformations of acetaldehyde molecules at cryogenic temperatures: a matrix isolation study. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 419-432.	1.3	8
17	Controlled radiation-chemical synthesis of metal polymer nanocomposites in the films of interpolyelectrolyte complexes: Principles, prospects and implications. <i>Radiation Physics and Chemistry</i> , 2020, 169, 108076.	1.4	22
18	Generation of spatially ordered metal⋯polymer nanostructures in the irradiated dispersions of poly(acrylic acid)⋯poly(vinylimidazole)⋯Cu <sup>2+</sup> complexes. <i>Colloid and Polymer Science</i> , 2020, 298, 193-202.	1.0	7

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19	Quantitative assessment of the absorbed dose in cryodeposited noble-gas films under X-ray irradiation: Simulation vs. experiment. <i>Radiation Physics and Chemistry</i> , 2020, 177, 109084.	1.4	17
20	Radiation-induced transformations of isolated toluene molecules in low-temperature matrices: Towards better understanding of molecular radiation chemistry in condensed phases. <i>Radiation Physics and Chemistry</i> , 2020, 176, 109022.	1.4	6
21	Reactions of radiation-induced electrons with carbon dioxide in inert cryogenic films: matrix tuning of the excess electron interactions in solids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14155-14161.	1.3	2
22	Radiation-induced synthesis of formic acid in the H <sub>2</sub> O–CO system: A matrix isolation study. <i>Chemical Physics Letters</i> , 2020, 753, 137540.	1.2	12
23	Radiation-induced macrocycle cleavage in crown ether complexes with Sr(II) and Y(III) chlorides: A comparative study. <i>Radiation Physics and Chemistry</i> , 2020, 176, 109023.	1.4	2
24	A hydrogen-bonded CH <sub>2</sub> F <sub>2</sub> –CO complex: ab initio and matrix isolation study. <i>Journal of Molecular Structure</i> , 2020, 1221, 128784.	1.8	3
25	Radiation-Induced Transformation of CHF <sub>3</sub> –CO to the CF <sub>3</sub> –CO Complex: Matrix Isolation and Ab Initio Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1954-1958.	1.1	6
26	Carbene-insertion noble gas compounds: FKrCF and FXeCF. <i>Chemical Physics Letters</i> , 2020, 744, 137211.	1.2	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. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27375-27384.	1.5	12
28	Conformational insight into radiation-chemical transformations of dicyclohexano-18-crown-6 complexes with alkaline earth metal chlorides: Effect of cation size. <i>Radiation Physics and Chemistry</i> , 2019, 164, 108368.	1.4	5
29	The HKrCCH–CO <sub>2</sub> complex: an ab initio and matrix-isolation study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3656-3661.	1.3	8
30	Formation and interconversion of CCN and CNC radicals resulting from the radiation-induced decomposition of acetonitrile in solid noble gas matrices. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13014-13021.	1.3	13
31	Radiation-Induced Transformations of C <sub>6</sub> H <sub>6</sub> Molecules in Solid Noble-Gas Matrices: Is Benzene Intrinsically Resistant in Condensed Media?. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5199-5205.	1.1	18
32	A one-pot radiation-chemical synthesis of metal-polymeric nanohybrides in solutions of vinyltriazole containing gold ions. <i>Mendeleev Communications</i> , 2019, 29, 158-159.	0.6	9
33	Radiation-induced preparation of metal nanostructures in coatings of interpolyelectrolyte complexes. <i>Radiation Physics and Chemistry</i> , 2019, 162, 23-30.	1.4	14
34	Stability of dry Phage Lambda DNA irradiated with swift heavy ions. <i>Radiation Physics and Chemistry</i> , 2019, 162, 194-198.	1.4	4
35	CHF <sub>3</sub> –H <sub>2</sub> O complex revisited: a matrix isolation and ab initio study. <i>Structural Chemistry</i> , 2019, 30, 559-566.	1.0	9
36	Radiation-induced synthesis of copper nanostructures in the films of interpolymer complexes. <i>Radiation Physics and Chemistry</i> , 2019, 158, 115-121.	1.4	20

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37	Matrix Isolation and Ab Initio Study on the CHF <sub>3</sub> - $\hat{A}\hat{A}\hat{A}$ -CO Complex. Journal of Physical Chemistry A, 2018, 122, 4042-4047.	1.1	9
38	Photochemistry of the H <sub>2</sub> O/CO System Revisited: The HXeOH- $\hat{A}\hat{A}\hat{A}$ -CO Complex in a Xenon Matrix. Journal of Physical Chemistry A, 2018, 122, 159-166.	1.1	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.	1.2	7
40	Radiation-induced preparation of bimetallic nanoparticles in the films of interpolyelectrolyte complexes. Radiation Physics and Chemistry, 2018, 142, 65-69.	1.4	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.	0.7	4
42	X-ray radiolysis of C <sub>2</sub> hydrocarbons in cryogenic media. Radiation Physics and Chemistry, 2018, 151, 253-260.	1.4	22
43	Effect of Noncovalent Interactions on Vibronic Transitions: An Experimental and Theoretical Study of the C <sub>2</sub> H $\hat{A}\hat{A}\hat{A}$ -CO Complex. ChemPhysChem, 2017, 18, 949-958.	1.0	9
44	Mechanism of the radiation-induced transformations of fluoroform in solid noble gas matrixes. Radiation Physics and Chemistry, 2017, 138, 60-66.	1.4	11
45	Conformational Switching of HOCO Radical: Selective Vibrational Excitation and Hydrogen-Atom Tunneling. Journal of the American Chemical Society, 2017, 139, 9551-9557.	6.6	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.	2.0	15
47	Communication: A hydrogen-bonded difluorocarbene complex: <i>Ab initio</i> and matrix isolation study. Journal of Chemical Physics, 2017, 147, 131102.	1.2	15
48	Radiation-induced transformations of isolated CH <sub>3</sub> CN molecules in noble gas matrices. Radiation Physics and Chemistry, 2017, 141, 363-368.	1.4	21
49	Characterization of the HCN- $\hat{A}\hat{A}\hat{A}$ -CO complex and its radiation-induced transformation to HNC- $\hat{A}\hat{A}\hat{A}$ -CO in cold media: an experimental and theoretical investigation. Physical Chemistry Chemical Physics, 2017, 19, 24348-24356.	1.3	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.	1.2	9
51	Stereoisomeric effect in low temperature radiolysis of dicyclohexano-18-crown-6 complexes with BaCl <sub>2</sub> . Radiation Physics and Chemistry, 2017, 130, 379-384.	1.4	3
52	VUV photochemistry of the H <sub>2</sub> O- $\hat{A}\hat{A}\hat{A}$ -CO complex in noble-gas matrices: formation of the OH- $\hat{A}\hat{A}\hat{A}$ -CO complex and the HOCO radical. Physical Chemistry Chemical Physics, 2017, 19, 356-365.	1.3	27
53	Radiothermoluminescence of n-eicosane mixtures with n-tetracosane: Effect of mixture composition. High Energy Chemistry, 2016, 50, 184-188.	0.2	0
54	Matrix isolation and <i>ab initio</i> study on HCN/CO <sub>2</sub> system and its radiation-induced transformations: Spectroscopic evidence for HCN- $\hat{A}\hat{A}\hat{A}$ -CO <sub>2</sub> and <i>trans</i> -HCNH- $\hat{A}\hat{A}\hat{A}$ -CO <sub>2</sub> complexes. Journal of Chemical Physics, 2016, 145, 214309.	1.2	23

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55	Mechanisms of Radiation-Induced Degradation of $\text{CFCl}_3$ and $\text{CF}_2\text{Cl}_2$ in Noble-Gas Matrixes: An Evidence for $\text{H}^+$ -Ionic Channels in the Solid Phase. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7847-7858.	1.1	12
56	Radiation-induced transformations of methanol molecules in low-temperature solids: a matrix isolation study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32503-32513.	1.3	36
57	Multiplicity of radiothermoluminescence curves of n-tetracosane. <i>High Energy Chemistry</i> , 2016, 50, 245-248.	0.2	0
58	Radiothermoluminescence of linear polyethylene with extended-chain crystals. <i>High Energy Chemistry</i> , 2016, 50, 16-20.	0.2	0
59	Ion-radical intermediates of the radiation-chemical transformations of organic carbonates. <i>Radiation Physics and Chemistry</i> , 2016, 124, 19-25.	1.4	5
60	Radiation-induced intermediates in irradiated glassy ionic liquids at low temperature. <i>Radiation Physics and Chemistry</i> , 2016, 124, 26-29.	1.4	2
61	Matrix isolation model studies on the radiation-induced transformations of small molecules of astrochemical and atmospheric interest. <i>Radiation Physics and Chemistry</i> , 2016, 124, 7-13.	1.4	36
62	Structure and properties of the radiation-induced intermediates produced from HCN in noble gas matrices. <i>Radiation Physics and Chemistry</i> , 2016, 124, 30-37.	1.4	22
63	Radiation-induced transformations of matrix-isolated formic acid: evidence for the $\text{HCOOH} \rightarrow \text{HOCO} + \text{H}$ channel. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30648-30658.	1.3	27
64	Kinetics and mechanism of the radiation-chemical synthesis of krypton hydrides in solid krypton matrices. <i>Radiation Physics and Chemistry</i> , 2015, 110, 17-23.	1.4	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. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2578-2586.	1.1	51
66	IR-spectroscopic manifestation of the diacetyl radical anion produced by irradiation of diacetyl in a dimethyl ether matrix at 7K. <i>Mendeleev Communications</i> , 2015, 25, 267-268.	0.6	0
67	Efficient size control of copper nanoparticles generated in irradiated aqueous solutions of star-shaped polyelectrolyte containers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11490-11498.	1.3	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. <i>Radiation Physics and Chemistry</i> , 2015, 115, 183-188.	1.4	5
69	Radiation-induced radicals in different polymorphic modifications of d -mannitol: Structure, conformations and dosimetric implications. <i>Radiation Physics and Chemistry</i> , 2015, 117, 178-183.	1.4	6
70	Structure and Reactions of Aliphatic Bridged Bifunctional Radical Ions: Exploring Fine-Tuning in Radiation Chemistry. <i>Israel Journal of Chemistry</i> , 2014, 54, 284-291.	1.0	3
71	Changes in the radiothermoluminescence curve of crystalline regions of polyethylene during storage of its irradiated samples in liquid nitrogen. <i>High Energy Chemistry</i> , 2014, 48, 17-23.	0.2	4
72	Controlling the size and distribution of copper nanoparticles in double and triple polymer metal complexes by X-ray irradiation. <i>Radiation Physics and Chemistry</i> , 2014, 94, 62-65.	1.4	19

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73	Radiothermoluminescence of surface layers of n-tetracosane crystals. High Energy Chemistry, 2014, 48, 244-247.	0.2	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.	2.1	13
76	Photolabile xenon hydrides: A case study of HXeSH and HXeH. Journal of Chemical Physics, 2013, 139, 124315.	1.2	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.	0.5	1
78	Reactions of excess electrons with $\alpha$ -amidoesters in low-temperature matrices. Radiation Physics and Chemistry, 2013, 85, 147-151.	1.4	4
79	Localization of radiation damages in X-rays irradiated cis-syn-cis-dicyclohexano-18-crown-6 and its inclusion complex with BaCl <sub>2</sub> . Radiation Physics and Chemistry, 2013, 87, 40-45.	1.4	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.	1.5	27
81	The radiation-induced chemistry in solid xenon matrices. Low Temperature Physics, 2012, 38, 766-773.	0.2	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.	1.4	12
83	Phototransformations of methylsubstituted oxiranes <sup>TM</sup> radical cations in freonic matrices at 77 K. Moscow University Chemistry Bulletin, 2012, 67, 59-71.	0.2	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 <sup>2+</sup> System. Mendeleev Communications, 2012, 22, 211-212.	0.6	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.	1.2	0
87	Phototransformations of methylsubstituted oxiranes <sup>TM</sup> radical cations. High Energy Chemistry, 2012, 46, 183-193.	0.2	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.	1.2	14
89	The role of stable free radicals in the radiation-induced conductivity of low-density polyethylene. High Energy Chemistry, 2011, 45, 48-51.	0.2	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.	0.2	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.	0.2	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.	0.8	18
93	Reversible photochemical transformations of cis- and trans-2,3-dimethyloxirane radical cations in freonic matrices at 77K. Mendeleev Communications, 2011, 21, 153-154.	0.6	14
94	The nature and photochemistry of 2,2-dimethyloxirane radical cations in freonic matrices at 77K. Mendeleev Communications, 2011, 21, 155-156.	0.6	9
95	An ESR study of radiation-chemical transformation of 4,4-(5 <sup>2</sup> -di-(tert-butylcyclohexano)-18-crown-6 and its solution in 1-octanol at 77K. Journal of Radioanalytical and Nuclear Chemistry, 2010, 284, 641-645.	0.7	6
96	Radiolysis of aqueous solutions of poly(vinyl alcohol) at 77K. Radiation Physics and Chemistry, 2010, 79, 876-879.	1.4	5
97	Structure and photochemical rearrangement of the 3,3-dimethylbut-1-yne radical cation. Mendeleev Communications, 2010, 20, 205-206.	0.6	5
98	From triple interpolyelectrolyte-metal complexes to polymer-metal nanocomposites. Advances in Colloid and Interface Science, 2010, 158, 84-93.	7.0	39
99	Direct visualization of the H <sup>+</sup> Xe bond in xenon hydrides: Xenon isotopic shift in the IR spectra. Journal of Chemical Physics, 2009, 131, 151101.	1.2	30
100	Matrix-isolation and ab initio study of HXeCCH complexed with acetylene. Chemical Physics Letters, 2009, 481, 83-87.	1.2	32
101	Radiolysis of aqueous DCH18C6 solutions at 77 K. Journal of Radioanalytical and Nuclear Chemistry, 2009, 279, 647-653.	0.7	11
102	Radiation chemistry of polymers. High Energy Chemistry, 2009, 43, 1-18.	0.2	32
103	Reduction of copper(II) ions in polyacrylic acid-polyethyleneimine complexes using X-ray radiation. High Energy Chemistry, 2009, 43, 100-104.	0.2	23
104	A "magic bridge"™: effect of methylene chain length on the photochemistry of radical cations produced from bifunctional X-(CH <sub>2</sub> ) <sub>n</sub> -Y molecules. Mendeleev Communications, 2009, 19, 268-269.	0.6	5
105	Delocalized methoxyacetone radical cation: structure and reactivity. Mendeleev Communications, 2008, 18, 69-70.	0.6	8
106	High-resolution EPR spectroscopy of small radicals in a solid <sup>136</sup> Xe matrix. Mendeleev Communications, 2008, 18, 121-122.	0.6	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.	1.4	10
108	Structure and photochemistry of "bridged" bifunctional radical cations: Amidoesters vs. amides. Radiation Physics and Chemistry, 2008, 77, 416-427.	1.4	8

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109	Radiation sterilisation of doxorubicin bound to poly(butyl cyanoacrylate) nanoparticles. <i>International Journal of Pharmaceutics</i> , 2008, 356, 325-332.	2.6	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. <i>Journal of Chemical Physics</i> , 2008, 128, 214511.	1.2	30
111	Diketone Radical Cations: Ketonic and Enolic Forms As Revealed by Matrix EPR Studies and DFT Calculations. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3294-3301.	1.1	16
112	Reactions of H atoms produced by electron irradiation of benzene in solid xenon: IR spectrum of cylohexadienyl radical and possible involvement of HXeC <sub>6</sub> H <sub>5</sub> . <i>Chemical Physics Letters</i> , 2007, 437, 207-211.	1.2	24
113	Radiation-chemical synthesis of poly(vinyl alcohol) hydrogel containing dicyclohexano-18-crown-6. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 265, 356-361.	0.6	8
114	Radical products of <sup>13</sup> I-radiolysis of 12-crown-4 at 77 K. <i>High Energy Chemistry</i> , 2007, 41, 65-70.	0.2	20
115	Positive hole transfer between organic molecules of different classes in freon matrices. <i>High Energy Chemistry</i> , 2007, 41, 409-414.	0.2	1
116	The peculiarities of formation of the metal nanoparticles in irradiated polymer metal complexes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 265, 334-338.	0.6	20
117	Stabilization and isomerization of radical cations generated by fast electron irradiation of unsaturated organic molecules in a solid argon matrix. <i>Radiation Physics and Chemistry</i> , 2006, 75, 106-114.	1.4	16
118	Experimental and theoretical study on the structure and reactions of 1-methoxypropane radical cations. <i>High Energy Chemistry</i> , 2005, 39, 77-85.	0.2	2
119	Radiolysis of Aqueous Solutions of Poly(ethylene oxide) at 77 K. <i>High Energy Chemistry</i> , 2005, 39, 201-206.	0.2	10
120	Chemical reactions in the xenon-acetylene systems irradiated with fast electrons at 16 K: formation of xenon-containing molecules and radicals. <i>Russian Chemical Bulletin</i> , 2005, 54, 1458-1466.	0.4	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. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6166-6173.	1.1	12
122	Infrared absorption and electron paramagnetic resonance studies of vinyl radical in noble-gas matrices. <i>Journal of Chemical Physics</i> , 2005, 123, 064318.	1.2	41
123	Effect of the Degree of Crystallinity on the Formation of Radical Ions in Irradiated Isotactic Polystyrene. <i>Doklady Chemistry</i> , 2004, 394, 26-30.	0.2	2
124	Radiation chemical synthesis of polyethylene oxide hydrogel containing DCH18C6 crown ether: A new approach. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 261, 245-248.	0.7	10
125	Organic Radical Cations and Neutral Radicals Produced by Radiation in Low-Temperature Matrices. <i>ChemInform</i> , 2004, 35, no.	0.1	0
126	EPR study of positive holes on phenylene vinylene chains: from dimer to polymer. <i>Chemical Physics Letters</i> , 2004, 389, 108-112.	1.2	12



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127	Title is missing!. Doklady Chemistry, 2003, 390, 158-161.	0.2	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.	0.2	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.	1.4	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.	6.6	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.	1.3	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.	1.2	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.	1.2	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.	1.4	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.	0.2	3
138	Title is missing!. High Energy Chemistry, 2002, 36, 309-315.	0.2	13
139	Title is missing!. High Energy Chemistry, 2001, 35, 204-206.	0.2	3
140	Title is missing!. High Energy Chemistry, 2001, 35, 224-228.	0.2	4
141	Title is missing!. High Energy Chemistry, 2001, 35, 319-327.	0.2	10
142	Title is missing!. High Energy Chemistry, 2001, 35, 399-403.	0.2	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.	1.8	11
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