

ORAL COMMUNICATIONS



1	Kálai T. , Hideg K., Sár C. P.	Recent results in chemistry and biology of pyrroline, pyrrolidine and piperidine nitroxides
2	Likhtenshtein G.I. , Martin V.V.	Use of the luminescence quenching with nitroxides as a base for novel fluorescence biosensing: molecular dynamics of bioobject, analysis of nitric oxide, superoxide and antioxidants in a picomole scale
3	Mason R. P.	Capturing protein and DNA radicals in time and space with immuno-spin trapping
4	Möbius K.	Combining high-field EPR with site-directed spin labeling reveals unique information on proteins in action
5	Nakatsuji Sh.	Organic photo-functional spin systems based on nitroxide radicals
6	Smirnov A.I. , Ruuge A., Alaouie A., McArthur R., Venkatesan U., Reznikov V.A., Voinov M.A., Grigor`ev I.A.	Local electrostatics and pH of lipid and peptide nanotubular assemblies
7	Swartz H.M. , Walczak T.M., Lesniewski P.N., Salikhov I., Grinberg O.Y., Khan Md.N., Hou H.	Use of nitroxides and spin traps for <i>in vivo</i> EPR
8	Tamura R. , Ikuma N., Shimono S.	Preparation and properties of paramagnetic all-organic liquid crystals containing a chiral five-membered cyclic nitroxide unit within the rigid core
9	Trommer W.E.	Structure-function relationships in various enzymes as studied by means of spin-labeled proteins and substrates
10	Zaremski M.Yu. , Golubev V.B.	Nitroxides as agents of controlled synthesis of polymers

11	Ayupov A.B. , Timofeeva M.N., Volodin A.M., Echevsky G.V.	The study of acid sites of heterogeneous catalysts by ESR using adsorption of nitroxide radicals
12	Bagryanskaya E. , Zubenko D., Lebedeva N., Kirilyuk I., Roshchupkina G., Reznikov V., Marque S., Gigmes D., Bertin D., Tordo P.	ESR, TR CIDNP, SEMF CIDNP and LF photolysis studies of steric effects on the decay and reformation kinetics of imidazolidine-based alkoxyamines
13	Baumgarten M.	Multifunctional high spin molecules based on nitronyl nitroxides
14	Belle V. , Carrière F., Woudstra M., Verger R., Guigliarelli B., Fournel A.	Discrimination between closed and open forms of the human pancreatic lipase using site-directed spin labeling
15	Bobko A.A. , Kirilyuk I.A., Grigor'ev I.A., Zweier J.L., Khramtsov V.V.	Reversible mechanism of nitroxide reduction by ascorbate
16	Chechik V. , Ionita P., Gilbert B.C., Caragheorghopol A.	Probing interactions at the surface of metal nanoparticles with nitroxide spin labels
17	Clanton T. L. , Khramtsov V.V.	New insights into the mechanisms of antioxidant activity of the nitroxides and nitrones
18	Damiani E. , Castagna R., Astofi P., Greci L.	Aromatic and aliphatic mono- and bis-nitroxides: a study on their radical scavenging abilities
19	Dzuba S.A. , Kirilina E.P., Erilov D.A.	Molecular dynamics of spin from echo-detected EPR
20	Eichhoff U. , Höfer P.	Technical advances in spin labeling EPR
21	Finet J.-P. , Bardelang D., Jicsinsky L., Karoui H., Rockenbauer A., Tordo P.	Synthesis and EPR study of a stable β -cyclodextrin-bound nitroxide

22	Grishin D.	Nitroxyl radicals and its sources in controlled radical polymerization: experimental and quantum-chemical investigation
23	Khramtsov V.V.	Biological imaging and spectroscopy of pH: important application for pH-sensitive nitroxides
24	Kirilyuk I.A. , Roshchupkina G.I., Reznikov V.A., Bobko A.A., Komarov D.A., Khramtsov V.V., Irtegoва I.G., Zhurko I.F., Grigor`ev I.A.	New nitroxide spin probes for biomedical research
25	Kokorin A.I.	Intramolecular spin exchange in nitroxide biradicals
26	Konovalova T.A. , Kispert L.D.	Application of spin trapping, high-field and pulsed EPR to characterize heme protein radicals
27	Kovaleva E.G. , Hartmann M., Medyantseva E., Molochnikov L.S., Govindasamy Ch., Grigor`ev I.A.	pH spin probe characterization of mesoporous materials
28	Kulik L.V.	Spontaneous ESEEM in nitroxide radicals
29	Lahti P.M. , Baskett M., Field L.M., Oliveira Jr. N.F., Paduan-Filho A., Morón M.C., Palacio F.	Coordination complexes of paramagnetic dications with nitroxide-based radical ligands: loops, chains, and networks.
30	Livshits V. A.	Structure and molecular dynamics of cyclodextrin complexes with spin-labeled guests
31	Nesvadba P. , Bugnon L.	Beyond TEMPO: synthesis of cyclic sterically highly hindered nitroxides and alkoxyamines
32	Nohl H. , Staniek K., Kozlov A.V.	Mitochondria have a nitrite reductase involved in recycling nitric monoxide from nitrite
33	Ovcharenko V.I.	Breathing Crystals
34	Raap J. , Milov A.D., Tsvetkov Yu.D., Formaggio F., Crisma M., Toniolo C.	Self-assembling membrane active peptides probed by nitroxide spin labels
35	Rey P. , Hirel C., Li L., Pécaut J.	Polymorphism and new copper-nitroxide spin-transition species

36	Sár C.P., Ósz E., Jekő J., Hideg K.	Synthesis of spiro[pyrrolidine-2,2'-adamantane] nitrones and nitroxides
37	Savitsky A., Dubinskii A.A., Grishin Yu.A., Möbius K.	Orientation-resolved pulsed dipolar EPR in W-band
38	Timofeev V.P.	The simulation EPR spectra of spin-labeled macromolecules. The historical abstract and further development.
39	Tretyakov E.V., Ovcharenko V.I.	A new family of nitronyl and imino nitroxides
40	Tsvetkov, Yu. D., Milov A.D., Raap J.	Double electron-electron resonance (PELDOR): application to studies of nitroxide biradicals and spin labeled peptides properties.
41	Tuccio B., Allouch A., Lauricella R., Roubaud V., Bouteiller J.-C.,	A new approach to the determination of rate constants for the superoxide trapping by nitrones
42	Villamena F. A., Locigno E.J., Zweier J.L.	Nitric oxide release from the unimolecular decomposition of the superoxide radical anion adduct of cyclic nitrones in aqueous medium
43	Voinov M.A., Polienko J.F., Schanding T., Bobko A.A., Khramtsov V.V., Smirnov A.I., Grigor'ev I.A.	exo-N,N-Disubstituted amidines of Imidazoline nitroxide series: Synthesis and characterization as pH spin probes
44	Vorobiev A.Kh.	Numerical simulation of ESR spectra of nitroxides as a method of investigation.
45	Wasserman A.M., Motyakin M.V., Aliev A.A., Yashina L.L., Zakcharova Yu.A., Otdelnova M.V., Rogovina L.Z.	ESR spin probe and spin label study of some new polymer systems
46	Weiner L., Bilkis I., Yavin E., Arad-Yellin R., Shanzer A., Eliash T., Sheves M.	Nitroxyl radicals as a tool for electron transfer studies

POSTER SECTION

1	Astolfi P. , Damiani E., Cionna L., Ippoliti F., Greci L.	Synthesis and application of a novel sunscreen-antioxidant
2	Ayupov A.B. , Volodin A.M., Echevsky G.V.	Formation of radical pairs after adsorption of 2,2',5,5'-tetramethyl-4-phenyl-3-imidazoline-1-oxyl on the acid sites of beta zeolites
3	Becker C. , Roshchupkina G., Reznikov V.	Transformations of enamines of Imidazolidine nitroxide series in the Vilsmeier reaction
4	Bedilo A.F. , Volodin A.M., Malykhin S.E.	NO as a spin probe for investigation of the active sites of oxide catalysts
5	Bilkis I.I.	Nonradical transformations of free radicals. Theoretical investigation
6	Bogomyakov A.S. , Tretyakov E.V., Ovcharenko V.I.	Porphyrexide chemistry
7	Bowman M.K. , Cape J.L., Kramer D.M., Rosen G.M.	Superoxide production in cytochrome <i>bc₁</i> bypass reactions
8	Burdukov A. , Pervkhina N., Boguslavskii E., Reznikov V., Vershinin M., Voloshin Ya.	Possible approach to novel nitroxides employing nioxime-derived clathrochelates
9	Campredon M. , Luccioni-Houzé B., Alberti A., Macciantelli D.	Synthesis and investigations of photochromic traps in solution and polymer
10	Chernova D.A. , Vorobiev A.Kh.	Molecular motion of adsorbed nitroxide radicals studied by ESR.
11	Chumakova N.A. , Vorobiev A.Kh.	Determination of orientation distribution function of paramagnetic species by analysis of ESR spectra angular dependence.
12	Danilenko A.M. , Boguslavsky E.G., Nadolnny V.A.	Usage of the spin probe for analysis of texture of graphite oxide films

13	Døssing A. , Frey A.M.	Reactivity of pentakis(acetonitrile)nitrosylchromium(2+)
14	Drapkine V.Z. , Bogachev Yu.V., German K.V., Knyazev M.N., Serdyuk A.S.	Specialized NO detection EPR spectrometer
15	Dultseva G.G. , Dubtsov S.N., Skubnevskaya G.I.	Spin trapping as a tool to study the mechanism of photochemical gas-to-particle conversion in aldehyde vapor
16	Fukui K. , Morita Ya., Kawai J., Sato K., Shiomi D., Nakasuji K., Takui T.	Self-association dimer of nitronyl nitroxide: ESR and theoretical studies on molecular and electronic structures
17	Gorelik E.V. , Shvedenkov Yu.G., Romanenko G.V., Tretyakov E.V., Ovcharenko V.I.	Ab initio study of exchange coupled dimers in solid nitronyl nitroxides
18	Grampp G. , Tran V.A., Rasmussen K., Kokorin A.	Effect of the solvent nature on spin exchange in rigid nitroxide biradicals
19	Hochkirch U. , Herrmann W., Stoesser R., Borchert H.H., Linscheid M.W.	The influence of UV light on human skin – an <i>ex vivo</i> study using mass spectrometry and spatially resolved EPR
20	Inoue K. , Kishine J., Kumagai H., Akita M.	Chiral spin order in molecule-based magnets
21	Ismailova A.I. , Gainutdinov K.L., Gnezdilov O.I., Muranova L.N., Obynochny A.A., Yurtaeva S.V., Salikhov K.M.	The determination of NO radicals by method of EPR-spectroscopy in biological tissues at temperature 77 K
22	Ivanova A.S. , Terakh E.I., Kandalintseva N.V., Grigor'ev I.A.	Comparative study of antioxidant ability of nitroxides, hydroxylamines, nitrones and phenols
23	Kálai T. , Jekő J., Hideg K.	Suzuki reactions of paramagnetic vinyl halides and synthesis of paramagnetic boronic acids
24	Kagan E. Sh. , Kashparova V.P., Zhukova I.Yu., Vlasova E.V.	Electrochemical synthesis of 2,2,6,6-tetramethylpiperidine-1-oxyl: mechanism and application
25	Kawamori A. , Yamada Sh., Matsuda Yu.	TEMPONE EPR applied to plant cell physiology
26	Khlestkin V.K. , Duda T.A., Salnikov E.S., Sveshnikova L.L., Semenova O.I., Dzyuba S.A.	LB film of nitronyl nitroxide with long-chain alkyl group

27	Kinoshita Y. , Yamada K., Nagai M., Sakai K., Utsumi H.	Simultaneous separate imaging of ^{14}N and ^{15}N nitroxyl radicals using proton-electron double-resonance imaging (PEDRI) technique
28	Kirilyuk I.A. , Dikalov S.I., Voinov M.A., Grigor'ev I.A.	Quantitative detection of superoxide using cyclic hydroxylamines. Comparison with nitron spin traps
29	Konovalova T.A. , Lawrence J., Kispert L.D.	EPR spin trapping detection of oxygen radicals in irradiated TiO_2 nanoparticles modified by carotenoids
30	Lauricella R. , Bouteiller J.-C., Tuccio B.	Evidence of overestimation of rate constants for the superoxide trapping by nitrones in aqueous media
31	Lauricella R. , El Hassan I., Tuccio B.	A new pathway to β -fluorinated nitroxides
32	Makarova K.V. , Apanasovich V.V., Hemminga M.A.	Modelling and analysis of ESR spectra in membrane protein systems
33	Malievskii A. , Shapiro A.B., Koroteev S.V.	Kinetic and thermodynamic characteristics of hydrogen atom exchange reaction in hindered hydroxyl-amine-nitroxide radical systems
34	Mikhailov A.I. , Kuzina S.I., Shilova I.A.	Free radical labels and probes in synthetic and nature polymers
35	Molochnikov L.S. , Kovalyova E.G., Medyantseva E.L., Kirilyuk I.A., Grigor'ev I.A.	Determining of acidity inside inorganic materials pores using pH spin probe method
36	Nadolinny V.A. , Ivanova V.N., Korenev S.V., Burdukov A.B.	The structure and photochemical stability of nitroxyl derivatives
37	Nakamura H. , Kameya H., Matoba A., Ukai M., Shimoyama Y.	Synthesis and electron spin resonance characterization of biradical molecules containing $^{14}\text{N-O}$ and $^{15}\text{N-O}$ moieties
38	Nesvadba P. , Bugnon L.	New rearrangement of dithiocarbonic acid S-methyl ester-O-(2,2,6,6-tetramethyl-piperidin-1-yl) ester

39	Obynochny A.A. , Iyudin V.S., Mambetov A.R., Salikhov K.M.	Electron spin polarization in the mixed hematoporphyrin IX–TEMPO–oxygen solutions as studied by time-resolved EPR
40	Pečar S. , Mravljak J.	Development of amphiphilic nitroxides for cellular surface characterization
41	Polovyanenko D.N. , Bobko A.A., Potapenko D.I., Reznikov V.A., Kirilyuk I.A., Khramtsov V.V., Bagranskaya E.G.	EPR spin trapping and time-resolved CIDNP study of the reactions of nitronyl nitroxides and nitron spin traps with alkyl and thiyl radicals.
42	Polienko Y.F. , Voinov M.A., Schanding T., Grigor'ev I.A.	4-R-Amino 3-imidazoline 1-oxyls: a novel approach to the R-alkylamino chain modification
43	Polyakov N.E. , Leshina T.V., Konovalova T.A., Kispert L.D.	The scavenging ability of natural antioxidants examined by the EPR spin trapping technique.
44	Potapenko D.I. , Foster M.A., Kirilyuk I.A., Lurie D.J., Hutchison J.M.S., Grigor'ev I.A., Bagryanskaya E.G., Khramtsov V.V.	The use of two-pKa nitroxide radicals for pH measurements in stomach of living rats.
45	Roubaud V. , Bouteiller J.-C., Lauricella R., Tuccio B.	First results of spin adducts detection by RP-HPLC
46	Salnikov E.S. , Erilov D.A., Dzuba S.A., Raap J.	Location of spin-labeled trichogin GA IV in a model phospholipid membrane as revealed with electron spin echo envelope modulation (ESEEM)
47	Sen` V.D. , Golubev V.A.	Autoreduction mechanism of 2,2,6,6-tetramethyl-1,4-dioxopiperidinium perchlorate to nitroxyl radical in aqueous solution
48	Shakirov S. , Purtov P., Grishin Yu., Bagryanskaya E.	Electron spin exchange relaxation of radicals with I=1/2 and I=1 in low and zero magnetic fields
49	Shapiro A.B. , Malievskii A.D.	Synthesis and properties of mercurio- and thallium-organic nitroxyl radicals
50	Shapiro A.B. , Malievskii A.D.	PTC stimulated reactions of a nitroxide diradical bearing two activated double bonds in the molecule with 2,2,6,6-tetramethyl-4-oxopiperidine-1-oxyl and with N-methylated diamagnetic analog of the latter
51	Shapiro A.B. , Malievskii A.D., Timofeev V.P.	Benzoinolopyrrolidine and benzotetrahydrocarbolene-based nitroxide radicals with positively charged aliphatic chains as perspective DNA intercalators

52	Shilova I.A. , Mikhailov A.I.	Application of spin-labeled substances for investigation of diffusional processes in medical polymers
53	Shimono S. , Tamura R., Ikuma N., Yamauchi J.	Molecular orientation of chiral paramagnetic organic liquid crystals in a magnetic field
54	Slepneva I.A. , Komarov D.A., Glupov V.V., Khramtsov V.V.	Spin trapping studies of free radicals generation in haemolymph of insects
55	Sorokina K.N. , Letyagin A.Yu., Tolstikova T.G., Fursova E.Yu., Savelov A.A., Ovcharenko V.I.	Nitroxides as MR-contrast agents
56	Stass D.V. , Potapov A.T., Fursova E.Yu., Lukzen N.N., Romanenko G.V., Ovcharenko V.I., Molin Yu.N.	CW ESR and FT-IR study of rare-earth metal complexes with paramagnetic ligands
57	Stavitski E. , Rozenshtein V., Berg A., Levanon H.	Electron spin polarization in fullerene-TEMPO complexes
58	Timofeev V.P. , Novikow V.V., Tkachev Ya. V., Lapuk V.A.	A Spin-label dynamics study of flexibility of IgM rheumatoid monoclonal fab fragment
59	Timofeev V.P. , Tkachev Ya.V., Novikow, V.V.	Approach for spin-labeled macromolecules spectra simulation using molecular dynamics trajectories and two-motional model
60	Tolstikov S.E. , Tretyakov E.V., Romanenko G.V., Ovcharenko V.I.	New spin labeled pyrazoles
61	Tuccio B. , Najjar F., André-Barrès C., Lauricella R.	EPR/spin trapping study of the spontaneous addition of O ₂ on a dienol
62	Veber S.L. , Fedin M.V., Baryanskaya E.G.	EPR study of thermally induced spin transitions in copper-nitroxide clusters
63	Yamada K. , Yamamiya I., Utsumi H.	<i>In Vivo</i> detection of free radicals induced by diethylnitrosamine (DEN) in rat
64	Zawada K. , Paradowska K.	Antioxidant Properties of Anthocyanidins and Anthocyanins as Studied with TEMPOL and Fremy's Salt Radical

