Olga B Morozova

List of Publications by Year
in descending order

62 papers	1,145 citations	361413 20 h-index	434195 31 g-index
64 all docs	64 docs citations	64 times ranked	472 citing authors

#	Article	IF	Citations
1	Kinetics and Mechanism of the Photochemical Reaction of 2,2â€˜-Dipyridyl with Tryptophan in Water:â€‰ Time-Resolved CIDNP and Laser Flash Photolysis Study. Journal of Physical Chemistry A, 1999, 103, 5362-5368.	2.5	68
2	Time-Resolved CIDNP and Laser Flash Photolysis Study of the Photoreactions of N-Acetyl Histidine with 2,2â€˜-Dipyridyl in Aqueous Solution. Journal of Physical Chemistry A, 2000, 104, 6912-6916.	2.5	62
3	Time-resolved CIDNP: an NMR way to determine the EPR parameters of elusive radicals. Physical Chemistry Chemical Physics, 2011, 13, 6619.	2.8	60
4	Electron Transfer between Guanosine Radical and Amino Acids in Aqueous Solution. 1. Reduction of Guanosine Radical by Tyrosine. Journal of Physical Chemistry B, 2007, 111, 7439-7448.	2.6	55
5	H and¹³C Hyperfine Coupling Constants of the Tryptophanyl Cation Radical in Aqueous Solution from Microsecond Time-Resolved CIDNP. Journal of Physical Chemistry B, 2007, 111, 11221-11227.	2.6	51
6	Time resolved CIDNP study of electron transfer reactions in proteins and model compounds. Molecular Physics, 2002, 100, 1187-1195.	1.7	49
7	Influence of Molecular Structure on the Rate of Intersystem Crossing in Flexible Biradicals. Journal of Physical Chemistry A, 1997, 101, 8809-8816.	2.5	45
8	Laser flash photolysis and time resolved CIDNP study of photoreaction of 2,2â€²-dipyridyl with N-acetyl tyrosine in aqueous solutions. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 131, 33-40.	3.9	43
9	Timeâ€Resolved Chemically Induced Dynamic Nuclear Polarization of Biologically Important Molecules. ChemPhysChem, 2019, 20, 197-215.	2.1	41
10	Intramolecular Electron Transfer in Tryptophanâˆ’Tyrosine Peptide in Photoinduced Reaction in Aqueous Solution. Journal of Physical Chemistry B, 2003, 107, 1088-1096.	2.6	36
11	Time-Resolved CIDNP Study of Intramolecular Charge Transfer in the Dipeptide Tryptophan-Tyrosine. Journal of Physical Chemistry B, 2002, 106, 1455-1460.	2.6	32
12	Time-Resolved Chemically Induced Dynamic Nuclear Polarization Studies of Structure and Reactivity of Methionine Radical Cations in Aqueous Solution as a Function of pH. Journal of Physical Chemistry A, 2005, 109, 10459-10466.	2.5	30
13	1H and13C Nuclear Polarization in Consecutive Biradicals during the Photolysis of 2,2,12,12-Tetramethylcyclododecanone. Journal of Physical Chemistry A, 1997, 101, 399-406.	2.5	27
14	Electron Transfer between Guanosine Radicals and Amino Acids in Aqueous Solution. II. Reduction of Guanosine Radicals by Tryptophan. Journal of Physical Chemistry B, 2008, 112, 2747-2754.	2.6	26
15	Reversibility of Electron Transfer in Tryptophanâˆ’Tyrosine Peptide in Acidic Aqueous Solution Studied by Time-Resolved CIDNP. Journal of Physical Chemistry B, 2005, 109, 3668-3675.	2.6	23
16	Intramolecular Electron Transfer in the Photooxidized Peptides Tyrosineâ€“Histidine and Histidineâ€“Tyrosine: A Timeâ€Resolved CIDNP Study. Angewandte Chemie - International Edition, 2010, 49, 7996-7999.	13.8	22
17	Electron transfer <i>vs.</i> proton-coupled electron transfer as the mechanism of reaction between amino acids and triplet-excited benzophenones revealed by time-resolved CIDNP. Physical Chemistry Chemical Physics, 2018, 20, 21127-21135.	2.8	22
18	Time-Resolved CIDNP Study of Native-State Bovine and Human Î±-Lactalbumins. Journal of Physical Chemistry B, 2004, 108, 15355-15363.	2.6	21

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19	Intramolecular Electron Transfer in Lysozyme Studied by Time-Resolved Chemically Induced Dynamic Nuclear Polarization. Journal of Physical Chemistry B, 2005, 109, 21971-21978.	2.6	21
20	Effect of Amino Group Charge on the Photooxidation Kinetics of Aromatic Amino Acids. Journal of Physical Chemistry A, 2014, 118, 339-349.	2.5	21
21	Time-resolved CIDNP and laser flash photolysis study of the photoreaction between triplet 2,2â€²-dipyridyl and guanosine-5â€²-monophosphate in water. Physical Chemistry Chemical Physics, 2003, 5, 3653-3659.	2.8	20
22	Study of Consecutive Biradicals from 2-Hydroxy-2,12-dimethylcyclododecanone by TR-CIDNP, TREPR, and Laser Flash Photolysis. Journal of Physical Chemistry A, 1997, 101, 8803-8808.	2.5	19
23	Consecutive Biradicals during the Photolysis of 2,12-Dihydroxy-2,12-dimethylcyclododecanone:Â Low- and High-Field Chemically Induced Dynamic Nuclear Polarizations (CIDNP) Study. Journal of Physical Chemistry A, 1998, 102, 3492-3497.	2.5	19
24	Spin and Molecular Dynamics of Biradicals as Studied by Low Field Nuclear Polarization at Variable Temperature. Journal of Physical Chemistry A, 1999, 103, 980-988.	2.5	19
25	Aminium Cation Radical of Glycylglycine and its Deprotonation to Aminyl Radical in Aqueous Solution. Journal of Physical Chemistry B, 2008, 112, 12859-12862.	2.6	18
26	Modulation of the Rate of Reversible Electron Transfer in Oxidized Tryptophan and Tyrosine Containing Peptides in Acidic Aqueous Solution. Journal of Physical Chemistry B, 2015, 119, 140-149.	2.6	17
27	Light-induced spin hyperpolarisation in condensed phase. Molecular Physics, 2017, 115, 2907-2943.	1.7	17
28	Photooxidation of Histidine by 3,3â€²,4,4â€²-Benzophenone Tetracarboxylic Acid in Aqueous Solution: Time-Resolved and Field-Dependent CIDNP Study. Applied Magnetic Resonance, 2014, 45, 1019-1033.	1.2	16
29	The influence of scavenging on CIDNP field dependences in biradicals during the photolysis of large-ring cycloalkanones. Chemical Physics, 1995, 197, 157-166.	1.9	14
30	Photo-CIDNP Study of Transient Radicals of Met-Gly and Gly-Met Peptides in Aqueous Solution at Variable pH. Journal of Physical Chemistry B, 2009, 113, 7398-7406.	2.6	14
31	Spin and Molecular Dynamics in Acyl-Containing Biradicals:Â Time-Resolved Electron Paramagnetic Resonance and Laser Flash Photolysis Study. Journal of Physical Chemistry A, 2002, 106, 7121-7129.	2.5	13
32	Time-Resolved CIDNP Study of Non-Native States of Bovine and Human Î±-Lactalbumins. Journal of Physical Chemistry B, 2005, 109, 5912-5918.	2.6	11
33	Magnetic Resonance Characterization of One-Electron Oxidized Cyclic Dipeptides with Thioether Groups. Journal of Physical Chemistry B, 2016, 120, 9277-9286.	2.6	11
34	Changing the Direction of Intramolecular Electron Transfer in Oxidized Dipeptides Containing Tryptophan and Tyrosine. Journal of Physical Chemistry B, 2012, 116, 12221-12226.	2.6	10
35	Oxidation of Purine Nucleotides by Triplet 3,3â€²,4,4â€²-Benzophenone Tetracarboxylic Acid in Aqueous Solution: pH-Dependence. Journal of Physical Chemistry A, 2014, 118, 4966-4974.	2.5	10
36	Proton-coupled electron transfer as the mechanism of reaction between triplet state of kynurenic acid and tryptophan. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 396, 112522.	3.9	10

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37	Cross-relaxation mechanism for the formation of nuclear polarization: a quantitative time-resolved CIDNP study. Chemical Physics Letters, 1995, 246, 499-505.	2.6	9
38	Deprotonation of Transient Guanosyl Cation Radical Catalyzed by Buffer in Aqueous Solution: TR-CIDNP Study. Applied Magnetic Resonance, 2011, 41, 239-250.	1.2	9
39	Reduction of Guanosyl Radical by Cysteine and Cysteine-Glycine Studied by Time-Resolved CIDNP. Journal of Physical Chemistry B, 2012, 116, 8058-8063.	2.6	9
40	Indirect NMR detection of transient guanosyl radical protonation in neutral aqueous solution. Physical Chemistry Chemical Physics, 2017, 19, 21262-21266.	2.8	9
41	Molecular features toward high photo-CIDNP hyperpolariztion explored through the oxidocyclization of tryptophan. Physical Chemistry Chemical Physics, 2021, 23, 6641-6650.	2.8	9
42	Effects of Surfactants on the Photosensitized Production of Tyrosine Radicals Studied by Photo-CIDNPÂ¶. Photochemistry and Photobiology, 2002, 75, 6.	2.5	9
43	1H CIDNP study of the kinetics and mechanism of the reversible photoinduced oxidation of tryptophyl-tryptophan dipeptide in aqueous solutions. Russian Chemical Bulletin, 2011, 60, 2579-2587.	1.5	8
44	CIDNP study of sensitized photooxidation of S-methylcysteine and S-methylglutathione in aqueous solution. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 90-98.	3.9	8
45	Kinetics of Reversible Protonation of Transient Neutral Guanine Radical in Neutral Aqueous Solution. ChemPhysChem, 2018, 19, 2696-2702.	2.1	8
46	TR-CIDNP as tool for quantitative analysis of hyperfine couplings in elusive radicals. Doklady Physical Chemistry, 2009, 428, 183-188.	0.9	7
47	Reduction of Guanosyl Radicals in Reactions with Proteins Studied by TR-CIDNP. Applied Magnetic Resonance, 2013, 44, 233-245.	1.2	6
48	Chemically induced dynamic nuclear polarization study of the reduction of histidine radical in the reactions with aromatic amino acids. Russian Chemical Bulletin, 2016, 65, 2907-2913.	1.5	6
49	Relation between CIDNP formed upon geminate and bulk recombination of radical pairs. Journal of Chemical Physics, 2017, 147, 024303.	3.0	6
50	Quantitative Approach to CIDNP in Proteins with Several Polarizable Residues on the Surface. Applied Magnetic Resonance, 2011, 41, 251-266.	1.2	5
51	Influence of the charge of amino group on photoinduced oxidation of histidine. Doklady Physical Chemistry, 2013, 449, 66-70.	0.9	5
52	Intramolecular Electron Transfer from Tryptophan to Guanosyl Radicals in a Linked System as a Model of DNA Repair. Zeitschrift Fur Physikalische Chemie, 2017, 231, 479-495.	2.8	5
53	Reduction of transient histidine radicals by tryptophan: influence of the amino group charge. Physical Chemistry Chemical Physics, 2021, 23, 5919-5926.	2.8	5
54	Synthesis of nucleotideâ€"amino acid conjugates designed for photo-CIDNP experiments by a phosphotriester approach. Beilstein Journal of Organic Chemistry, 2013, 9, 2898-2909.	2.2	4

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55	Assessment of Nanosecond Time Scale Motions in Native and Non-Native States of Ubiquitin. Journal of Physical Chemistry B, 2015, 119, 12644-12652.	2.6	4
56	Competition of singlet and triplet recombination of radical pairs in photoreactions of carboxy benzophenones and aromatic amino acids. Physical Chemistry Chemical Physics, 2019, 21, 2017-2028.	2.8	4
57	Kynurenic acid and its chromophoric core 4-hydroxyquinoline react with tryptophan <i>via</i> proton-coupled electron transfer, and with tyrosine <i>via</i> H-transfer. Physical Chemistry Chemical Physics, 2021, 23, 22483-22491.	2.8	4
58	Reduction of Transient Histidine Radicals by Tyrosine: Influence of the Protonation State of Reactants. ChemPhysChem, 2020, 21, 43-50.	2.1	3
59	Exchange interaction in short-lived flavine adenine dinucleotide biradical in aqueous solution revisited by CIDNP (chemically induced dynamic nuclear polarization) and nuclear magnetic relaxation dispersion. Magnetic Resonance, 2021, 2, 139-148.	1.9	2
60	Reduction of Thymine Radicals by Tryptophan: a Study of CIDNP Kinetics. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113761.	3.9	2
61	Influence of the charge of amino group on rate and direction of intramolecular electron transfer reaction in shortlived oxidized peptides containing tryptophan and tyrosine. Doklady Physical Chemistry, 2013, 452, 233-238.	0.9	1
62	Kinetic evidence for the transiently shifted acidity constant of histidine linked to paramagnetic tyrosine probed by intramolecular electron transfer in oxidized peptides. Physical Chemistry Chemical Physics, 2021, 23, 16698-16706.	2.8	1