

Jana Zdarova Karasova

List of Publications by Year in descending order

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99
papers

1,211
citations

430442

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476904

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99
docs citations

99
times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	A Resurrection of 7-MEOTA: A Comparison with Tacrine. <i>Current Alzheimer Research</i> , 2013, 10, 893-906.	0.7	92
2	An evaluation of therapeutic and reactivating effects of newly developed oximes (K156, K203) and commonly used oximes (obidoxime, trimedoxime, HI-6) in tabun-poisoned rats and mice. <i>Toxicology</i> , 2008, 243, 311-316.	2.0	77
3	Novel tacrine-tryptophan hybrids: Multi-target directed ligands as potential treatment for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2019, 168, 491-514.	2.6	75
4	Colorimetric dipstick for assay of organophosphate pesticides and nerve agents represented by paraoxon, sarin and VX. <i>Talanta</i> , 2010, 81, 621-624.	2.9	70
5	Oximes: Inhibitors of Human Recombinant Acetylcholinesterase. A Structure-Activity Relationship (SAR) Study. <i>International Journal of Molecular Sciences</i> , 2013, 14, 16882-16900.	1.8	38
6	Passive diffusion of acetylcholinesterase oxime reactivators through the blood-brain barrier: Influence of molecular structure. <i>Toxicology in Vitro</i> , 2010, 24, 1838-1844.	1.1	36
7	The Development of New Oximes and the Evaluation of their Reactivating, Therapeutic and Neuroprotective Efficacy Against Tabun. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 1134-1143.	1.1	30
8	Could oxime HI-6 really be considered as "broad-spectrum" antidote?. <i>Journal of Applied Biomedicine</i> , 2009, 7, 143-149.	0.6	28
9	Pharmacokinetic study of two acetylcholinesterase reactivators, trimedoxime and newly synthesized oxime K027, in rat plasma. <i>Journal of Applied Toxicology</i> , 2013, 33, 18-23.	1.4	27
10	Partition of bispyridinium oximes (trimedoxime and K074) administered in therapeutic doses into different parts of the rat brain. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 54, 1082-1087.	1.4	26
11	Prophylaxis and Post-exposure Treatment of Intoxications Caused by Nerve Agents and Organophosphorus Pesticides. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 2102-2115.	1.1	24
12	Concentration of Donepezil in the Cerebrospinal Fluid of AD Patients: Evaluation of Dosage Sufficiency in Standard Treatment Strategy. <i>Neurotoxicity Research</i> , 2017, 31, 162-168.	1.3	23
13	Time-dependent Changes in Concentration of Two Clinically used Acetylcholinesterase Reactivators (HI-6 and Obidoxime) in Rat Plasma Determined by HPLC Techniques after in vivo Administration. <i>Analytical Sciences</i> , 2010, 26, 63-67.	0.8	22
14	In vitro screening of blood-brain barrier penetration of clinically used acetylcholinesterase reactivators. <i>Journal of Applied Biomedicine</i> , 2010, 8, 35-40.	0.6	22
15	Time-Dependent Changes of Oxime K027 Concentrations in Different Parts of Rat Central Nervous System. <i>Neurotoxicity Research</i> , 2013, 23, 63-68.	1.3	21
16	Translation of in vitro to in vivo pyridinium oxime potential in tabun poisoning / Translacija uÅinkovitosti piridinijevih oksima kod trovanja tabunom iz in vitro sustava u in vivo primjenu. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2015, 66, 291-298.	0.4	21
17	The influence of combinations of oximes on the reactivating and therapeutic efficacy of antidotal treatment of tabun poisoning in rats and mice. <i>Journal of Applied Toxicology</i> , 2010, 30, 120-124.	1.4	20
18	Activity of cholinesterases in a young and healthy middle-European population: Relevance for toxicology, pharmacology and clinical praxis. <i>Toxicology Letters</i> , 2017, 277, 24-31.	0.4	20

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19	A Comparison of neuroprotective efficacy of newly developed oximes (K203, K206) and commonly used oximes (obidoxime, HI-6) in tabun-poisoned rats. <i>Drug and Chemical Toxicology</i> , 2009, 32, 128-138.	1.2	19
20	Two Possibilities How to Increase the Efficacy of Antidotal Treatment of Nerve agent Poisonings. <i>Mini-Reviews in Medicinal Chemistry</i> , 2012, 12, 24-34.	1.1	18
21	Effect of five acetylcholinesterase reactivators on tabun-intoxicated rats: induction of oxidative stress versus reactivation efficacy. <i>Journal of Applied Toxicology</i> , 2009, 29, 483-488.	1.4	17
22	Novel Bisquaternary Oximes—Reactivation of Acetylcholinesterase and Butyrylcholinesterase Inhibited by Paraoxon. <i>Molecules</i> , 2009, 14, 4915-4921.	1.7	17
23	Effect of Several New and Currently Available Oxime Cholinesterase Reactivators on Tabun-intoxicated Rats. <i>International Journal of Molecular Sciences</i> , 2008, 9, 2243-2252.	1.8	16
24	Time-Course Changes of Acetylcholinesterase Activity in Blood and Some Tissues in Rats After Intoxication by Russian VX. <i>Neurotoxicity Research</i> , 2009, 16, 356-360.	1.3	16
25	Pharmacokinetic profile of promising acetylcholinesterase reactivators K027 and K203 in experimental pigs. <i>Toxicology Letters</i> , 2017, 273, 20-25.	0.4	15
26	Pharmacokinetics of acetylcholinesterase reactivator K203 and consequent evaluation of low molecular weight antioxidants/markers of oxidative stress. <i>Journal of Applied Biomedicine</i> , 2012, 10, 71-78.	0.6	14
27	The Concentration of Memantine in the Cerebrospinal Fluid of Alzheimer's Disease Patients and Its Consequence to Oxidative Stress Biomarkers. <i>Frontiers in Pharmacology</i> , 2019, 10, 943.	1.6	13
28	Effect of Seven Newly Synthesized and Currently Available Oxime Cholinesterase Reactivators on Cyclosarin-Intoxicated Rats. <i>International Journal of Molecular Sciences</i> , 2009, 10, 3065-3075.	1.8	12
29	A comparison of reactivating and therapeutic efficacy of the oxime K203 and its fluorinated analog (KR-22836) with currently available oximes (obidoxime, trimedoxime, HI-6) against tabun in rats and mice. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2010, 25, 480-484.	2.5	12
30	Square wave voltammetry on screen printed electrodes: comparison to ferric reducing antioxidant power in plasma from model laboratory animal (Grey Partridge) and comparison to standard antioxidants. <i>Journal of Applied Biomedicine</i> , 2011, 9, 103-109.	0.6	12
31	Is a high dose of Huperzine A really suitable for pretreatment against high doses of soman?. <i>Journal of Applied Biomedicine</i> , 2009, 7, 93-99.	0.6	12
32	Changes of rat plasma total low molecular weight antioxidant level after tabun exposure and consequent treatment by acetylcholinesterase reactivators. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2011, 26, 93-97.	2.5	11
33	A comparison of the reactivating and therapeutic efficacy of the newly developed bispyridinium oxime K203 with currently available oximes, in sarin poisoned rats and mice. <i>Journal of Applied Biomedicine</i> , 2011, 9, 225-230.	0.6	11
34	A comparison of the neuroprotective efficacy of individual oxime (HI-6) and combinations of oximes (HI-6+trimedoxime, HI-6+K203) in soman-poisoned rats. <i>Drug and Chemical Toxicology</i> , 2011, 34, 233-239.	1.2	11
35	A comparison of reactivating and therapeutic efficacy of newly-developed oximes (K156, K203) and commonly used oximes (obidoxime, HI-6) in cyclosarin-poisoned rats and mice. <i>Toxicology Mechanisms and Methods</i> , 2009, 19, 346-350.	1.3	10
36	The influence of combinations of oximes on the reactivating and therapeutic efficacy of antidotal treatment of soman poisoning in rats and mice. <i>Toxicology Mechanisms and Methods</i> , 2009, 19, 547-551.	1.3	10

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37	The New Acetylcholinesterase Inhibitors PC 37 and PC 48 (7-Methoxytacrine-Donepezil-Like Compounds): Characterization of Their Metabolites in Human Liver Microsomes, Pharmacokinetics and <i>In Vivo</i> Formation of the Major Metabolites in Rats. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 122, 373-382.	1.2	10
38	Encapsulation of oxime K027 into cucurbit[7]uril: In vivo evaluation of safety, absorption, brain distribution and reactivation effectiveness. <i>Toxicology Letters</i> , 2020, 320, 64-72.	0.4	10
39	Tabun-inhibited rat tissue and blood cholinesterases and their reactivation with the combination of trimesoxime and HI-6 in vivo. <i>Chemico-Biological Interactions</i> , 2010, 187, 287-290.	1.7	9
40	The Benefit of Combinations of Oximes for the Reactivating and Therapeutic Efficacy of Antidotal Treatment of Sarin Poisoning in Rats and Mice. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2011, 109, 30-34.	1.2	9
41	Small Quaternary Inhibitors K298 and K524: Cholinesterases Inhibition, Absorption, Brain Distribution, and Toxicity. <i>Neurotoxicity Research</i> , 2016, 29, 267-274.	1.3	9
42	Structure-activity relationships of dually-acting acetylcholinesterase inhibitors derived from tacrine on N-methyl-D-Aspartate receptors. <i>European Journal of Medicinal Chemistry</i> , 2021, 219, 113434.	2.6	9
43	In Vitro Screening of Blood-Brain Barrier Penetration of Monoquaternary Acetylcholinesterase Reactivators. <i>Analytical Letters</i> , 2010, 43, 1516-1524.	1.0	8
44	A Comparison of the Reactivating and Therapeutic Efficacy of Chosen Combinations of Oximes With Individual Oximes Against VX in Rats and Mice. <i>International Journal of Toxicology</i> , 2011, 30, 562-567.	0.6	8
45	A Comparison of the Potency of a Novel Bispyridinium Oxime K203 and currently available Oximes (Obidoxime, HI-6) to Counteract the Acute Neurotoxicity of Sarin in Rats. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2012, 111, n/a-n/a.	1.2	8
46	The Evaluation of the Reactivating and Neuroprotective Efficacy of Two Newly Prepared Bispyridinium Oximes (K305, K307) in Tabun-Poisoned Rats—A Comparison with Trimesoxime and the Oxime K203. <i>Molecules</i> , 2017, 22, 1152.	1.7	8
47	Interaction of Cucurbit[7]uril with Oxime K027, Atropine, and Paraoxon: Risky or Advantageous Delivery System?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7883.	1.8	8
48	A Comparison of the Therapeutic and Reactivating Efficacy of Newly Developed Oximes (K117, K127) and Currently Available Oximes (Obidoxime, Trimesoxime, HI-6) in Tabun-Poisoned Rats and Mice. <i>Drug and Chemical Toxicology</i> , 2008, 31, 371-381.	1.2	7
49	The present approaches to the development of prophylactic and therapeutic antidotes against nerve agents. <i>Interdisciplinary Toxicology</i> , 2008, 1, 18-21.	1.0	7
50	A Comparison of Neuroprotective Efficacy of the Oxime K203 and its Fluorinated Analogue (KR 22836) with Obidoxime in Tabun-Poisoned Rats. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2010, 107, 861-867.	1.2	7
51	Therapeutic efficacy of a novel bispyridinium oxime K203 and commonly used oximes (HI-6, obidoxime, Tj ETQq1 1 0.784314 rgBT /Ove 7-13.	0.6	7
52	Entry of oxime K027 into the different parts of rat brain: Comparison with obidoxime and oxime HI-6. <i>Journal of Applied Biomedicine</i> , 2014, 12, 25-29.	0.6	7
53	An HPLC-MS method for the quantification of new acetylcholinesterase inhibitor PC 48 (7-MEOTA-donepezil like compound) in rat plasma: Application to a pharmacokinetic study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1020, 85-89.	1.2	7
54	The pharmacokinetic parameters and the effect of a single and repeated doses of memantine on gastric myoelectric activity in experimental pigs. <i>PLoS ONE</i> , 2020, 15, e0227781.	1.1	7

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55	Development of versatile and potent monoquaternary reactivators of acetylcholinesterase. Archives of Toxicology, 2021, 95, 985-1001.	1.9	7
56	Methylacridinium and its Cholinergic Properties. Neurotoxicity Research, 2009, 16, 372-377.	1.3	6
57	Combined approach to demonstrate acetylcholinesterase activity changes in the rat brain following tabun intoxication and its treatment. Toxicology Mechanisms and Methods, 2012, 22, 60-66.	1.3	6
58	Hyaluronidase: Its effects on HI-6 dichloride and dimethanesulphonate pharmacokinetic profile in pigs. Toxicology Letters, 2013, 220, 167-171.	0.4	6
59	Comparison of the neuroprotective effects of a novel bispyridinium oxime KR-22934 with the oxime K203 and obidoxime in tabun-poisoned male rats. Journal of Applied Biomedicine, 2014, 12, 111-117.	0.6	6
60	Characterization of the Penetration of the Blood-Brain Barrier by High-Performance Liquid Chromatography (HPLC) Using a Stationary Phase with an Immobilized Artificial Membrane. Analytical Letters, 2018, 51, 2401-2414.	1.0	6
61	Determination of Hypericin in <i>Hypericum perforatum</i> (St. John's Wort) Using Classical C18 and Pentafluorophenyl Stationary Phases: Contribution of π - π Interactions to High-Performance Liquid Chromatography (HPLC). Analytical Letters, 2019, 52, 1788-1812.	1.0	6
62	Tacrine and its 7-methoxy derivat; time-change concentration in plasma and brain tissue and basic toxicological profile in rats. Drug and Chemical Toxicology, 2021, 44, 207-214.	1.2	6
63	The Impact of Dextran Sodium Sulfate-Induced Gastrointestinal Injury on the Pharmacokinetic Parameters of Donepezil and Its Active Metabolite 6-O-desmethyldonepezil, and Gastric Myoelectric Activity in Experimental Pigs. Molecules, 2021, 26, 2160.	1.7	6
64	A comparison of the ability of newly-developed bispyridinium oxime K203 and currently available oximes (trimedoxime, obidoxime, HI-6) to counteract the acute neurotoxicity of soman in rats. Toxicology Mechanisms and Methods, 2010, 20, 445-451.	1.3	5
65	Neuroprotective efficacy of newly developed oximes in comparison with currently available oximes in tabun-poisoned rats. Journal of Applied Biomedicine, 2015, 13, 39-46.	0.6	5
66	1-Benzyl-4-methylpiperidinyl moiety in donepezil: The priority ticket across the blood-brain-barrier in rats. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1092, 350-358.	1.2	5
67	Determination of K869, a Novel Oxime Reactivator of Acetylcholinesterase, in Rat Body Fluids and Tissues by Liquid-Chromatography Methods: Pharmacokinetic Study. Journal of Pharmaceutical Sciences, 2021, 110, 1842-1852.	1.6	5
68	Novel D2/5-HT receptor modulators related to cariprazine with potential implication to schizophrenia treatment. European Journal of Medicinal Chemistry, 2022, 232, 114193.	2.6	5
69	A comparison of the neuroprotective efficacy of newly developed oximes (K117, K127) and currently available oxime (obidoxime) in tabun-poisoned rats. Toxicology Mechanisms and Methods, 2009, 19, 232-238.	1.3	4
70	A comparison of the reactivating and therapeutic efficacy of newly developed oximes (K347, K628) with commonly used oximes (obidoxime, HI-6) against tabun in rats and mice. Drug and Chemical Toxicology, 2010, 33, 227-232.	1.2	4
71	Development of small bisquaternary cholinesterase inhibitors as drugs for pre-treatment of nerve agent poisonings. Drug Design, Development and Therapy, 2018, Volume 12, 505-512.	2.0	4
72	Simple validated method of LC-MS/MS determination of BZ agent in rat plasma samples. Drug Testing and Analysis, 2020, 12, 431-438.	1.6	4

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73	The Ability of Oxime Mixtures to Increase the Reactivating and Therapeutic Efficacy of Antidotal Treatment of Cyclosarin Poisoning in Rats and Mice. <i>Acta Medica (Hradec Kralove)</i> , 2012, 55, 27-31.	0.2	4
74	A Comparison of the Neuroprotective Efficacy of Newly Developed Oximes (K156, K203) and Currently Available Oximes (Obidoxime, HI-6) in Cyclosarin-poisoned Rats. <i>Acta Medica (Hradec Kralove)</i> , 2008, 51, 215-221.	0.2	4
75	Potency of HI-6 to Reactivate Cyclosarin, Soman and Tabun Inhibited Acetylcholinesterase " In Vivo Study. <i>Letters in Drug Design and Discovery</i> , 2010, 7, 516-520.	0.4	4
76	Donepezil and Rivastigmine: Pharmacokinetic Profile and Brain-targeting After Intramuscular Administration in Rats. <i>Iranian Journal of Pharmaceutical Research</i> , 2020, 19, 95-102.	0.3	4
77	A systematic evaluation of the cucurbit[7]uril pharmacokinetics and toxicity after a single dose and short-term repeated administration in mice. <i>Archives of Toxicology</i> , 2022, 96, 1411-1421.	1.9	4
78	Evaluation of the Neuroprotective Efficacy of Newly Developed Oximes (K206, K269) and Currently Available Oximes (Obidoxime, HI-6) in Cyclosarin-poisoned Rats. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2009, 104, 228-235.	1.2	3
79	Development of promising oximes against nerve agent and/or pesticide intoxication. <i>Main Group Chemistry</i> , 2010, 9, 355-361.	0.4	3
80	A comparison of the reactivating efficacy of a novel bispyridinium oxime K203 with currently available oximes in VX agent-poisoned rats. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 753-757.	2.5	3
81	In vitro and in vivo metabolism of 3-quinuclidinyl benzilate by high-resolution mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 190, 113519.	1.4	3
82	Memantine and Its Combination with Acetylcholinesterase Inhibitors in Pharmacological Pretreatment of Soman Poisoning in Mice. <i>Neurotoxicity Research</i> , 2021, 39, 1487-1494.	1.3	3
83	A comparison of reactivating and therapeutic efficacy of bispyridinium acetylcholinesterase reactivator KR-22934 with the oxime K203 and commonly used oximes (obidoxime, HI-6) in tabun-poisoned rats and mice. <i>Toxicology Mechanisms and Methods</i> , 2011, 21, 241-245.	1.3	2
84	Pyridostigmine bromide and its relation to Gulf War illness. <i>Toxin Reviews</i> , 2020, 39, 138-146.	1.5	2
85	3-Quinuclidinyl benzilate (agent BZ) toxicokinetics in rats. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2021, 129, 246-255.	1.2	2
86	Dextran Sodium Sulphate-Induced Gastrointestinal Injury Further Aggravates the Impact of Galantamine on the Gastric Myoelectric Activity in Experimental Pigs. <i>Pharmaceuticals</i> , 2021, 14, 590.	1.7	2
87	OXIMES AS INHIBITORS OF ACETYLHOLINESTERASE - A STRUCTURE-ACTIVITY RELATIONSHIP (SAR) STUDY. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> , 2011, 80, 178-186.	0.2	2
88	Inhibition of blood and tissue cholinesterases by soman in guinea pigs in vivo. <i>Journal of Applied Biomedicine</i> , 2011, 9, 35-41.	0.6	1
89	A comparison of neuroprotective efficacy of two novel reactivators of acetylcholinesterase called K920 and K923 with the oxime K203 and trimedoxime in tabun-poisoned rats. <i>Toxicology Mechanisms and Methods</i> , 2017, 27, 236-243.	1.3	1
90	Toxic Effects of Pesticides. <i>Ceska A Slovenska Neurologie A Neurochirurgie</i> , 2017, 80/113, 164-171.	0.0	1

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91	SCREENING OF BLOOD-BRAIN BARRIER PENETRATION USING THE IMMOBILIZED ARTIFICIAL MEMBRANE PHOSPHATIDYLCHOLINE COLUMN CHROMATOGRAPHY AT THE PHYSIOLOGICAL PH. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> , 2013, 82, 55-62.	0.2	1
92	TRANSDERMAL PENETRATION OF THE ACETYLCHOLINESTERASE REACTIVATOR HI-6 IN A RAT MODEL. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> , 2013, 82, 185-188.	0.2	1
93	The Evaluation of the Potency of Newly Developed Oximes (K727, K733) and Trimedoxime to Counteract Acute Neurotoxic Effects of Tabun in Rats. <i>Acta Medica (Hradec Kralove)</i> , 2015, 58, 135-143.	0.2	1
94	Toxicity, pharmacokinetics, and effectiveness of the ortho-chlorinated bispyridinium oxime, K870. <i>Food and Chemical Toxicology</i> , 2022, 167, 113236.	1.8	1
95	A Comparison of the Potency of Newly Developed Oximes (K347, K628) and Currently Available Oximes (Obidoxime, HI-6) to Counteract Acute Neurotoxic Effects of Tabun in Rats. <i>Acta Medica (Hradec Kralove)</i> , 2015, 58, 135-143.	0.2	1
96	A COMPARISON OF THE NEUROPROTECTIVE EFFICACY OF INDIVIDUAL OXIMES (HI-6, TRIMEDOXIME, K203) AND THEIR MIXTURES (HI-6 + TRIMEDOXIME, HI-6 + K203) IN CYCLOSARIN-POISONED RATS. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> , 2011, 80, 12-20.	0.2	0
97	METHOD OPTIMIZATION FOR ACETYLCHOLINESTERASE MODULATORS-ALBUMIN INTERACTIONS. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> , 2011, 80, 58-64.	0.2	0
98	HUMAN SERUM BUTYRYLCHOLINESTERASE AS A PROPHYLAXIS AGAINST RUSSIAN VX. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> , 2011, 80, 97-102.	0.2	0
99	Intravenous application of HI-6 salts (dichloride and dimethansulphonate) in pigs: comparison with pharmacokinetics profile after intramuscular administration. <i>Neuroendocrinology Letters</i> , 2013, 34 Suppl 2, 74-8.	0.2	0