

Miroslav Pohanka

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

260
papers

4,597
citations

34
h-index

54
g-index

306
ext. papers

5,284
ext. citations

2.7
avg, IF

6.88
L-index

#	Paper	IF	Citations
260	Cholinesterases, a target of pharmacology and toxicology. <i>Biomedical Papers of the Medical Faculty of the University Palacký&#x0301;, Olomouc, Czechoslovakia</i> , 2011 , 155, 219-29	1.7	214
259	Electrochemical biosensors - principles and applications. <i>Journal of Applied Biomedicine</i> , 2008 , 6, 57-64	0.6	184
258	Alzheimer's disease and oxidative stress: a review. <i>Current Medicinal Chemistry</i> , 2014 , 21, 356-64	4.3	148
257	Overview of Piezoelectric Biosensors, Immunosensors and DNA Sensors and Their Applications. <i>Materials</i> , 2018 , 11,	3.5	130
256	Inhibitors of acetylcholinesterase and butyrylcholinesterase meet immunity. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 9809-25	6.3	128
255	Alpha7 nicotinic acetylcholine receptor is a target in pharmacology and toxicology. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 2219-38	6.3	106
254	Acetylcholinesterase inhibitors: a patent review (2008 - present). <i>Expert Opinion on Therapeutic Patents</i> , 2012 , 22, 871-86	6.8	105
253	Assessment of acetylcholinesterase activity using indoxylacetate and comparison with the standard Ellman's method. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 2631-40	6.3	88
252	Role of oxidative stress in infectious diseases. A review. <i>Folia Microbiologica</i> , 2013 , 58, 503-13	2.8	85
251	A resurrection of 7-MEOTA: a comparison with tacrine. <i>Current Alzheimer Research</i> , 2013 , 10, 893-906	3	76
250	The Piezoelectric Biosensors: Principles and Applications, a Review. <i>International Journal of Electrochemical Science</i> , 2017 , 496-506	2.2	74
249	Caffeine inhibits acetylcholinesterase, but not butyrylcholinesterase. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 9873-82	6.3	58
248	Synthesis and in vitro evaluation of N-alkyl-7-methoxytacrine hydrochlorides as potential cholinesterase inhibitors in Alzheimer disease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 6093-5	2.9	57
247	Colorimetric dipstick for assay of organophosphate pesticides and nerve agents represented by paraoxon, sarin and VX. <i>Talanta</i> , 2010 , 81, 621-4	6.2	55
246	Iron Oxide Nanoparticles: Innovative Tool in Cancer Diagnosis and Therapy. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700932	10.1	55
245	Progress of biosensors based on cholinesterase inhibition. <i>Current Medicinal Chemistry</i> , 2009 , 16, 1790-84.3	4.3	54
244	Caffeine and cardiovascular diseases: critical review of current research. <i>European Journal of Nutrition</i> , 2016 , 55, 1331-43	5.2	50

243	Improvement of acetylcholinesterase-based assay for organophosphates in way of identification by reactivators. <i>Talanta</i> , 2008 , 77, 451-4	6.2	50
242	Mycotoxin assays using biosensor technology: a review. <i>Drug and Chemical Toxicology</i> , 2007 , 30, 253-61	2.3	49
241	Cholinesterases in Biorecognition and Biosensors Construction: A Review. <i>Analytical Letters</i> , 2013 , 46, 1849-1868	2.2	47
240	Piezoelectric biosensor for the determination of Tumor Necrosis Factor Alpha. <i>Talanta</i> , 2018 , 178, 970-973	2.3	44
239	Alzheimer's disease and related neurodegenerative disorders: implication and counteracting of melatonin. <i>Journal of Applied Biomedicine</i> , 2011 , 9, 185-196	0.6	41
238	Cold deep subduction recorded by remnants of a Paleoproterozoic carbonated slab. <i>Nature Communications</i> , 2018 , 9, 2790	17.4	40
237	Bacillus anthracis, Francisella tularensis and Yersinia pestis. The most important bacterial warfare agents - review. <i>Folia Microbiologica</i> , 2009 , 54, 263-72	2.8	40
236	The progress in the cholinesterase quantification methods. <i>Expert Opinion on Drug Discovery</i> , 2012 , 7, 1207-23	6.2	38
235	Mono-oxime bisquaternary acetylcholinesterase reactivators with prop-1,3-diyl linkage-Preparation, in vitro screening and molecular docking. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 754-62	3.4	38
234	Oxidative Stress and Heavy Metals in Plants. <i>Reviews of Environmental Contamination and Toxicology</i> , 2018 , 245, 129-156	3.5	37
233	Amperometric Biosensors for Real Time Assays of Organophosphates. <i>Sensors</i> , 2008 , 8, 5303-5312	3.8	37
232	Oxidative stress after sulfur mustard intoxication and its reduction by melatonin: efficacy of antioxidant therapy during serious intoxication. <i>Drug and Chemical Toxicology</i> , 2011 , 34, 85-91	2.3	36
231	Passive diffusion of acetylcholinesterase oxime reactivators through the blood-brain barrier: influence of molecular structure. <i>Toxicology in Vitro</i> , 2010 , 24, 1838-44	3.6	35
230	Main streams in the Construction of Biosensors and Their Applications. <i>International Journal of Electrochemical Science</i> , 2017 , 7386-7403	2.2	34
229	Monooxime-monocarbamoyl Bispyridinium Xylene-Linked Reactivators of Acetylcholinesterase-Synthesis, In vitro and Toxicity Evaluation, and Docking Studies. <i>ChemMedChem</i> , 2010 , 5, 247-54	3.7	34
228	Diagnosis of tularemia using piezoelectric biosensor technology. <i>Talanta</i> , 2007 , 71, 981-5	6.2	34
227	Biosensors for Biological Warfare Agent Detection. <i>Defence Science Journal</i> , 2007 , 57, 185-193	1.4	34
226	Biosensors for Blood Glucose and Diabetes Diagnosis: Evolution, Construction, and Current Status. <i>Analytical Letters</i> , 2015 , 48, 2509-2532	2.2	33

225	The Spectrum of Differences between Childhood and Adulthood Celiac Disease. <i>Nutrients</i> , 2015 , 7, 8733-61	3	33
224	D-Lactic Acid as a Metabolite: Toxicology, Diagnosis, and Detection. <i>BioMed Research International</i> , 2020 , 2020, 3419034	3	32
223	Biosensors and Bioassays Based on Lipases, Principles and Applications, a Review. <i>Molecules</i> , 2019 , 24,	4.8	32
222	Oxidative stress in Alzheimer disease as a target for therapy. <i>Bratislava Medical Journal</i> , 2018 , 119, 535-543	4.7	32
221	Novel tacrine/acridine anticholinesterase inhibitors with piperazine and thiourea linkers. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 435-9	7.9	31
220	Butyrylcholinesterase as a biochemical marker. <i>Bratislava Medical Journal</i> , 2013 , 114, 726-34	1.7	30
219	Preparation of the pyridinium salts differing in the length of the N-alkyl substituent. <i>Molecules</i> , 2010 , 15, 1967-72	4.8	30
218	Sulfur mustard induced oxidative stress and its alteration by epigallocatechin gallate. <i>Toxicology Letters</i> , 2011 , 201, 105-9	4.4	29
217	Ferric reducing antioxidant power and square wave voltammetry for assay of low molecular weight antioxidants in blood plasma: performance and comparison of methods. <i>Sensors</i> , 2009 , 9, 9094-103	3.8	29
216	Cholinesterase biosensor construction - a review. <i>Protein and Peptide Letters</i> , 2008 , 15, 795-8	1.9	29
215	An acetylcholinesterase-based chronoamperometric biosensor for fast and reliable assay of nerve agents. <i>Sensors</i> , 2013 , 13, 11498-506	3.8	28
214	Sulfur mustard causes oxidative stress and depletion of antioxidants in muscles, livers, and kidneys of Wistar rats. <i>Drug and Chemical Toxicology</i> , 2013 , 36, 270-6	2.3	28
213	Ascorbic acid: an old player with a broad impact on body physiology including oxidative stress suppression and immunomodulation: a review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2012 , 12, 35-43	3.2	28
212	Photography by Cameras Integrated in Smartphones as a Tool for Analytical Chemistry Represented by an Butyrylcholinesterase Activity Assay. <i>Sensors</i> , 2015 , 15, 13752-62	3.8	27
211	Flavonoid profile of Saskatoon berries (<i>Amelanchier alnifolia</i> Nutt.) and their health promoting effects. <i>Molecules</i> , 2013 , 18, 12571-86	4.8	27
210	Preparation and in vitro screening of symmetrical bis-isoquinolinium cholinesterase inhibitors bearing various connecting linkage--implications for early Myasthenia gravis treatment. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 811-8	6.8	27
209	Antioxidants countermeasures against sulfur mustard. <i>Mini-Reviews in Medicinal Chemistry</i> , 2012 , 12, 742-8	3.2	27
208	Preparation and in vitro screening of symmetrical bispyridinium cholinesterase inhibitors bearing different connecting linkage-initial study for Myasthenia gravis implications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 1763-6	2.9	27

207	Acetylcholinesterase Based Dipsticks with Indoxylacetate as a Substrate for Assay of Organophosphates and Carbamates. <i>Analytical Letters</i> , 2012 , 45, 367-374	2.2	26
206	Toxicology and the biological role of methanol and ethanol: Current view. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2016 , 160, 54-63	1.7	26
205	Lead toxicosis of captive vultures: case description and responses to chelation therapy. <i>BMC Veterinary Research</i> , 2013 , 9, 11	2.7	25
204	Chromogenic detection of Sarin by discolouring decomplexation of a metal coordination complex. <i>Chemical Communications</i> , 2013 , 49, 8946-8	5.8	25
203	Spectrophotometric methods based on 2,6-dichloroindophenol acetate and indoxylacetate for butyrylcholinesterase activity assay in plasma. <i>Talanta</i> , 2013 , 106, 281-5	6.2	25
202	Mycoplasma gallisepticum infection in the grey partridge <i>Perdix perdix</i> : outbreak description, histopathology, biochemistry and antioxidant parameters. <i>BMC Veterinary Research</i> , 2011 , 7, 34	2.7	25
201	Diagnosis of Intoxication by the Organophosphate VX: Comparison Between an Electrochemical Sensor and Ellman's Photometric Method. <i>Sensors</i> , 2008 , 8, 5229-5237	3.8	25
200	Monoclonal and polyclonal antibodies production - preparation of potent biorecognition element. <i>Journal of Applied Biomedicine</i> , 2009 , 7, 115-121	0.6	25
199	Recovery of an oxidized majorite inclusion from Earth's deep asthenosphere. <i>Science Advances</i> , 2017 , 3, e1601589	14.3	24
198	Current Trends in the Biosensors for Biological Warfare Agents Assay. <i>Materials</i> , 2019 , 12,	3.5	24
197	Piezoelectric immunosensor for the direct and rapid detection of Francisella tularensis. <i>Folia Microbiologica</i> , 2007 , 52, 325-30	2.8	24
196	Could oxime HI-6 really be considered as "broad-spectrum" antidote?. <i>Journal of Applied Biomedicine</i> , 2009 , 7, 143-149	0.6	24
195	Copper, aluminum, iron and calcium inhibit human acetylcholinesterase in vitro. <i>Environmental Toxicology and Pharmacology</i> , 2014 , 37, 455-9	5.8	23
194	Piezoelectric Immunosensor for Francisella tularensis Detection Using Immunoglobulin M in a Limiting Dilution. <i>Analytical Letters</i> , 2005 , 38, 411-422	2.2	23
193	Copper and copper nanoparticles toxicity and their impact on basic functions in the body. <i>Bratislava Medical Journal</i> , 2019 , 120, 397-409	1.7	22
192	Oxime K027: novel low-toxic candidate for the universal reactivator of nerve agent- and pesticide-inhibited acetylcholinesterase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2010 , 25, 509-12	5.6	22
191	Quantum Dots in the Therapy: Current Trends and Perspectives. <i>Mini-Reviews in Medicinal Chemistry</i> , 2017 , 17, 650-656	3.2	21
190	Glomalin an interesting protein part of the soil organic matter. <i>Soil and Water Research</i> , 2020 , 15, 67-74	2.5	20

189	Prophylaxis and post-exposure treatment of intoxications caused by nerve agents and organophosphorus pesticides. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 2102-15	3.2	20
188	Three-Dimensional Printing in Analytical Chemistry: Principles and Applications. <i>Analytical Letters</i> , 2016 , 49, 2865-2882	2.2	20
187	Small camera as a handheld colorimetric tool in the analytical chemistry. <i>Chemical Papers</i> , 2017 , 71, 1553-1561	1.561	19
186	Therapeutical strategies for anxiety and anxiety-like disorders using plant-derived natural compounds and plant extracts. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 95, 437-446	7.5	19
185	Nerve Agents Assay Using Cholinesterase Based Biosensor. <i>Electroanalysis</i> , 2009 , 21, 1177-1182	3	19
184	Amperometric Biosensor for Evaluation of Competitive Cholinesterase Inhibition by the Reactivator HI-6. <i>Analytical Letters</i> , 2007 , 40, 2351-2359	2.2	19
183	Inhibition of Acetylcholinesterase and Butyrylcholinesterase by a Plant Secondary Metabolite Boldine. <i>BioMed Research International</i> , 2018 , 2018, 9634349	3	18
182	Voltammetric assay of butyrylcholinesterase in plasma samples and its comparison to the standard spectrophotometric test. <i>Talanta</i> , 2014 , 119, 412-6	6.2	18
181	Serological Diagnosis of Tularemia in Mice Using the Amperometric Immunosensor. <i>Electroanalysis</i> , 2007 , 19, 2507-2512	3	18
180	Macrophage-assisted inflammation and pharmacological regulation of the cholinergic anti-inflammatory pathway. <i>Current Medicinal Chemistry</i> , 2011 , 18, 539-51	4.3	17
179	Tularemia induces different biochemical responses in BALB/c mice and common voles. <i>BMC Infectious Diseases</i> , 2009 , 9, 101	4	17
178	Rapid Characterization of Monoclonal Antibodies using the Piezoelectric Immunosensor. <i>Sensors</i> , 2007 , 7, 341-353	3.8	17
177	Chemical warfare agents. <i>Exs</i> , 2010 , 100, 543-58		17
176	Spectrophotometric Assay of Aflatoxin B1 Using Acetylcholinesterase Immobilized on Standard Microplates. <i>Analytical Letters</i> , 2013 , 46, 1306-1315	2.2	16
175	Effect of five acetylcholinesterase reactivators on tabun-intoxicated rats: induction of oxidative stress versus reactivation efficacy. <i>Journal of Applied Toxicology</i> , 2009 , 29, 483-8	4.1	16
174	Preparation, in vitro screening and molecular modelling of symmetrical 4-tert-butylpyridinium cholinesterase inhibitors--analogues of SAD-128. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 150-4	2.9	16
173	Combined exposure to cyanobacterial biomass, lead and the Newcastle virus enhances avian toxicity. <i>Science of the Total Environment</i> , 2010 , 408, 4984-92	10.2	16
172	Possibility of Acetylcholinesterase Overexpression in Alzheimer Disease Patients after Therapy with Acetylcholinesterase Inhibitors. <i>Acta Medica (Hradec Kralove)</i> , 2015 , 58, 37-42	0.8	16

171	Biosensors containing acetylcholinesterase and butyrylcholinesterase as recognition tools for detection of various compounds. <i>Chemical Papers</i> , 2015 , 69,	1.9	15
170	Novel bisquaternary oximes--reactivation of acetylcholinesterase and butyrylcholinesterase inhibited by paraoxon. <i>Molecules</i> , 2009 , 14, 4915-21	4.8	15
169	Effect of several new and currently available oxime cholinesterase reactivators on tabun-intoxicated rats. <i>International Journal of Molecular Sciences</i> , 2008 , 9, 2243-52	6.3	15
168	Piezoelectric Biosensor for a Simple Serological Diagnosis of Tularemia in Infected European Brown Hares (<i>Lepus europaeus</i>). <i>Sensors</i> , 2007 , 7, 2825-2834	3.8	15
167	Shift of oxidants and antioxidants levels in rats as a reaction to exposure to sulfur mustard. <i>Journal of Applied Toxicology</i> , 2009 , 29, 643-7	4.1	14
166	Colorimetric hand-held sensors and biosensors with a small digital camera as signal recorder, a review. <i>Reviews in Analytical Chemistry</i> , 2020 , 39, 20-30	2.3	14
165	Evaluation of antioxidant activity, polyphenolic compounds, amino acids and mineral elements of representative genotypes of <i>Lonicera edulis</i> . <i>Molecules</i> , 2014 , 19, 6504-23	4.8	13
164	Automated assay of the potency of natural antioxidants using pipetting robot and spectrophotometry. <i>Journal of Applied Biomedicine</i> , 2012 , 10, 155-167	0.6	13
163	Synthesis and In Vitro Evaluation of New Tacrine Derivates-Bis-Alkylene Linked 7-MEOTA. <i>Letters in Organic Chemistry</i> , 2010 , 7, 327-331	0.6	13
162	Cholinesterase based amperometric biosensors for assay of anticholinergic compounds. <i>Interdisciplinary Toxicology</i> , 2009 , 2, 52-4	2.3	13
161	Photometric microplate assay for estimation of the efficacy of paraoxon-inhibited acetylcholinesterase reactivation. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008 , 23, 781-4	5.6	13
160	Label-free piezoelectric immunosensor for rapid assay of <i>Escherichia coli</i> . <i>Journal of Immunoassay and Immunochemistry</i> , 2008 , 29, 70-9	1.8	13
159	The perspective of caffeine and caffeine derived compounds in therapy. <i>Bratislava Medical Journal</i> , 2015 , 116, 520-30	1.7	12
158	Aflatoxin Assay Using an Amperometric Sensor Strip and Acetylcholinesterase as Recognition Element. <i>Sensor Letters</i> , 2008 , 6, 450-453	0.9	12
157	Biosensors Based on Semiconductors, a Review. <i>International Journal of Electrochemical Science</i> , 2017 , 6611-6621	2.2	11
156	TRPV currents and their role in the nociception and neuroplasticity. <i>Neuropeptides</i> , 2016 , 57, 1-8	3.3	11
155	Anti-Parkinson Drug Biperiden Inhibits Enzyme Acetylcholinesterase. <i>BioMed Research International</i> , 2017 , 2017, 2532764	3	11
154	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	11

153	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	11
152	Testicular toxicity of cyanobacterial biomass in Japanese quails. <i>Harmful Algae</i> , 2011 , 10, 612-618	5.3	11
151	Biochemical responses and oxidative stress in Francisella tularensis infection: a European brown hare model. <i>Acta Veterinaria Scandinavica</i> , 2011 , 53, 2	2	11
150	Reactivation of human acetylcholinesterase and butyrylcholinesterase inhibited by leptophos-oxon with different oxime reactivators in vitro. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 2856-63	6.3	11
149	Effect of seven newly synthesized and currently available oxime cholinesterase reactivators on cyclosarin-intoxicated rats. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 3065-75	6.3	11
148	Investigation of oxidative stress in blood, brain, kidney, and liver after oxime antidote HI-6 application in a mouse experimental model. <i>Drug and Chemical Toxicology</i> , 2011 , 34, 255-60	2.3	11
147	Sensors Based on Molecularly Imprinted Polymers. <i>International Journal of Electrochemical Science</i> , 2010 , 5, 8082-8094	8.0	11
146	Chemical warfare agents. <i>Exs</i> , 2010 , 543-558		11
145	Electrochemical Biosensors based on Acetylcholinesterase and Butyrylcholinesterase. A Review. <i>International Journal of Electrochemical Science</i> , 2016 , 11, 7440-7452	2.2	11
144	Susceptibility of selected murine and microtine species to infection by a wild strain of Francisella tularensis subsp. holarctica. <i>Veterinarni Medicina</i> , 2009 , 54, 64-74	0.7	10
143	Vaccination to Alzheimer Disease. Is it a Promising Tool or a Blind Way?. <i>Current Medicinal Chemistry</i> , 2016 , 23, 1432-41	4.3	10
142	Evaluation of Immunoglobulin Production during Tularaemia Infection in BALB/c Mouse Model. <i>Acta Veterinaria Brno</i> , 2007 , 76, 579-584	0.8	10
141	QCM immunosensor for the determination of Staphylococcus aureus antigen. <i>Chemical Papers</i> , 2020 , 74, 451-458	1.9	10
140	Digital camera-based lipase biosensor for the determination of paraoxon. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 610-615	8.5	10
139	Changes in the oxidative stress/anti-oxidant system after exposure to sulfur mustard and antioxidant strategies in the therapy, a review. <i>Toxicology Mechanisms and Methods</i> , 2017 , 27, 408-416	3.6	9
138	Attenuation of radiation-induced gastrointestinal damage by epidermal growth factor and bone marrow transplantation in mice. <i>International Journal of Radiation Biology</i> , 2015 , 91, 703-14	2.9	9
137	Immunoassay of interferon gamma by quartz crystal microbalance biosensor. <i>Talanta</i> , 2020 , 218, 121167	6.2	9
136	Low molecular weight precursor applicable for Alzheimer disease drugs synthesis (AChE and BChE inhibition, BACE inhibition, antioxidant properties and in silico modulation). <i>Journal of Applied Biomedicine</i> , 2014 , 12, 285-290	0.6	9

135	Preparation and performance of a colorimetric biosensor using acetylcholinesterase and indoxylacetate for assay of nerve agents and drugs. <i>Interdisciplinary Toxicology</i> , 2014 , 7, 215-8	2.3	9
134	Construction of an Acetylcholinesterase Sensor Based on Synthesized Paramagnetic Nanoparticles, a Simple Tool for Neurotoxic Compounds Assay. <i>Sensors</i> , 2017 , 17,	3.8	9
133	Acute poisoning with sarin causes alteration in oxidative homeostasis and biochemical markers in Wistar rats. <i>Journal of Applied Biomedicine</i> , 2012 , 10, 187-193	0.6	9
132	Metrifonate alters antioxidant levels and caspase activity in cerebral cortex of Wistar rats. <i>Toxicology Mechanisms and Methods</i> , 2011 , 21, 585-90	3.6	9
131	The preparation, in vitro screening and molecular docking of symmetrical bisquaternary cholinesterase inhibitors containing a but-(2E)-en-1,4-diyl connecting linkage. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2011 , 26, 245-53	5.6	9
130	Detection of Aflatoxins in Capsicum Spice Using an Electrochemical Immunosensor. <i>Analytical Letters</i> , 2008 , 41, 2344-2353	2.2	9
129	Current and emerging assays for Francisella tularensis detection: a review. <i>Veterinarni Medicina</i> , 2008 , 53, 585-594	0.7	9
128	The effects of caffeine on the cholinergic system. <i>Mini-Reviews in Medicinal Chemistry</i> , 2014 , 14, 543-9	3.2	9
127	Electrochemical Methods for Study of Influence of Selenium Nanoparticles on Antioxidant Status of Rats. <i>International Journal of Electrochemical Science</i> , 2016 , 2799-2824	2.2	9
126	Evaluation of the benefit of the bispyridinium compound MB327 for the antidotal treatment of nerve agent-poisoned mice. <i>Toxicology Mechanisms and Methods</i> , 2016 , 26, 334-9	3.6	9
125	Piezoelectric Immunosensor for the Determination of C- Reactive Protein. <i>International Journal of Electrochemical Science</i> , 2019 , 8470-8478	2.2	8
124	Evaluation of 2,6-dichlorophenolindophenol acetate as a substrate for acetylcholinesterase activity assay. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 796-9	5.6	8
123	Oxidative stress and liver damage in birds exposed to diclofenac and lead. <i>Acta Veterinaria Brno</i> , 2014 , 83, 299-304	0.8	8
122	Investigating the influence of taurine on thiol antioxidant status in Wistar rats with a multi-analytical approach. <i>Journal of Applied Biomedicine</i> , 2014 , 12, 97-110	0.6	8
121	Toxicological scoring of Alzheimer's disease drug huperzine in a guinea pig model. <i>Toxicology Mechanisms and Methods</i> , 2012 , 22, 231-5	3.6	8
120	Tularemia progression accompanied with oxidative stress and antioxidant alteration in spleen and liver of BALB/c mice. <i>Journal of Microbiology</i> , 2012 , 50, 401-8	3	8
119	In Vitro Screening of Blood-Brain Barrier Penetration of Monoquaternary Acetylcholinesterase Reactivators. <i>Analytical Letters</i> , 2010 , 43, 1516-1524	2.2	8
118	Evaluation of cholinesterase activities during in vivo intoxication using an electrochemical sensor strip - correlation with intoxication symptoms. <i>Sensors</i> , 2009 , 9, 3627-34	3.8	8

117	Sarin Assay using Acetylcholinesterases and Electrochemical Sensor Strip. <i>Defence Science Journal</i> , 2009 , 59, 300-304	1.4	8
116	Point-of-Care Diagnoses and Assays Based on Lateral Flow Test. <i>International Journal of Analytical Chemistry</i> , 2021 , 2021, 1-9	1.4	8
115	New performance of biosensor technology for Alzheimer's disease drugs: in vitro comparison of tacrine and 7-methoxytacrine. <i>Neuroendocrinology Letters</i> , 2008 , 29, 755-8	0.3	8
114	Pralidoxime--the gold standard of acetylcholinesterase reactivators--reactivation in vitro efficacy. <i>Bratislava Medical Journal</i> , 2010 , 111, 502-4	1.7	8
113	Assay of Glomalin Using a Quartz Crystal Microbalance Biosensor. <i>Electroanalysis</i> , 2018 , 30, 453-458	3	7
112	Acetylcholinesterase Inhibitors Assay Using Colorimetric pH Sensitive Strips and Image Analysis by a Smartphone. <i>International Journal of Analytical Chemistry</i> , 2017 , 2017, 3712384	1.4	7
111	Acetylcholinesterase based assay of eleven organophosphorus pesticides: finding of assay limitations. <i>International Journal of Environmental Analytical Chemistry</i> , 2012 , 92, 125-132	1.8	7
110	Sulfur mustard induced oxidative stress and its alteration using asoxime (HI-6). <i>Interdisciplinary Toxicology</i> , 2013 , 6, 198-202	2.3	7
109	Asoxime (HI-6) impact on dogs after one and tenfold therapeutic doses: assessment of adverse effects, distribution, and oxidative stress. <i>Environmental Toxicology and Pharmacology</i> , 2011 , 32, 75-81	5.8	7
108	Reactivation of VX-inhibited AChE by novel oximes having two oxygen atoms in the linker. <i>Environmental Toxicology and Pharmacology</i> , 2010 , 30, 85-7	5.8	7
107	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, 93-7	5.6	7
106	Reactivation of human brain homogenate cholinesterases inhibited by Tabun using newly developed oximes K117 and K127. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2009 , 105, 207-10	3.1	7
105	In vitro identification of novel acetylcholinesterase reactivators. <i>Toxin Reviews</i> , 2009 , 28, 238-244	2.3	7
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