Eugenio Vilanova

List of Publications by Year
in descending order

131 papers	2,947 citations	257450 24 h-index	197818 49 g-index
146 all docs	146 docs citations	146 times ranked	2428 citing authors

#	Article	IF	Citations
1	Case study: risk associated to wearing silver or graphene nanoparticle-coated facemasks for protection against COVID-19. Archives of Toxicology, 2022, 96, 105-119.	4.2	9
2	Interactions of human acetylcholinesterase with phenyl valerate and acetylthiocholine: Thiocholine as an enhancer of phenyl valerate esterase activity. Chemico-Biological Interactions, 2022, 351, 109764.	4.0	2
3	Alternative methods to animal experimentation for testing developmental toxicity. , 2022, , 107-125.		0
4	A Transcriptomic Analysis of T98G Human Glioblastoma Cells after Exposure to Cadmium-Selenium Quantum Dots Mainly Reveals Alterations in Neuroinflammation Processes and Hypothalamus Regulation. International Journal of Molecular Sciences, 2022, 23, 2267.	4.1	7
5	Titanium Dioxide, but Not Zinc Oxide, Nanoparticles Cause Severe Transcriptomic Alterations in T98G Human Glioblastoma Cells. International Journal of Molecular Sciences, 2021, 22, 2084.	4.1	11
6	DAEH N-terminal sequence of avian serum albumins as catalytic center of Cu (II)-dependent organophosphorus hydrolyzing A-esterase activity. Chemico-Biological Interactions, 2021, 345, 109524.	4.0	2
7	Effects of silver nanoparticles on T98G human glioblastoma cells. Toxicology and Applied Pharmacology, 2020, 404, 115178.	2.8	14
8	Toxicokinetics and toxicodynamics of DFP. , 2020, , 921-944.		0
9	O-hexyl O-2,5-dichlorophenyl phosphoramidate as a substrate for domestic and sea bird serum A-esterases: Hydrolysis levels, Cu2+- and Zn2+-dependence and stereoselectivity. Chemico-Biological Interactions, 2019, 310, 108727.	4.0	2
10	Case study: Is bisphenol S safer than bisphenol A in thermal papers?. Archives of Toxicology, 2019, 93, 1835-1852.	4.2	18
11	Interactions of human butyrylcholinesterase with phenylvalerate and acetylthiocholine as substrates and inhibitors: kinetic and molecular modeling approaches. Archives of Toxicology, 2019, 93, 1281-1296.	4.2	8
12	Biomarkers for Testing Toxicity and Monitoring Exposure to Xenobiotics. , 2019, , 1165-1174.		1
13	Copper-dependent hydrolysis of trichloronate by turkey serum studied with use of new analytical procedure based on application of chiral chromatography and UV/Vis spectrophotometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1105, 203-209.	2.3	6
14	Analysis of the neurotoxic effects of neuropathic organophosphorus compounds in adult zebrafish. Scientific Reports, 2018, 8, 4844.	3.3	11
15	Cholinesterase and phenyl valerate-esterase activities sensitive to organophosphorus compounds in membranes of chicken brain. Toxicology, 2018, 410, 73-82.	4.2	2
16	Albumin, the responsible protein of the Cu2+-dependent hydrolysis of O-hexyl O-2,5-dichlorophenyl phosphoramidate (HDCP) by chicken serum "antagonistic stereoselectivity". Food and Chemical Toxicology, 2018, 120, 523-527.	3.6	9
17	Hydrolyzing activities of phenyl valerate sensitive to organophosphorus compounds paraoxon and mipafox in human neuroblastoma SH-SY5Y cells. Toxicology, 2018, 406-407, 123-128.	4.2	2
18	Butyrylcholinesterase identification in a phenylvalerate esterase-enriched fraction sensitive to low mipafox concentrations in chicken brain. Archives of Toxicology, 2017, 91, 909-919.	4.2	7

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19	New insights on molecular interactions of organophosphorus pesticides with esterases. Toxicology, 2017, 376, 30-43.	4.2	63
20	Copper activation of organophosporus compounds detoxication by chicken serum. Food and Chemical Toxicology, 2017, 106, 417-423.	3.6	9
21	Phenyl valerate esterase activity of human butyrylcholinesterase. Archives of Toxicology, 2017, 91, 3295-3305.	4.2	7
22	OECD Guidelines for InÂVivo Testing of Reproductive Toxicity. , 2017, , 163-178.		2
23	Validated and Nonvalidated Mechanism-Based Methods for Testing Developmental Toxicity. , 2017, , 193-209.		1
24	Neurotoxic Effects Associated with Current Uses of Organophosphorus Compounds. Journal of the Brazilian Chemical Society, 2016, , .	0.6	10
25	Editorial. Chemico-Biological Interactions, 2016, 259, 49-50.	4.0	0
26	Effects of mipafox, paraoxon, chlorpyrifos and its metabolite chlorpyrifos-oxon on the expression of biomarker genes of differentiation in D3 mouse embryonic stem cells. Chemico-Biological Interactions, 2016, 259, 368-373.	4.0	11
27	Esterases hydrolyze phenyl valerate activity as targets of organophosphorus compounds. Chemico-Biological Interactions, 2016, 259, 358-367.	4.0	6
28	Air Quality of Textile and Related Industries. Comprehensive Analytical Chemistry, 2016, 73, 785-800.	1.3	1
29	Roles of NTE protein and encoding gene in development and neurodevelopmental toxicity. Chemico-Biological Interactions, 2016, 259, 352-357.	4.0	23
30	Acetylcholine-hydrolyzing activities in soluble brain fraction: Characterization with reversible and irreversible inhibitors. Chemico-Biological Interactions, 2016, 259, 374-381.	4.0	3
31	Aluminium, nickel, cadmium and lead in candy products and assessment of daily intake by children in Spain. Food Additives and Contaminants: Part B Surveillance, 2016, 9, 66-71.	2.8	7
32	Resolving pathways of interaction of mipafox and a sarin analog with human acetylcholinesterase by kinetics, mass spectrometry and molecular modeling approaches. Archives of Toxicology, 2016, 90, 603-616.	4.2	6
33	Toxicokinetics and Toxicodynamics of DFP. , 2015, , 857-874.		1
34	Expression of biomarker genes of differentiation in D3 mouse embryonic stem cells after exposure to different embryotoxicant and non-embryotoxicant model chemicals. Data in Brief, 2015, 5, 354-365.	1.0	1
35	Stereospecific hydrolysis of a phosphoramidate used as an OPIDP model by human sera with PON1 192 alloforms. Archives of Toxicology, 2015, 89, 1801-1809.	4.2	12
36	RNA transcripts for the quantification of differentiation allow marked improvements in the performance of embryonic stem cell test (EST). Toxicology Letters, 2015, 238, 60-69.	0.8	14

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37	Biomarkers in biomonitoring of xenobiotics. , 2014, , 965-973.		6
38	Genomic and Phenotypic Alterations of the Neuronal-Like Cells Derived from Human Embryonal Carcinoma Stem Cells (NT2) Caused by Exposure to Organophosphorus Compounds Paraoxon and Mipafox. International Journal of Molecular Sciences, 2014, 15, 905-926.	4.1	22
39	Cholinesterase assay by an efficient fixed time endpoint method. MethodsX, 2014, 1, 258-263.	1.6	21
40	Silencing of PNPLA6, the neuropathy target esterase (NTE) codifying gene, alters neurodifferentiation of human embryonal carcinoma stem cells (NT2). Neuroscience, 2014, 281, 54-67.	2.3	18
41	An integrated approach for detecting embryotoxicity and developmental toxicity of environmental contaminants using in vitro alternative methods. Toxicology Letters, 2014, 230, 356-367.	0.8	41
42	Kinetic interactions of a neuropathy potentiator (phenylmethylsulfonyl fluoride) with the neuropathy target esterase and other membrane bound esterases. Archives of Toxicology, 2014, 88, 355-366.	4.2	7
43	Functional pathways altered after silencing Pnpla6 (the codifying gene of neuropathy target esterase) in mouse embryonic stem cells under differentiation. In Vitro Cellular and Developmental Biology - Animal, 2014, 50, 261-273.	1.5	15
44	Cytotoxic effect against 3T3 fibroblasts cells of saffron floral bio-residues extracts. Food Chemistry, 2014, 147, 55-59.	8.2	22
45	Human and mouse gene expression pathways of neural embryonic cell differentiation in developmental toxicity. Toxicology Letters, 2014, 229, S15.	0.8	0
46	Organophosphorus Pesticide Chlorpyrifos and Its Metabolites Alter the Expression of Biomarker Genes of Differentiation in D3 Mouse Embryonic Stem Cells in a Comparable Way to Other Model Neurodevelopmental Toxicants. Chemical Research in Toxicology, 2014, 27, 1487-1495.	3.3	21
47	Interaction between substrates suggests a relationship between organophosphorus-sensitive phenylvalerate- and acetylcholine-hydrolyzing activities in chicken brain. Toxicology Letters, 2014, 230, 132-138.	0.8	13
48	Separating esterase targets of organophosphorus compounds in the brain by preparative chromatography. Toxicology Letters, 2014, 225, 167-176.	0.8	11
49	Chlorpyrifos and its metabolites alter gene expression at non-cytotoxic concentrations in D3 mouse embryonic stem cells under in vitro differentiation: Considerations for embryotoxic risk assessment. Toxicology Letters, 2013, 217, 14-22.	0.8	33
50	Interactions of neuropathy inducers and potentiators/promoters with soluble esterases. Chemico-Biological Interactions, 2013, 203, 245-250.	4.0	10
51	Characterization and Evolution of Exposure to Volatile Organic Compounds in the Spanish Shoemaking Industry over a 5-Year Period. Journal of Occupational and Environmental Hygiene, 2012, 9, 653-662.	1.0	7
52	Phenylmethylsulfonyl Fluoride, a Potentiator of Neuropathy, Alters the Interaction of Organophosphorus Compounds with Soluble Brain Esterases. Chemical Research in Toxicology, 2012, 25, 2393-2401.	3.3	13
53	Kinetic identification of organophosphate-sensitive esterases in brain membrane. Toxicology Letters, 2012, 211, S171.	0.8	0
54	Kinetics of inhibition of soluble peripheral nerve esterases by PMSF: a non-stable compound that potentiates the organophosphorus-induced delayed neurotoxicity. Archives of Toxicology, 2012, 86, 767-777.	4.2	19

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55	NTE and non-NTE esterases in brain membrane: Kinetic characterization with organophosphates. Toxicology, 2012, 297, 17-25.	4.2	18
56	Inhibition with Spontaneous Reactivation of Carboxyl Esterases by Organophosphorus Compounds: Paraoxon as a Model. Chemical Research in Toxicology, 2011, 24, 135-143.	3.3	23
57	Cell Viability Effects and Antioxidant and Antimicrobial Activities of Tunisian Date Syrup (Rub El) Tj ETQq1 1 0.784314 rgBT /Overlock	5.2	33
58	Mechanism-based models in reproductive and developmental toxicology. , 2011, , 135-146.		6
59	Shortening and Improving the Embryonic Stem Cell Test through the Use of Gene Biomarkers of Differentiation. Journal of Toxicology, 2011, 2011, 1-8.	3.0	16
60	OECD guidelines and validated methods for in vivo testing of reproductive toxicity. , 2011, , 123-133.		4
61	Kinetics of the inhibitory interaction of organophosphorus neuropathy inducers and non-inducers in soluble esterases in the avian nervous system. Toxicology and Applied Pharmacology, 2011, 256, 360-368.	2.8	18
62	Expression of Neuropathy Target Esterase in mouse embryonic stem cells during differentiation. Archives of Toxicology, 2010, 84, 481-491.	4.2	19
63	Serum albumins and detoxication of anti-cholinesterase agents. Chemico-Biological Interactions, 2010, 187, 325-329.	4.0	37
64	Inhibition with spontaneous reactivation and the â€œongoing inhibitionâ€•effect of esterases by biotinylated organophosphorus compounds: S9B as a model. Chemico-Biological Interactions, 2010, 187, 397-402.	4.0	23
65	An alternative in vitro method for detecting neuropathic compounds based on acetylcholinesterase inhibition and on inhibition and aging of neuropathy target esterase (NTE). Toxicology in Vitro, 2010, 24, 942-952.	2.4	25
66	Improved analytical method for monitoring exposure to volatile compounds for occupational risk prevention. Toxicology Letters, 2009, 189, S261-S262.	0.8	0
67	Model equations for the kinetics of covalent irreversible enzyme inhibition and spontaneous reactivation: Esterases and organophosphorus compounds. Critical Reviews in Toxicology, 2009, 39, 427-448.	3.9	45
68	Serum Albumin is as Efficient as Paraxonase in the Detoxication of Paraoxon at Toxicologically Relevant Concentrations. Chemical Research in Toxicology, 2008, 21, 1524-1529.	3.3	56
69	Plasma phenylacetate and 1-naphthyl acetate hydrolyzing activities of wild birds as possible non-invasive biomarkers of exposure to organophosphorus and carbamate insecticides. Toxicology Letters, 2007, 168, 278-285.	0.8	22
70	Over-expression of neuropathy target esterase activity in bovine chromaffin cell cultures by adenovirus-mediated gene transfer. Toxicology Letters, 2007, 168, 286-291.	0.8	7
71	Stereospecific hydrolysis of a phosphoramidate as a model to understand the role of biotransformation in the neurotoxicity of chiral organophosphorus compounds. Toxicology Letters, 2007, 170, 157-164.	0.8	13
72	A simple and rapid HPLCâ€“MS method for the simultaneous determination of epinephrine, norepinephrine, dopamine and 5-hydroxytryptamine: Application to the secretion of bovine chromaffin cell cultures. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 847, 88-94.	2.3	413

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73	Recovery of neuropathy target esterase activity after inhibition with mipafox and O-hexyl O-2,5-dichlorophenyl phosphoramidate in bovine chromaffin cell cultures. Chemico-Biological Interactions, 2007, 165, 99-105.	4.0	7
74	An in vitro approach for demonstrating the critical role of serum albumin in the detoxication of the carbamate carbaryl at in vivo toxicologically relevant concentrations. Archives of Toxicology, 2007, 81, 113-119.	4.2	24
75	Comparative hydrolysis of O-hexyl O-2,5-dichlorophenyl phosphoramidate and paraoxon in different tissues of vertebrates. Archives of Toxicology, 2007, 81, 689-695.	4.2	6
76	Comparison of chromaffin cells from several animal sources for their use as an in vitro model to study the mechanism of organophosphorous toxicity. Toxicology Letters, 2006, 165, 221-229.	0.8	8
77	Role of serum albumins in the detoxication of the carbamate carbaryl. Toxicology Letters, 2006, 164, S65.	0.8	0
78	Preliminar characterization of carboxylesterase activities found in plasma of wild birds. Toxicology Letters, 2006, 164, S157.	0.8	1
79	Plasmidic vector of human neuropathy target esterase in primary cultures of bovine chromaffin cells. Toxicology Letters, 2006, 164, S207-S208.	0.8	0
80	Hydrolysis of carbaryl by human serum albumin. Archives of Toxicology, 2004, 78, 629-634.	4.2	27
81	The inhibition of the high sensitive peripheral nerve soluble esterases by mipafoxA new mathematical processing for the kinetics of inhibition of esterases by organophosphorus compounds. Toxicology Letters, 2004, 151, 171-171.	0.8	0
82	Bovine chromaffin cell cultures as model to study organophosporus neurotoxicity. Toxicology Letters, 2004, 151, 163-170.	0.8	8
83	Future applications of phosphotriesterases in the prophylaxis and treatment of organophosporus insecticide and nerve agent poisonings. Toxicology Letters, 2004, 151, 219-233.	0.8	125
84	The inhibition of the high sensitive peripheral nerve soluble esterases by mipafox. Toxicology Letters, 2004, 151, 171-181.	0.8	24
85	Detection of clinical interactions between methadone and anti-retroviral compounds using an enantioselective capillary electrophoresis for methadone analysis. Toxicology Letters, 2004, 151, 243-249.	0.8	27
86	Properties of phenyl valerate esterase activities from chicken serum are comparable with soluble esterases of peripheral nerves in relation with organophosphorus compounds inhibition. Toxicology Letters, 2003, 142, 1-10.	0.8	14
87	Distribution of Serum Paraoxon Hydrolyzing Activity in a Large Spanish Population Using a Routine Automized Method in Clinical Laboratory. Journal of Analytical Toxicology, 2003, 27, 290-293.	2.8	2
88	Rabbit Serum Albumin Hydrolyzes the Carbamate Carbaryl. Chemical Research in Toxicology, 2002, 15, 520-526.	3.3	20
89	Enzymes involved in the detoxification of organophosphorus, carbamate and pyrethroid insecticides through hydrolysis. Toxicology Letters, 2002, 128, 215-228.	0.8	476
90	The Role of Phosphotriesterases in the Detoxication of Organophosphorus Compounds. Critical Reviews in Toxicology, 1999, 29, 21-57.	3.9	74

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91	Dichlorophenyl phosphoramidates as substrates for avian and mammalian liver phosphotriesterases: activity levels, calcium dependence and stereospecificity. Chemico-Biological Interactions, 1999, 119-120, 257-262.	4.0	75
92	NTE soluble isoforms: new perspectives for targets of neuropathy inducers and promoters. Chemico-Biological Interactions, 1999, 119-120, 525-540.	4.0	14
93	Peripheral nerve soluble esterases are spontaneously reactivated after inhibition by paraoxon: implications for a new definition of neuropathy target esterase. Chemico-Biological Interactions, 1999, 119-120, 541-550.	4.0	26
94	Enzyme Concentration as an Important Factor in the In Vitro Testing of the Stereospecificity of the Enzymatic Hydrolysis of Organophosphorus Compounds. Toxicology in Vitro, 1999, 13, 689-692.	2.4	44
95	A stereospecific phosphotriesterase in hen liver and brain. Chemico-Biological Interactions, 1998, 108, 187-196.	4.0	18
96	Phosphotriesterase activity identified in purified serum albumins. Archives of Toxicology, 1998, 72, 219-226.	4.2	37
97	Chicken Serum Albumin Hydrolyzes Dichlorophenyl Phosphoramidates by a Mechanism Based on Transient Phosphorylation. Chemical Research in Toxicology, 1998, 11, 1441-1446.	3.3	26
98	Inhibition and aging of neuropathy target esterase by the stereoisomers of a phosphoramidate related to methamidophos. Toxicology Letters, 1997, 93, 95-102.	0.8	17
99	Discrimination of carboxylesterases of chicken neural tissue by inhibition with a neuropathic, non-neuropathic organophosphorus compounds and neuropathy promoter. Chemico-Biological Interactions, 1997, 106, 191-200.	4.0	21
100	Reversible inhibition can profoundly mislead studies on progressive inhibition of enzymes: the interaction of paraoxon with soluble neuropathy target esterase. Chemico-Biological Interactions, 1997, 108, 19-25.	4.0	13
101	An automatable microassay for phenyl valerate esterase activities sensitive to organophosphorus compounds. Toxicology Letters, 1996, 89, 241-247.	0.8	7
102	Inhibition and aging of neuropathy target esterase by organophosphorus compound in bovine chromaffin cells. Toxicology Letters, 1996, 88, 24.	0.8	0
103	Hen serum albumin hydrolyses an organophosphorus compound. Toxicology Letters, 1996, 88, 88.	0.8	0
104	Methadone treatment in the province of Alicante from July 1990 to December 1995. Toxicology Letters, 1996, 88, 103.	0.8	0
105	Bovine chromaffin cells in culture show carboxylesterase activities sensitive to organophosphorus compounds. International Journal of Biochemistry and Cell Biology, 1996, 28, 983-989.	2.8	6
106	The role of nicotinic receptors and calcium channels in mipafox induced inhibition of catecholamine release in bovine chromaffin cells. Environmental Toxicology and Pharmacology, 1996, 1, 241-247.	4.0	4
107	Organophosphorus inhibition and heat inactivation kinetics of particulate and soluble forms of peripheral nerve neuropathy target esterase. Journal of Biochemical Toxicology, 1995, 10, 211-218.	0.4	5
108	Separation of two forms of neuropathy target esterase in the soluble fraction of the hen sciatic nerve. Chemico-Biological Interactions, 1995, 97, 247-255.	4.0	9

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109	Partial characterization of neuropathy target esterase and related phenyl valerate esterases from bovine adrenal medulla. Journal of Biochemical Toxicology, 1994, 9, 145-152.	0.4	20
110	Non-calcium dependent activity hydrolysing organophosphorus compounds in hen plasma. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1994, 107, 213-219.	0.5	1
111	In vivo inhibition by mipafox of soluble and particulate forms of organophosphorus neuropathy target esterase (NTE) in hen sciatic nerve. Toxicology Letters, 1994, 71, 47-51.	0.8	12
112	Chiral high-performance liquid chromatography and gas chromatography of the stereoisomers of hexyl 2,5-dichlorophenyl phosphoramidate. Biomedical Applications, 1993, 622, 179-186.	1.7	14
113	Soluble and Particulate Organophosphorus Neuropathy Target Esterase in Brain and Sciatic Nerve of the Hen, Cat, Rat, and Chick. Journal of Neurochemistry, 1993, 61, 2164-2168.	3.9	16
114	The kinetics of O-hexyl O-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma. Chemico-Biological Interactions, 1993, 87, 117-125.	4.0	12
115	Biochemical properties and possible toxicological significance of various forms of NTE. Chemico-Biological Interactions, 1993, 87, 369-381.	4.0	15
116	Properties of partly preinhibited hen brain neuropathy target esterase. Chemico-Biological Interactions, 1993, 87, 417-423.	4.0	3
117	Effect of some metallic cations and organic compounds on theO-hexylO-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma. Archives of Toxicology, 1993, 67, 416-421.	4.2	9
118	Local application of neuropathic organophosphorus compounds to hen sciatic nerve: Inhibition of neuropathy target esterase and peripheral neurological impairments. Toxicology and Applied Pharmacology, 1992, 117, 218-225.	2.8	11
119	Anomalous biochemical responses in tests of the delayed neuropathic potential of methamidophos (O,S-dimethyl phosphorothioamidate), its resolved isomers and of some higher O-alkyl homologues. Archives of Toxicology, 1991, 65, 618-624.	4.2	51
120	Soluble and Participate Forms of the Organophosphorus Neuropathy Target Esterase in Hen Sciatic Nerve. Journal of Neurochemistry, 1990, 55, 1258-1265.	3.9	40
121	Distribution and some biochemical properties of rat paraoxonase activity. Neurotoxicology and Teratology, 1990, 12, 611-614.	2.4	24
122	Hen liver and plasma can metabolize hexyl-DCP phosphoramidate at a rate comparable to that of rat. Neurotoxicology and Teratology, 1990, 12, 615-617.	2.4	15
123	Biochemical and clinical tests of the delayed neuropathic potential of some O-alkylO-dichlorophenyl phosphoramidate analogues of methamidophos (O,S-dimethyl phosphorothioamidate). Toxicology, 1989, 54, 89-100.	4.2	34
124	Sciatic nerve neuropathy target esterase. Methods of assay, proximo-distal distribution and regeneration. Toxicology, 1988, 49, 107-114.	4.2	19
125	Interaction of some unsubstituted phosphoramidate analogs of methamidophos (O,S-dimethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Pesticide Biochemistry and Physiology, 1987, 28, 224-238.	3.6	48
126	Sensitivity to tri-o-cresylphosphate neurotoxicity on n-hexane exposed hens as a model of simultaneous hexacarbon solvent and organophosphorus occupational intoxication. Archives of Toxicology, 1987, 59, 311-318.	4.2	5

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127	Phthalates and organophosphorus compounds as cholinesterase inhibitors in fractions of industrial hexane impurities. Archives of Toxicology, 1985, 57, 46-52.	4.2	7
128	Tyrosine hydroxylase activity of immobilized tyrosinase on enzacryl-AA and CPG-AA supports: Stabilization and properties. Biotechnology and Bioengineering, 1984, 26, 1306-1312.	3.3	58
129	Serum cholinesterase inhibitors in the commercial hexane impurities. Archives of Toxicology, 1983, 53, 59-69.	4.2	7
130	Immobilized frog tyrosinase. Stabilization on nylon supports. Biotechnology Letters, 1982, 4, 341-346.	2.2	6
131	A tyrosinase electrode: A laboratory experiment. Biochemical Education, 1981, 9, 51-54.	0.1	5