John E Casida

List of Publications by Citations

259 papers	14,876 citations	64 h-index	110 g-index
260 ext. papers	16,162 ext. citations	5.7 avg, IF	6.95 L-index

#	Paper	IF	Citations
259	Neonicotinoid insecticide toxicology: mechanisms of selective action. *Annual Review of Pharmacology and Toxicology*, **2005**, 45, 247-68	17.9	1070
258	Selective toxicity of neonicotinoids attributable to specificity of insect and mammalian nicotinic receptors. *Annual Review of Entomology*, **2003**, 48, 339-64	21.8	651
257	Neuroactive insecticides: targets, selectivity, resistance, and secondary effects. *Annual Review of Entomology*, **2013**, 58, 99-117	21.8	472
256	Golden age of insecticide research: past, present, or future?. *Annual Review of Entomology*, **1998**, 43, 1-16	21.8	464
255	Organophosphate toxicology: safety aspects of nonacetylcholinesterase secondary targets. *Chemical Research in Toxicology*, **2004**, 17, 983-98	4	416
254	Mixed-function oxidase involvement in the biochemistry of insecticide synergists. *Journal of Agricultural and Food Chemistry*, **1970**, 18, 753-72	5.7	294
253	The calcium-ryanodine receptor complex of skeletal and cardiac muscle. *Biochemical and Biophysical Research Communications*, **1985**, 128, 449-56	3.4	271
252	Mechanisms for selective toxicity of fipronil insecticide and its sulfone metabolite and desulfinyl photoproduct. *Chemical Research in Toxicology*, **1998**, 11, 1529-35	4	265
251	Pest toxicology: the primary mechanisms of pesticide action. *Chemical Research in Toxicology*, **2009**, 22, 609-19	4	217
250	Neonicotinoid metabolism: compounds, substituents, pathways, enzymes, organisms, and relevance. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 2923-31	5.7	201
249	Interaction of 1-methyl-4-phenylpyridinium ion (MPP+) and its analogs with the rotenone/piericidin binding site of NADH dehydrogenase. *Journal of Neurochemistry*, **1991**, 56, 1184-90	6	197
248	Neonicotinoid insecticides: molecular features conferring selectivity for insect versus mammalian nicotinic receptors. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 6016-24	5.7	174
247	Interactions of lindane, toxaphene and cyclodienes with brain-specific t-butylbicyclophosphorothionate receptor. *Life Sciences*, **1984**, 35, 171-8	6.8	167
246	Rotenone, deguelin, their metabolites, and the rat model of Parkinson's disease. *Chemical Research in Toxicology*, **2004**, 17, 1540-8	4	152
245	Loss of neuropathy target esterase in mice links organophosphate exposure to hyperactivity. *Nature Genetics*, **2003**, 33, 477-85	36.3	142
244	Dichloroacetamide antidotes enhance thiocarbamate sulfoxide detoxification by elevating corn root glutathione content and glutathione S-transferase activity. *Pesticide Biochemistry and Physiology*, **1976**, 6, 442-456	4.9	140
243	Serine hydrolase targets of organophosphorus toxicants. *Chemico-Biological Interactions*, **2005**, 157-158, 277-83	5	139

242	Aldehyde dehydrogenase inhibition as a pathogenic mechanism in Parkinson disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 636-41	11.5	138
241	Atomic interactions of neonicotinoid agonists with AChBP: molecular recognition of the distinctive electronegative pharmacophore. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7606-11	11.5	134
240	Molecular recognition of neonicotinoid insecticides: the determinants of life or death. *Accounts of Chemical Research*, **2009**, 42, 260-9	24.3	132
239	Structural model for gamma-aminobutyric acid receptor noncompetitive antagonist binding: widely diverse structures fit the same site. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5185-90	11.5	127
238	Biological activity of a trio-cresyl phosphate metabolite. *Nature*, **1961**, 191, 1396-7	50.4	127
237	Interaction of Imidacloprid Metabolites and Analogs with the Nicotinic Acetylcholine Receptor of Mouse Brain in Relation to Toxicity. *Pesticide Biochemistry and Physiology*, **1997**, 58, 77-88	4.9	123
236	Neonicotinoid insecticides induce salicylate-associated plant defense responses. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 17527-32	11.5	121
235	Chloropyridinyl neonicotinoid insecticides: diverse molecular substituents contribute to facile metabolism in mice. *Chemical Research in Toxicology*, **2006**, 19, 944-51	4	121
234	Imidacloprid insecticide metabolism: human cytochrome P450 isozymes differ in selectivity for imidazolidine oxidation versus nitroimine reduction. *Toxicology Letters*, **2002**, 132, 65-70	4.4	116
233	Unique and common metabolites of thiamethoxam, clothianidin, and dinotefuran in mice. *Chemical Research in Toxicology*, **2006**, 19, 1549-56	4	115
232	Novel nicotinic action of the sulfoximine insecticide sulfoxaflor. *Insect Biochemistry and Molecular Biology*, **2011**, 41, 432-9	4.5	113
231	Comparative metabolism and pharmacokinetics of seven neonicotinoid insecticides in spinach. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 10168-75	5.7	112
230	Insecticide action at the GABA-gated chloride channel: recognition, progress, and prospects. *Archives of Insect Biochemistry and Physiology*, **1993**, 22, 13-23	2.3	112
229	Insect nicotinic acetylcholine receptor: conserved neonicotinoid specificity of [(3)H]imidacloprid binding site. *Journal of Neurochemistry*, **2000**, 75, 1294-303	6	111
228	The neonicotinoid electronegative pharmacophore plays the crucial role in the high affinity and selectivity for the Drosophila nicotinic receptor: an anomaly for the nicotinoid cation--pi interaction model. *Biochemistry*, **2003**, 42, 7819-27	3.2	110
227	Evidence that mouse brain neuropathy target esterase is a lysophospholipase. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 7983-7	11.5	108
226	Neonicotinoids and Other Insect Nicotinic Receptor Competitive Modulators: Progress and Prospects. *Annual Review of Entomology*, **2018**, 63, 125-144	21.8	107
225	Role of human GABA(A) receptor beta3 subunit in insecticide toxicity. *Toxicology and Applied Pharmacology*, **2001**, 172, 233-40	4.6	105

224	Activation of the endocannabinoid system by organophosphorus nerve agents. *Nature Chemical Biology*, **2008**, 4, 373-8	11.7	102
223	Structure and diversity of insect nicotinic acetylcholine receptors. *Pest Management Science*, **2001**, 57, 914-22	4.6	100
222	Minor structural changes in nicotinoid insecticides confer differential subtype selectivity for mammalian nicotinic acetylcholine receptors. *British Journal of Pharmacology*, **1999**, 127, 115-22	8.6	99
221	Potentiation and neurotoxicity induced by certain organophosphates. *Biochemical Pharmacology*, **1963**, 12, 73-83	6	98
220	t-[3H]butylbicycloorthobenzoate: new radioligand probe for the gamma-aminobutyric acid-regulated chloride ionophore. *Journal of Neurochemistry*, **1985**, 45, 798-804	6	96
219	Fatty acid amide hydrolase inhibition by neurotoxic organophosphorus pesticides. *Toxicology and Applied Pharmacology*, **2001**, 173, 48-55	4.6	90
218	Effects of pyrethroid structure on rates of hydrolysis and oxidation by mouse liver microsomal enzymes. *Pesticide Biochemistry and Physiology*, **1977**, 7, 391-401	4.9	88
217	Structure-toxicity relationships of 2,6,7-trioxabicyclo(2.2.2)octanes and related compounds. *Toxicology and Applied Pharmacology*, **1976**, 36, 261-79	4.6	86
216	Structural aspects of ryanodine action and selectivity. *Journal of Medicinal Chemistry*, **1987**, 30, 710-6	8.3	85
215	GABA-gated chloride channel: Binding site for 4?-ethynyl-4-n-[2,3-3H2]propylbicycloorthobenzoate ([3H]EBOB) in vertebrate brain and insect head. *Pesticide Biochemistry and Physiology*, **1992**, 44, 1-8	4.9	82
214	Golden age of RyR and GABA-R diamide and isoxazoline insecticides: common genesis, serendipity, surprises, selectivity, and safety. *Chemical Research in Toxicology*, **2015**, 28, 560-6	4	81
213	Metabolic chemistry of pyrethroid insecticides. *Pest Management Science*, **1980**, 11, 257-269		79
212	Insect pyrethroid-hydrolyzing esterases. *Pesticide Biochemistry and Physiology*, **1974**, 4, 465-472	4.9	77
211	Glutathione S-transferase conjugation of organophosphorus pesticides yields S-phospho-, S-aryl-, and S-alkylglutathione derivatives. *Chemical Research in Toxicology*, **2007**, 20, 1211-7	4	76
210	Pyrethroid Esterase(s) May Contribute to Natural Pyrethroid Tolerance of Larvae of the Common Green Lacewing 1. *Environmental Entomology*, **1981**, 10, 681-684	2.1	76
209	New bioactive flavonoids and stilbenes in cub resin insecticide. *Journal of Natural Products*, **1999**, 62, 205-10	4.9	74
208	Pesticide Chemical Research in Toxicology: Lessons from Nature. *Chemical Research in Toxicology*, **2017**, 30, 94-104	4	73
207	Imidacloprid, thiacloprid, and their imine derivatives up-regulate the alpha 4 beta 2 nicotinic acetylcholine receptor in M10 cells. *Toxicology and Applied Pharmacology*, **2000**, 169, 114-20	4.6	72

206	Activity-based protein profiling of organophosphorus and thiocarbamate pesticides reveals multiple serine hydrolase targets in mouse brain. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 2808-15	5.7	71
205	Anticholinesterase insecticide retrospective. *Chemico-Biological Interactions*, **2013**, 203, 221-5	5	70
204	Novel GABA receptor pesticide targets. *Pesticide Biochemistry and Physiology*, **2015**, 121, 22-30	4.9	69
203	New GABA/glutamate receptor target for [H]isoxazoline insecticide. *Chemical Research in Toxicology*, **2013**, 26, 514-6	4	69
202	Atypical nicotinic agonist bound conformations conferring subtype selectivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 1728-32	11.5	68
201	Monoacylglycerol lipase inhibition by organophosphorus compounds leads to elevation of brain 2-arachidonoylglycerol and the associated hypomotility in mice. *Toxicology and Applied Pharmacology*, **2006**, 211, 78-83	4.6	68
200	Identification of aldehyde oxidase as the neonicotinoid nitroreductase. *Chemical Research in Toxicology*, **2005**, 18, 317-23	4	68
199	Monoacylglycerol lipase regulates 2-arachidonoylglycerol action and arachidonic acid levels. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 5875-8	2.9	67
198	Detoxification of alpha- and beta-Thujones (the active ingredients of absinthe): site specificity and species differences in cytochrome P450 oxidation in vitro and in vivo. *Chemical Research in Toxicology*, **2001**, 14, 589-95	4	66
197	Response of hepatic microsomal mixed-function oxidases to various types of insecticide chemical synergists administered to mice. *Biochemical Pharmacology*, **1971**, 20, 1607-18	6	65
196	Insect ryanodine receptor: distinct but coupled insecticide binding sites for [N-C(3)H(3)]chlorantraniliprole, flubendiamide, and [(3)H]ryanodine. *Chemical Research in Toxicology*, **2012**, 25, 1571-3	4	64
195	Polychlorocycloalkane insecticide-induced convulsions in mice in relation to disruption of the GABA-regulated chloride ionophore. *Life Sciences*, **1986**, 39, 1855-62	6.8	63
194	Mapping the elusive neonicotinoid binding site. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 9075-80	11.5	62
193	House fly brain -aminobutyric acid-gated chloride channel: target for multiple classes of insecticides. *Pesticide Biochemistry and Physiology*, **1991**, 41, 60-65	4.9	62
192	Oxidative metabolism of pyrethroids in houseflies. *Journal of Agricultural and Food Chemistry*, **1969**, 17, 1227-1236	5.7	62
191	Metabolic fate of pyrethrin I, Pyrethrin II, and allethrin administered orally to rats. *Journal of Agricultural and Food Chemistry*, **1972**, 20, 300-13	5.7	62
190	Drosophila GABA-gated chloride channel: modified [3H]EBOB binding site associated with Ala-->Ser or Gly mutants of Rdl subunit. *Life Sciences*, **1995**, 56, 757-65	6.8	61
189	Analgesic and toxic effects of neonicotinoid insecticides in mice. *Toxicology and Applied Pharmacology*, **2001**, 177, 77-83	4.6	60

188	Detection and analysis of epoxides with 4-(p-Nitrobenzyl)-pyridine. *Bulletin of Environmental Contamination and Toxicology*, **1974**, 12, 759-64	2.7	59
187	Acephate insecticide toxicity: safety conferred by inhibition of the bioactivating carboxyamidase by the metabolite methamidophos. *Chemical Research in Toxicology*, **1997**, 10, 64-9	4	58
186	The insecticide target in the PSST subunit of complex I. *Pest Management Science*, **2001**, 57, 932-40	4.6	58
185	Structure--toxicity relationships of 1-substituted-4-alkyl-2,6,7-trioxabicyclo[2.2.2.]octanes. *Toxicology and Applied Pharmacology*, **1979**, 47, 287-93	4.6	58
184	Neonicotinoid insecticides: reduction and cleavage of imidacloprid nitroimine substituent by liver microsomal and cytosolic enzymes. *Chemical Research in Toxicology*, **2002**, 15, 1158-65	4	57
183	Whitefly (Hemiptera: Aleyrodidae) binding site for imidacloprid and related insecticides: a putative nicotinic acetylcholine receptor. *Journal of Economic Entomology*, **1997**, 90, 879-82	2.2	56
182	Structural features of azidopyridinyl neonicotinoid probes conferring high affinity and selectivity for mammalian alpha4beta2 and Drosophila nicotinic receptors. *Journal of Medicinal Chemistry*, **2002**, 45, 2832-40	8.3	56
181	Uncoupling action of 2,4-dinitrophenols, 2-trifluoromethylbenzimidazoles and certain other pesticide chemicals upon mitochondria from different sources and its relation to toxicity. *Biochemical Pharmacology*, **1969**, 18, 1389-401	6	55
180	Novel and potent 6-chloro-3-pyridinyl ligands for the alpha4beta2 neuronal nicotinic acetylcholine receptor. *Journal of Medicinal Chemistry*, **1999**, 42, 2227-34	8.3	53
179	Species differences in chlorantraniliprole and flubendiamide insecticide binding sites in the ryanodine receptor. *Pesticide Biochemistry and Physiology*, **2013**, 107, 321-6	4.9	52
178	Enzymes and inhibitors in neonicotinoid insecticide metabolism. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 4861-6	5.7	52
177	Rotenone photodecomposition. *Journal of Agricultural and Food Chemistry*, **1972**, 20, 850-856	5.7	52
176	Why Insecticides are More Toxic to Insects than People: The Unique Toxicology of Insects. *Journal of Pesticide Sciences*, **2004**, 29, 81-86	2.7	51
175	Blood acylpeptide hydrolase activity is a sensitive marker for exposure to some organophosphate toxicants. *Toxicological Sciences*, **2005**, 86, 291-9	4.4	50
174	Selective inhibitors of fatty acid amide hydrolase relative to neuropathy target esterase and acetylcholinesterase: toxicological implications. *Toxicology and Applied Pharmacology*, **2002**, 179, 57-63	4.6	49
173	Neo-nicotinoid metabolic activation and inactivation established with coupled nicotinic receptor-CYP3A4 and -aldehyde oxidase systems. *Toxicology Letters*, **2006**, 161, 108-14	4.4	48
172	A brain detoxifying enzyme for organophosphorus nerve poisons. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 6195-200	11.5	48
171	Acifluorfen increases the leaf content of phytoalexins and stress metabolites in several crops. *Journal of Agricultural and Food Chemistry*, **1983**, 31, 751-755	5.7	48

170	Structure-biodegradability relationships in pyrethroid insecticides. *Archives of Environmental Contamination and Toxicology*, **1975**, 3, 491-500	3.2	48
169	Toxaphene toxicant A. Mixture of 2,25-endo,6-exo,8,8,9,10-octachlorobornane and 2,2,5-endo,6-exo,8,9,9,10-octachlorobornane. *Journal of Agricultural and Food Chemistry*, **1975**, 23, 991-4	5.7	48
168	Aldehyde oxidase importance in vivo in xenobiotic metabolism: imidacloprid nitroreduction in mice. *Toxicological Sciences*, **2013**, 133, 22-8	4.4	47
167	Novel neonicotinoid-agarose affinity column for Drosophila and Musca nicotinic acetylcholine receptors. *Journal of Neurochemistry*, **1996**, 67, 1669-76	6	47
166	Fenazaquin Acaricide Specific Binding Sites in NADH: Ubiquinone Oxidoreductase and Apparently the ATP Synthase Stalk. *Pesticide Biochemistry and Physiology*, **1996**, 54, 135-145	4.9	47
165	Toxaphene components and related compounds: preparation and toxicity of some hepta-, octa-, and nonachlorobornanes, hexa- and heptachlorobornenes, and a hexachlorobornadiene. *Journal of Agricultural and Food Chemistry*, **1977**, 25, 1394-1401	5.7	47
164	Insecticides in Chinese medicinal plants: survey leading to jacaranone, a neurotoxicant and glutathione-reactive quinol. *Journal of Agricultural and Food Chemistry*, **2003**, 51, 2544-7	5.7	46
163	Relation of yolk sac membrane kynurenine formamidase inhibition to certain teratogenic effects of organophosphorus insecticides and of carbaryl and eserine in chicken embryos. *Biochemical Pharmacology*, **1978**, 27, 2611-5	6	46
162	Benomyl, aldehyde dehydrogenase, DOPAL, and the catecholaldehyde hypothesis for the pathogenesis of Parkinson's disease. *Chemical Research in Toxicology*, **2014**, 27, 1359-61	4	43
161	Insect □-aminobutyric acid receptors and isoxazoline insecticides: toxicological profiles relative to the binding sites of [□H]fluralaner, [□H]-4'-ethynyl-4-n-propylbicycloorthobenzoate, and [□H]avermectin. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 1019-24	5.7	43
160	Cycloxaprid insecticide: nicotinic acetylcholine receptor binding site and metabolism. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 7883-8	5.7	43
159	House fly head GABA-gated chloride channel: Toxicologically relevant binding site for avermectins coupled to site for ethynylbicycloorthobenzoate. *Pesticide Biochemistry and Physiology*, **1992**, 43, 116-122	4.9	43
158	COLOC-S: A modified COLOC sequence for selective long-range X-H correlation 2D NMR spectroscopy. *Magnetic Resonance in Chemistry*, **1987**, 25, 837-842	2.1	43
157	Radiosynthesis and metabolism in rats of the 1R isomers of the insecticide permethrin. *Journal of Agricultural and Food Chemistry*, **1976**, 24, 270-6	5.7	43
156	Photodecomposition of pyrethrin I, allethrin, phthalthrin, and dimethrin. Modifications in the acid moiety. *Journal of Agricultural and Food Chemistry*, **1969**, 17, 208-215	5.7	43
155	Diamide insecticide target site specificity in the Heliothis and Musca ryanodine receptors relative to toxicity. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 4077-82	5.7	42
154	S-methylation as a bioactivation mechanism for mono- and dithiocarbamate pesticides as aldehyde dehydrogenase inhibitors. *Chemical Research in Toxicology*, **1995**, 8, 1063-9	4	42
153	Chicken embryo NAD levels lowered by teratogenic organophosphorus and methylcarbamate insecticides. *Biochemical Pharmacology*, **1976**, 25, 757-62	6	42

152	GABAA receptor target of tetramethylenedisulfotetramine. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 8607-12	11.5	41
151	Neonicotinoid nitroguanidine insecticide metabolites: synthesis and nicotinic receptor potency of guanidines, aminoguanidines, and their derivatives. *Chemical Research in Toxicology*, **2005**, 18, 1479-84	4	41
150	Substrate specificity of rabbit aldehyde oxidase for nitroguanidine and nitromethylene neonicotinoid insecticides. *Chemical Research in Toxicology*, **2006**, 19, 38-43	4	39
149	Insect nicotinic acetylcholine receptors: neonicotinoid binding site specificity is usually but not always conserved with varied substituents and species. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 3365-71	5.7	39
148	Mechanism for benomyl action as a mitochondrial aldehyde dehydrogenase inhibitor in mice. *Chemical Research in Toxicology*, **1998**, 11, 535-43	4	39
147	Herbicide safener-binding protein of maize. Purification, cloning, and expression of an encoding cDNA. *Plant Physiology*, **1998**, 116, 1083-9	6.6	38
146	Pyrethroid metabolism: microsomal oxidase metabolites of (S)-bioallethrin and the six natural pyrethrins. *Journal of Agricultural and Food Chemistry*, **1990**, 38, 529-537	5.7	38
145	The greening of pesticide-environment interactions: some personal observations. *Environmental Health Perspectives*, **2012**, 120, 487-93	8.4	37
144	Defining nicotinic agonist binding surfaces through photoaffinity labeling. *Biochemistry*, **2007**, 46, 8798-806	3.2	37
143	Nereistoxin and cartap neurotoxicity attributable to direct block of the insect nicotinic receptor/channel. *Journal of Agricultural and Food Chemistry*, **2003**, 51, 2646-52	5.7	37
142	Pesticide Interactions: Mechanisms, Benefits, and Risks. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 4553-4561	5.7	36
141	Unique neonicotinoid binding conformations conferring selective receptor interactions. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 2825-8	5.7	36
140	Recognition of tetramethylenedisulfotetramine and related sulfamides by the brain GABA-gated chloride channel and a cyclodiene-sensitive monoclonal antibody. *Chemical Research in Toxicology*, **1991**, 4, 162-7	4	35
139	9, 21-Didehydroryanodine: a new principal toxic constituent of the botanical insecticide Ryania. *Journal of the Chemical Society Chemical Communications*, **1984**, 1265		35
138	Metabolism of the cis- and trans-isomers of cypermethrin in mice. *Pest Management Science*, **1981**, 12, 385-398		35
137	Photosensitizers for the accelerated degradation of chlorinated cyclodienes and other insecticide chemicals exposed to sunlight on bean leaves. *Journal of Agricultural and Food Chemistry*, **1971**, 19, 410-416	5.7	35
136	Desnitro-imidacloprid activates the extracellular signal-regulated kinase cascade via the nicotinic receptor and intracellular calcium mobilization in N1E-115 cells. *Toxicology and Applied Pharmacology*, **2002**, 184, 180-6	4.6	34
135	Regional modification of [(3)H]Ethynylbicycloorthobenzoate binding in mouse brain GABA(A) receptor by endosulfan, fipronil, and avermectin B(1a). *Toxicology and Applied Pharmacology*, **2000**, 163, 188-94	4.6	34

134	Pyrethroid toxicology in the frog. *Pesticide Biochemistry and Physiology*, **1983**, 20, 217-224	4.9	34
133	Solubilization and detergent effects on interactions of some drugs and insecticides with the t-butylbicyclophosphorothionate binding site within the gamma-aminobutyric acid receptor-ionophore complex. *Journal of Neurochemistry*, **1985**, 44, 110-6	6	34
132	Neonicotinoid formaldehyde generators: possible mechanism of mouse-specific hepatotoxicity/hepatocarcinogenicity of thiamethoxam. *Toxicology Letters*, **2013**, 216, 139-45	4.4	33
131	Neonicotinoid insecticides: oxidative stress in planta and metallo-oxidase inhibition. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 4860-7	5.7	33
130	Synthesis of a novel [125I]neonicotinoid photoaffinity probe for the Drosophila nicotinic acetylcholine receptor. *Bioconjugate Chemistry*, **1997**, 8, 7-14	6.3	33
129	Organophosphate-sensitive lipases modulate brain lysophospholipids, ether lipids and endocannabinoids. *Chemico-Biological Interactions*, **2008**, 175, 355-64	5	33
128	Cartap hydrolysis relative to its action at the insect nicotinic channel. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 95-8	5.7	32
127	Organophosphorus Xenobiotic Toxicology. *Annual Review of Pharmacology and Toxicology*, **2017**, 57, 309-327	17.9	31
126	Insect nicotinic receptor interactions in vivo with neonicotinoid, organophosphorus, and methylcarbamate insecticides and a synergist. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 17273-7	11.5	30
125	The ABCs of pesticide toxicology: amounts, biology, and chemistry. *Toxicology Research*, **2017**, 6, 755-763	2.6	30
124	Glufosinate binds N-methyl-D-aspartate receptors and increases neuronal network activity in vitro. *NeuroToxicology*, **2014**, 45, 38-47	4.4	29
123	5-Azidoimidacloprid and an acyclic analogue as candidate photoaffinity probes for mammalian and insect nicotinic acetylcholine receptors. *Journal of Medicinal Chemistry*, **2000**, 43, 5003-9	8.3	29
122	Dialkylquinonimines validated as in vivo metabolites of alachlor, acetochlor, and metolachlor herbicides in rats. *Chemical Research in Toxicology*, **1998**, 11, 353-9	4	29
121	Three-bond 13C?1H coupling constants for chrysanthemic acid and phenothrin metabolites: Detection by two-dimensional long-range 13C?1H J-resolution spectroscopy. *Magnetic Resonance in Chemistry*, **1993**, 31, 90-93	2.1	29
120	Serine hydrolase KIAA1363: toxicological and structural features with emphasis on organophosphate interactions. *Chemical Research in Toxicology*, **2006**, 19, 1142-50	4	28
119	Synthesis of a tritium-labeled, fipronil-based, highly potent, photoaffinity probe for the GABA receptor. *Journal of Organic Chemistry*, **2003**, 68, 8075-9	4.2	28
118	Profenofos insecticide bioactivation in relation to antidote action and the stereospecificity of acetylcholinesterase inhibition, reactivation, and aging. *Toxicology and Applied Pharmacology*, **1984**, 73, 16-22	4.6	28
117	Effects of insecticides and GABAergic agents on a house fly [35S]t-butylbicyclophosphorothionate binding site. *Pesticide Biochemistry and Physiology*, **1986**, 25, 63-72	4.9	28

116	Insecticide interactions with .GAMMA.-aminobutyric acid and nicotinic receptors: predictive aspects of structural models. *Journal of Pesticide Sciences*, **2008**, 33, 4-8	2.7	28
115	Curious about pesticide action. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 2762-9	5.7	27
114	[125I]Azidonicotinoid photoaffinity labeling of insecticide-binding subunit of Drosophila nicotinic acetylcholine receptor. *Neuroscience Letters*, **1997**, 237, 61-4	3.3	27
113	Lysophospholipase inhibition by organophosphorus toxicants. *Toxicology and Applied Pharmacology* , **2004**, 196, 319-26	4.6	27
112	NADH: ubiquinone oxidoreductase inhibitors block induction of ornithine decarboxylase activity in MCF-7 human breast cancer cells. *Basic and Clinical Pharmacology and Toxicology*, **1998**, 83, 214-9		26
111	Metabolism in rats and mice of the soil fumigants metham, methyl isothiocyanate, and dazomet. *Journal of Agricultural and Food Chemistry*, **1993**, 41, 1497-1502	5.7	26
110	2-Aryl-5-tert-butyl-1,3-dithianes and their S-oxidation products: structure-activity relationships of potent insecticides acting at the GABA-gated chloride channel. *Journal of Agricultural and Food Chemistry*, **1992**, 40, 497-505	5.7	26
109	1-(4-Ethynylphenyl)-2,6,7-trioxabicyclo[2.2.2]octanes: a new order of potency for insecticides acting at the GABA-gated chloride channel. *Journal of Agricultural and Food Chemistry*, **1989**, 37, 213-216	5.7	26
108	Dichloroacetamide herbicide antidotes enhance sulfate metabolism in corn roots. *Pesticide Biochemistry and Physiology*, **1983**, 19, 350-360	4.9	26
107	Lipases and their inhibitors in health and disease. *Chemico-Biological Interactions*, **2016**, 259, 211-222	5	26
106	Structural modifications increase the insecticidal activity of ryanodine. *Pest Management Science*, **1997**, 51, 33-38		25
105	Cellular function of neuropathy target esterase in lysophosphatidylcholine action. *Toxicology and Applied Pharmacology*, **2008**, 232, 376-83	4.6	25
104	Lysophosphatidylcholine hydrolases of human erythrocytes, lymphocytes, and brain: sensitive targets of conserved specificity for organophosphorus delayed neurotoxicants. *Toxicology and Applied Pharmacology*, **2007**, 224, 98-104	4.6	25
103	R-25788 Effects on Chlorsulfuron Injury and Acetohydroxyacid Synthase Activity. *Weed Science*, **1985**, 33, 462-468	2	25
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