John E Casida

List of Publications by Year
in descending order

259 papers	17,529 citations	13099 68 h-index	18130 120 g-index
260 all docs	260 docs citations	260 times ranked	10471 citing authors

#	Article	IF	Citations
1	NEONICOTINOID INSECTICIDE TOXICOLOGY: Mechanisms of Selective Action. Annual Review of Pharmacology and Toxicology, 2005, 45, 247-268.	9.4	1,306
2	SELECTIVETOXICITY OFNEONICOTINOIDSATTRIBUTABLE TOSPECIFICITY OFINSECT ANDMAMMALIANNICOTINICRECEPTORS. Annual Review of Entomology, 2003, 48, 339-364.	11.8	757
3	Neuroactive Insecticides: Targets, Selectivity, Resistance, and Secondary Effects. Annual Review of Entomology, 2013, 58, 99-117.	11.8	592
4	Golden Age of Insecticide Research: Past, Present, or Future?. Annual Review of Entomology, 1998, 43, 1-16.	11.8	548
5	Organophosphate Toxicology:â€‰ Safety Aspects of Nonacetylcholinesterase Secondary Targets. Chemical Research in Toxicology, 2004, 17, 983-998.	3.3	465
6	Mixed-function oxidase involvement in the biochemistry of insecticide synergists. Journal of Agricultural and Food Chemistry, 1970, 18, 753-772.	5.2	326
7	Mechanisms for Selective Toxicity of Fipronil Insecticide and Its Sulfone Metabolite and Desulfinyl Photoproduct. Chemical Research in Toxicology, 1998, 11, 1529-1535.	3.3	306
8	The calcium-Ryanodine receptor complex of skeletal and cardiac muscle. Biochemical and Biophysical Research Communications, 1985, 128, 449-456.	2.1	300
9	Pest Toxicology: The Primary Mechanisms of Pesticide Action. Chemical Research in Toxicology, 2009, 22, 609-619.	3.3	281
10	Neonicotinoid Metabolism: Compounds, Substituents, Pathways, Enzymes, Organisms, and Relevance. Journal of Agricultural and Food Chemistry, 2011, 59, 2923-2931.	5.2	265
11	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, 1184-1190.	3.9	213
12	Neonicotinoid Insecticides:Â Molecular Features Conferring Selectivity for Insect versus Mammalian Nicotinic Receptors. Journal of Agricultural and Food Chemistry, 2000, 48, 6016-6024.	5.2	204
13	Interactions of lindane, toxaphene and cyclodienes with brain-specific -butylbicyclophosphorothionate receptor. Life Sciences, 1984, 35, 171-178.	4.3	194
14	Neonicotinoids and Other Insect Nicotinic Receptor Competitive Modulators: Progress and Prospects. Annual Review of Entomology, 2018, 63, 125-144.	11.8	193
15	Rotenone, Deguelin, Their Metabolites, and the Rat Model of Parkinson's Disease. Chemical Research in Toxicology, 2004, 17, 1540-1548.	3.3	175
16	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.	3.6	170
17	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, 636-641.	7.1	170
18	Loss of neuropathy target esterase in mice links organophosphate exposure to hyperactivity. Nature Genetics, 2003, 33, 477-485.	21.4	164

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19	Neonicotinoid insecticides induce salicylate-associated plant defense responses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17527-17532.	7.1	163
20	Biological Activity of a Tri-o-Cresyl Phosphate Metabolite. Nature, 1961, 191, 1396-1397.	27.8	158
21	Serine hydrolase targets of organophosphorus toxicants. Chemico-Biological Interactions, 2005, 157-158, 277-283.	4.0	155
22	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, 7606-7611.	7.1	155
23	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.	3.6	153
24	Molecular Recognition of Neonicotinoid Insecticides: The Determinants of Life or Death. Accounts of Chemical Research, 2009, 42, 260-269.	15.6	152
25	Unique and Common Metabolites of Thiamethoxam, Clothianidin, and Dinotefuran in Mice. Chemical Research in Toxicology, 2006, 19, 1549-1556.	3.3	147
26	Structural model for Â-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, 5185-5190.	7.1	146
27	Comparative Metabolism and Pharmacokinetics of Seven Neonicotinoid Insecticides in Spinach. Journal of Agricultural and Food Chemistry, 2008, 56, 10168-10175.	5.2	145
28	Chloropyridinyl Neonicotinoid Insecticides:Â Diverse Molecular Substituents Contribute to Facile Metabolism in Mice. Chemical Research in Toxicology, 2006, 19, 944-951.	3.3	144
29	Imidacloprid insecticide metabolism: human cytochrome P450 isozymes differ in selectivity for imidazolidine oxidation versus nitroimine reduction. Toxicology Letters, 2002, 132, 65-70.	0.8	143
30	Novel nicotinic action of the sulfoximine insecticide sulfoxaflor. Insect Biochemistry and Molecular Biology, 2011, 41, 432-439.	2.7	142
31	Insect Nicotinic Acetylcholine Receptor: Conserved Neonicotinoid Specificity of [3H]Imidacloprid Binding Site. Journal of Neurochemistry, 2002, 75, 1294-1303.	3.9	130
32	Insecticide action at the GABA-gated chloride channel: Recognition, progress, and prospects. Archives of Insect Biochemistry and Physiology, 1993, 22, 13-23.	1.5	128
33	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, 7983-7987.	7.1	125
34	The Neonicotinoid Electronegative Pharmacophore Plays the Crucial Role in the High Affinity and Selectivity for theDrosophilaNicotinic Receptor:Â An Anomaly for the Nicotinoid Cationâˆ'Ï€ Interaction Modelâ€. Biochemistry, 2003, 42, 7819-7827.	2.5	124
35	Minor structural changes in nicotinoid insecticides confer differential subtype selectivity for mammalian nicotinic acetylcholine receptors. British Journal of Pharmacology, 1999, 127, 115-122.	5.4	123
36	Role of Human GABAA Receptor Î²3 Subunit in Insecticide Toxicity. Toxicology and Applied Pharmacology, 2001, 172, 233-240.	2.8	115

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37	Potentiation and neurotoxicity induced by certain organophosphates. Biochemical Pharmacology, 1963, 12, 73-83.	4.4	113
38	Pesticide Chemical Research in Toxicology: Lessons from Nature. Chemical Research in Toxicology, 2017, 30, 94-104.	3.3	110
39	Structure and diversity of insect nicotinic acetylcholine receptors. Pest Management Science, 2001, 57, 914-922.	3.4	109
40	Activation of the endocannabinoid system by organophosphorus nerve agents. Nature Chemical Biology, 2008, 4, 373-378.	8.0	108
41	Fatty Acid Amide Hydrolase Inhibition by Neurotoxic Organophosphorus Pesticides. Toxicology and Applied Pharmacology, 2001, 173, 48-55.	2.8	102
42	Golden Age of RyR and GABA-R Diamide and Isoxazoline Insecticides: Common Genesis, Serendipity, Surprises, Selectivity, and Safety. Chemical Research in Toxicology, 2015, 28, 560-566.	3.3	102
43	Novel GABA receptor pesticide targets. Pesticide Biochemistry and Physiology, 2015, 121, 22-30.	3.6	101
44	Structure-toxicity relationships of 2,6,7-trioxabicyclo[2.2.2]-octanes and related compounds. Toxicology and Applied Pharmacology, 1976, 36, 261-279.	2.8	100
45	Effects of pyrethroid structure on rates of hydrolysis and oxidation by mouse liver microsomal enzymes. Pesticide Biochemistry and Physiology, 1977, 7, 391-401.	3.6	99
46	t-[3H]Butylbicycloorthobenzoate: New Radioligand Probe for the ?-Aminobutyric Acid?Regulated Chloride Ionophore. Journal of Neurochemistry, 1985, 45, 798-804.	3.9	99
47	Glutathione <i>S</i>-Transferase Conjugation of Organophosphorus Pesticides Yields <i>S</i>-Phospho-, <i>S</i>-Aryl-, and <i>S</i>-Alkylglutathione Derivatives. Chemical Research in Toxicology, 2007, 20, 1211-1217.	3.3	94
48	Structural aspects of ryanodine action and selectivity. Journal of Medicinal Chemistry, 1987, 30, 710-716.	6.4	90
49	Metabolic chemistry of pyrethroid insecticides. Pest Management Science, 1980, 11, 257-269.	0.4	89
50	GABA-gated chloride channel: Binding site for 4â€²-ethynyl-4-n-[2,3-3H2]propylbicycloorthobenzoate ([3H]EBOB) in vertebrate brain and insect head. Pesticide Biochemistry and Physiology, 1992, 44, 1-8.	3.6	89
51	Anticholinesterase insecticide retrospective. Chemico-Biological Interactions, 2013, 203, 221-225.	4.0	88
52	Insect pyrethroid-hydrolyzing esterases. Pesticide Biochemistry and Physiology, 1974, 4, 465-472.	3.6	86
53	Polychlorocycloalkane insecticide-induced convulsions in mice in relation to disruption of the GABA-regulated chloride ionophore. Life Sciences, 1986, 39, 1855-1862.	4.3	83
54	New GABA/Glutamate Receptor Target for [³H]Isoxazoline Insecticide. Chemical Research in Toxicology, 2013, 26, 514-516.	3.3	81

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55	New Bioactive Flavonoids and Stilbenes in CubÃ© Resin Insecticide. Journal of Natural Products, 1999, 62, 205-210.	3.0	80
56	Imidacloprid, Thiacloprid, and Their Imine Derivatives Up-Regulate the Î±4Î²2 Nicotinic Acetylcholine Receptor in M10 Cells. Toxicology and Applied Pharmacology, 2000, 169, 114-120.	2.8	78
57	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, 2808-2815.	5.2	78
58	Pyrethroid Esterase(s) May Contribute to Natural Pyrethroid Tolerance of Larvae of the Common Green Lacewing 1. Environmental Entomology, 1981, 10, 681-684.	1.4	77
59	Insect Ryanodine Receptor: Distinct but Coupled Insecticide Binding Sites for [<i>N</i>-C³H₃]Chlorantraniliprole, Flubendiamide, and [³H]Ryanodine. Chemical Research in Toxicology, 2012, 25, 1571-1573.	3.3	77
60	Identification of Aldehyde Oxidase as the Neonicotinoid Nitroreductase. Chemical Research in Toxicology, 2005, 18, 317-323.	3.3	75
61	Monoacylglycerol lipase regulates 2-arachidonoylglycerol action and arachidonic acid levels. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5875-5878.	2.2	75
62	Detoxification of Î±- and Î²-Thujones (the Active Ingredients of Absinthe):â€‰ Site Specificity and Species Differences in Cytochrome P450 Oxidation in Vitro and in Vivo. Chemical Research in Toxicology, 2001, 14, 589-595.	3.3	74
63	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.	2.8	74
64	Mapping the elusive neonicotinoid binding site. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9075-9080.	7.1	74
65	Metabolic fate of pyrethrin I, pyrethrin II, and allethrin administered orally to rats. Journal of Agricultural and Food Chemistry, 1972, 20, 300-313.	5.2	73
66	Atypical nicotinic agonist bound conformations conferring subtype selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1728-1732.	7.1	73
67	Enzymes and Inhibitors in Neonicotinoid Insecticide Metabolism. Journal of Agricultural and Food Chemistry, 2009, 57, 4861-4866.	5.2	73
68	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, 1389-1401.	4.4	71
69	Drosophila GABA-gated chloride channel: Modified [3H]EBOB binding site associated with Ala â†' Ser or Gly mutants of Rdl subunit. Life Sciences, 1995, 56, 757-765.	4.3	71
70	Acephate Insecticide Toxicity:â€‰ Safety Conferred by Inhibition of the Bioactivating Carboxyamidase by the Metabolite Methamidophos. Chemical Research in Toxicology, 1997, 10, 64-69.	3.3	70
71	Structure-toxicity relationships of 1-substituted-4-alkyl-2,6,7-trioxabicyclo[2.2.2.]octanes. Toxicology and Applied Pharmacology, 1979, 47, 287-293.	2.8	69
72	Oxidative metabolism of pyrethroids in houseflies. Journal of Agricultural and Food Chemistry, 1969, 17, 1227-1236.	5.2	68

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73	Response of hepatic microsomal mixed-function oxidases to various types of insecticide chemical synergists administered to mice. Biochemical Pharmacology, 1971, 20, 1607-1618.	4.4	68
74	House fly brain Î³-aminobutyric acid-gated chloride channel: target for multiple classes of insecticides. Pesticide Biochemistry and Physiology, 1991, 41, 60-65.	3.6	67
75	Analgesic and Toxic Effects of Neonicotinoid Insecticides in Mice. Toxicology and Applied Pharmacology, 2001, 177, 77-83.	2.8	67
76	Species differences in chlorantraniliprole and flubendiamide insecticide binding sites in the ryanodine receptor. Pesticide Biochemistry and Physiology, 2013, 107, 321-326.	3.6	66
77	Detection and analysis of epoxides with 4-(p-nitrobenzyl)-pyridine. Bulletin of Environmental Contamination and Toxicology, 1974, 12, 759-764.	2.7	65
78	The insecticide target in the PSST subunit of complex I. Pest Management Science, 2001, 57, 932-940.	3.4	65
79	Organophosphorus Xenobiotic Toxicology. Annual Review of Pharmacology and Toxicology, 2017, 57, 309-327.	9.4	62
80	Pesticide Interactions: Mechanisms, Benefits, and Risks. Journal of Agricultural and Food Chemistry, 2017, 65, 4553-4561.	5.2	61
81	Whitefly (Hemiptera: Aleyrodidae) Binding Site for Imidacloprid and Related Insecticides: A Putative Nicotinic Acetylcholine Receptor. Journal of Economic Entomology, 1997, 90, 879-882.	1.8	60
82	Neonicotinoid Insecticides:Â Reduction and Cleavage of Imidacloprid Nitroimine Substituent by Liver Microsomal and Cytosolic Enzymes. Chemical Research in Toxicology, 2002, 15, 1158-1165.	3.3	60
83	Structural Features of Azidopyridinyl Neonicotinoid Probes Conferring High Affinity and Selectivity for Mammalian Î±4Î²2 and Drosophila Nicotinic Receptors. Journal of Medicinal Chemistry, 2002, 45, 2832-2840.	6.4	60
84	Why Insecticides are More Toxic to Insects than People: The Unique Toxicology of Insects. Journal of Pesticide Sciences, 2004, 29, 81-86.	1.4	60
85	Rotenone photodecomposition. Journal of Agricultural and Food Chemistry, 1972, 20, 850-856.	5.2	59
86	Novel and Potent 6-Chloro-3-pyridinyl Ligands for the Î±4Î²2 Neuronal Nicotinic Acetylcholine Receptorâ€¡. Journal of Medicinal Chemistry, 1999, 42, 2227-2234.	6.4	58
87	Insect Î³-Aminobutyric Acid Receptors and Isoxazoline Insecticides: Toxicological Profiles Relative to the Binding Sites of [³H]Fluralaner, [³H]-4â€²-Ethynyl-4-<i>n</i>-propylbicycloorthobenzoate, and [³H]Avermectin. Journal of Agricultural and Food Chemistry, 2014, 62, 1019-1024.	5.2	57
88	Novel Neonicotinoidâ€Agarose Affinity Column for <i>Drosophila</i> and <i>Musca</i> Nicotinic Acetylcholine Receptors. Journal of Neurochemistry, 1996, 67, 1669-1676.	3.9	56
89	Blood Acylpeptide Hydrolase Activity Is a Sensitive Marker for Exposure to Some Organophosphate Toxicants. Toxicological Sciences, 2005, 86, 291-299.	3.1	56
90	Neonicotinoid metabolic activation and inactivation established with coupled nicotinic receptor-CYP3A4 and -aldehyde oxidase systems. Toxicology Letters, 2006, 161, 108-114.	0.8	55

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91	Benomyl, Aldehyde Dehydrogenase, DOPAL, and the Catecholaldehyde Hypothesis for the Pathogenesis of Parkinsonâ€™s Disease. Chemical Research in Toxicology, 2014, 27, 1359-1361.	3.3	55
92	Cycloxaprid Insecticide: Nicotinic Acetylcholine Receptor Binding Site and Metabolism. Journal of Agricultural and Food Chemistry, 2013, 61, 7883-7888.	5.2	54
93	Aldehyde Oxidase Importance In Vivo in Xenobiotic Metabolism: Imidacloprid Nitroreduction in Mice. Toxicological Sciences, 2013, 133, 22-28.	3.1	54
94	Structure-biodegradability relationships in pyrethroid insecticides. Archives of Environmental Contamination and Toxicology, 1975, 3, 491-500.	4.1	53
95	Acifluorfen increases the leaf content of phytoalexins and stress metabolites in several crops. Journal of Agricultural and Food Chemistry, 1983, 31, 751-755.	5.2	53
96	Selective Inhibitors of Fatty Acid Amide Hydrolase Relative to Neuropathy Target Esterase and Acetylcholinesterase: Toxicological Implications. Toxicology and Applied Pharmacology, 2002, 179, 57-63.	2.8	53
97	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, 2611-2615.	4.4	52
98	Fenazaquin Acaricide Specific Binding Sites in NADH: Ubiquinone Oxidoreductase and Apparently the ATP Synthase Stalk. Pesticide Biochemistry and Physiology, 1996, 54, 135-145.	3.6	51
99	Insecticides in Chinese Medicinal Plants:Â Survey Leading to Jacaranone, A Neurotoxicant and Glutathione-Reactive Quinol. Journal of Agricultural and Food Chemistry, 2003, 51, 2544-2547.	5.2	51
100	Neonicotinoid Nitroguanidine Insecticide Metabolites:Â Synthesis and Nicotinic Receptor Potency of Guanidines, Aminoguanidines, and Their Derivatives. Chemical Research in Toxicology, 2005, 18, 1479-1484.	3.3	51
101	GABA _A receptor target of tetramethylenedisulfotetramine. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8607-8612.	7.1	51
102	Diamide Insecticide Target Site Specificity in the <i>Heliothis</i> and <i>Musca</i> Ryanodine Receptors Relative to Toxicity. Journal of Agricultural and Food Chemistry, 2014, 62, 4077-4082.	5.2	51
103	Photodecomposition of pyrethrin I, allethrin, phthalthrin, and dimethrin. Modifications in the acid moiety. Journal of Agricultural and Food Chemistry, 1969, 17, 208-215.	5.2	50
104	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.	3.6	50
105	A brain detoxifying enzyme for organophosphorus nerve poisons. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6195-6200.	7.1	49
106	Insect Nicotinic Acetylcholine Receptors:Â Neonicotinoid Binding Site Specificity Is Usually but Not Always Conserved with Varied Substituents and Species. Journal of Agricultural and Food Chemistry, 2006, 54, 3365-3371.	5.2	49
107	Toxaphene toxicant A. Mixture of 2,2,5-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, 991-994.	5.2	48
108	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.	5.2	48

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109	The ABCs of pesticide toxicology: amounts, biology, and chemistry. Toxicology Research, 2017, 6, 755-763.	2.1	48
110	Radiosynthesis and metabolism in rats of the 1R isomers of the insecticide permethrin. Journal of Agricultural and Food Chemistry, 1976, 24, 270-276.	5.2	47
111	COLOC-S: A modified COLOC sequence for selective long-range X-H correlation 2D NMR spectroscopy. Magnetic Resonance in Chemistry, 1987, 25, 837-842.	1.9	47
112	The Greening of Pesticideâ€“Environment Interactions: Some Personal Observations. Environmental Health Perspectives, 2012, 120, 487-493.	6.0	47
113	Unique Neonicotinoid Binding Conformations Conferring Selective Receptor Interactions. Journal of Agricultural and Food Chemistry, 2011, 59, 2825-2828.	5.2	46
114	Nereistoxin and Cartap Neurotoxicity Attributable to Direct Block of the Insect Nicotinic Receptor/Channel. Journal of Agricultural and Food Chemistry, 2003, 51, 2646-2652.	5.2	45
115	Chicken embryo nad levels lowered by teratogenic organophosphorus and methylcarbamate insecticidesag. Biochemical Pharmacology, 1976, 25, 757-762.	4.4	44
116	S-methylation as a bioactivation mechanism for mono- and dithiocarbamate pesticides as aldehyde dehydrogenase inhibitors. Chemical Research in Toxicology, 1995, 8, 1063-1069.	3.3	43
117	Mechanism for Benomyl Action as a Mitochondrial Aldehyde Dehydrogenase Inhibitor in Mice. Chemical Research in Toxicology, 1998, 11, 535-543.	3.3	43
118	Herbicide Safener-Binding Protein of Maize1. Plant Physiology, 1998, 116, 1083-1089.	4.8	42
119	Pyrethroid toxicology in the frog. Pesticide Biochemistry and Physiology, 1983, 20, 217-224.	3.6	41
120	9, 21-Didehydroryanodine: a new principal toxic constituent of the botanical insecticide Ryania. Journal of the Chemical Society Chemical Communications, 1984, , 1265.	2.0	41
121	Defining Nicotinic Agonist Binding Surfaces through Photoaffinity Labeling. Biochemistry, 2007, 46, 8798-8806.	2.5	41
122	Neonicotinoid Insecticides: Oxidative Stress in Planta and Metallo-oxidase Inhibition. Journal of Agricultural and Food Chemistry, 2011, 59, 4860-4867.	5.2	41
123	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.	5.2	40
124	Pyrethroid metabolism: microsomal oxidase metabolites of (S)-bioallethrin and the six natural pyrethrins. Journal of Agricultural and Food Chemistry, 1990, 38, 529-537.	5.2	40
125	Substrate Specificity of Rabbit Aldehyde Oxidase for Nitroguanidine and Nitromethylene Neonicotinoid Insecticides. Chemical Research in Toxicology, 2006, 19, 38-43.	3.3	40
126	Metabolism of thecis- andtrans-isomers of cypermethrin in mice. Pest Management Science, 1981, 12, 385-398.	0.4	39

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127	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, 180-186.	2.8	39
128	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, 17273-17277.	7.1	39
129	Synthesis of a Novel [125I]Neonicotinoid Photoaffinity Probe for theDrosophilaNicotinic Acetylcholine Receptor. Bioconjugate Chemistry, 1997, 8, 7-14.	3.6	38
130	Regional Modification of [3H]Ethynylbicycloorthobenzoate Binding in Mouse Brain GABAA Receptor by Endosulfan, Fipronil, and Avermectin B1a. Toxicology and Applied Pharmacology, 2000, 163, 188-194.	2.8	38
131	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, 162-167.	3.3	37
132	Organophosphate-sensitive lipases modulate brain lysophospholipids, ether lipids and endocannabinoids. Chemico-Biological Interactions, 2008, 175, 355-364.	4.0	37
133	Cartap Hydrolysis Relative to Its Action at the Insect Nicotinic Channel. Journal of Agricultural and Food Chemistry, 2004, 52, 95-98.	5.2	36
134	Solubilization and Detergent Effects on Interactions of Some Drugs and Insecticides with the t-Butylbicyclophosphorothionate Binding Site Within the ?-Aminobutyric Acid Receptor-Ionophore Complex. Journal of Neurochemistry, 1985, 44, 110-116.	3.9	35
135	Neonicotinoid formaldehyde generators: Possible mechanism of mouse-specific hepatotoxicity/hepatocarcinogenicity of thiamethoxam. Toxicology Letters, 2013, 216, 139-145.	0.8	35
136	Cellular function of neuropathy target esterase in lysophosphatidylcholine action. Toxicology and Applied Pharmacology, 2008, 232, 376-383.	2.8	34
137	5-Azidoimidacloprid and an Acyclic Analogue as Candidate Photoaffinity Probes for Mammalian and Insect Nicotinic Acetylcholine Receptors. Journal of Medicinal Chemistry, 2000, 43, 5003-5009.	6.4	33
138	Glufosinate binds N-methyl-d-aspartate receptors and increases neuronal network activity in vitro. NeuroToxicology, 2014, 45, 38-47.	3.0	33
139	Acute toxicity, bioconcentration, elimination and antioxidant effects of fluralaner in zebrafish, Danio rerio. Environmental Pollution, 2018, 232, 183-190.	7.5	33
140	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.	5.2	32
141	Dialkylquinonimines Validated as in Vivo Metabolites of Alachlor, Acetochlor, and Metolachlor Herbicides in Rats. Chemical Research in Toxicology, 1998, 11, 353-359.	3.3	32
142	Chemical model for phosphine-induced lipid peroxidation. Pest Management Science, 2000, 56, 779-783.	3.4	32
143	Synthesis of a Tritium-Labeled, Fipronil-Based, Highly Potent, Photoaffinity Probe for the GABA Receptor. Journal of Organic Chemistry, 2003, 68, 8075-8079.	3.2	32
144	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.	2.8	31

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145	Effects of insecticides and GABAergic agents on a house fly [35S]t-butylbicyclophosphorothionate binding site. Pesticide Biochemistry and Physiology, 1986, 25, 63-72.	3.6	31
146	Three-bond13Cï£¿1H coupling constants for chrysanthemic acid and phenothrin metabolites: Detection by two-dimensional long-range13Cï£¿1HJ-resolution spectroscopy. Magnetic Resonance in Chemistry, 1993, 31, 90-93.	1.9	31
147	Curious about Pesticide Action. Journal of Agricultural and Food Chemistry, 2011, 59, 2762-2769.	5.2	31
148	Lipases and their inhibitors in health and disease. Chemico-Biological Interactions, 2016, 259, 211-222.	4.0	31
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