

Ian M Scott

List of Publications by Year in descending order

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55
papers

1,836
citations

236925

25
h-index

265206

42
g-index

57
all docs

57
docs citations

57
times ranked

2224
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of acetylcholinesterase activity to detect sublethal toxicity in stream invertebrates exposed to low concentrations of organophosphate insecticides. <i>Aquatic Toxicology</i> , 1990, 18, 101-113.	4.0	194
2	A review of <i>Piper</i> spp. (Piperaceae) phytochemistry, insecticidal activity and mode of action. <i>Phytochemistry Reviews</i> , 2007, 7, 65-75.	6.5	173
3	Botanical insecticides for controlling agricultural pests: Piperamides and the Colorado potato beetle <i>Leptinotarsa decemlineata</i> Say (Coleoptera: Chrysomelidae). <i>Archives of Insect Biochemistry and Physiology</i> , 2003, 54, 212-225.	1.5	109
4	Overexpression of a cytochrome P450 and a UDP-glycosyltransferase is associated with imidacloprid resistance in the Colorado potato beetle, <i>Leptinotarsa decemlineata</i> . <i>Scientific Reports</i> , 2017, 7, 1762.	3.3	101
5	Insecticidal and bactericidal characteristics of the bio-oil from the fast pyrolysis of coffee grounds. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 224-231.	5.5	97
6	Insecticidal activity of <i>Piper tuberculatum</i> Jacq. extracts: synergistic interaction of piperamides. <i>Agricultural and Forest Entomology</i> , 2002, 4, 137-144.	1.3	77
7	Experimental Investigations into the Insecticidal, Fungicidal, and Bactericidal Properties of Pyrolysis Bio-oil from Tobacco Leaves Using a Fluidized Bed Pilot Plant. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10074-10079.	3.7	67
8	Analysis of Piperaceae Germplasm by HPLC and LCMS: A Method for Isolating and Identifying Unsaturated Amides from <i>Piper</i> spp Extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 1907-1913.	5.2	64
9	Laboratory studies of insecticide efficacy and resistance in <i>Drosophila suzukii</i> (Matsumura) (Diptera: Drosophilidae) populations from British Columbia, Canada. <i>Pest Management Science</i> , 2017, 73, 130-137.	3.4	59
10	Efficacy of <i>Piper</i> (Piperaceae) Extracts for Control of Common Home and Garden Insect Pests. <i>Journal of Economic Entomology</i> , 2004, 97, 1390-1403.	1.8	51
11	Response of a Generalist Herbivore <i>Trichoplusia ni</i> to Jasmonate-Mediated Induced Defense in Tomato. <i>Journal of Chemical Ecology</i> , 2010, 36, 490-499.	1.8	51
12	Insecticide resistance and cross-resistance development in Colorado potato beetle <i>Leptinotarsa decemlineata</i> Say (Coleoptera: Chrysomelidae) populations in Canada 2008-2011. <i>Pest Management Science</i> , 2015, 71, 712-721.	3.4	49
13	Repellent and Attractive Effects of β -, γ -, and Dihydro- β - Ionone to Generalist and Specialist Herbivores. <i>Journal of Chemical Ecology</i> , 2016, 42, 107-117.	1.8	45
14	Efficacy of Botanical Insecticides from <i>Piper</i> Species (Piperaceae) Extracts For Control of European Chafer (Coleoptera: Scarabaeidae). <i>Journal of Economic Entomology</i> , 2005, 98, 845-855.	1.8	39
15	Insecticidal and anti-microbial activity of bio-oil derived from fast pyrolysis of lignin, cellulose, and hemicellulose. <i>Journal of Pest Science</i> , 2015, 88, 171-179.	3.7	38
16	Insecticidal properties of pyrolysis bio-oil from greenhouse tomato residue biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 112, 333-340.	5.5	34
17	Gene Expression Profiles of <i>Drosophila melanogaster</i> Exposed to an Insecticidal Extract of <i>Piper nigrum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 1289-1295.	5.2	33
18	The effect of a synergistic concentration of a <i>Piper nigrum</i> extract used in conjunction with pyrethrum upon gene expression in <i>Drosophila melanogaster</i> . <i>Insect Molecular Biology</i> , 2006, 15, 329-339.	2.0	33

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19	INHIBITION OF INSECT GLUTATHIONE S-TRANSFERASE (GST) BY CONIFER EXTRACTS. Archives of Insect Biochemistry and Physiology, 2014, 87, 234-249.	1.5	33
20	Alkaloids from <i>Eschscholzia californica</i> and Their Capacity to Inhibit Binding of [3H]8-Hydroxy-2-(di-N-propylamino)tetralin to 5-HT _{1A} Receptors in Vitro#. Journal of Natural Products, 2006, 69, 432-435.	3.0	30
21	Extracts of Canadian First Nations Medicinal Plants, Used as Natural Products, Inhibit <i>Neisseria gonorrhoeae</i> Isolates With Different Antibiotic Resistance Profiles. Sexually Transmitted Diseases, 2011, 38, 667-671.	1.7	30
22	Conifer flavonoid compounds inhibit detoxification enzymes and synergize insecticides. Pesticide Biochemistry and Physiology, 2016, 127, 1-7.	3.6	30
23	Toxicity of lignin, cellulose and hemicellulose-pyrolyzed bio-oil combinations: Estimating pesticide resources. Journal of Analytical and Applied Pyrolysis, 2013, 99, 211-216.	5.5	29
24	Susceptibility in field populations of codling moth, <i>Cydia pomonella</i> (L.) (Lepidoptera: Tortricidae). Journal of Applied Entomology, 2015, 71, 234-242.	3.4	28
25	The Toxicity of a Neem Insecticide to Populations of Culicidae and Other Aquatic Invertebrates as Assessed in In Situ Microcosms. Archives of Environmental Contamination and Toxicology, 2000, 39, 329-336.	4.1	27
26	Dillapiol: A Pyrethrum Synergist for Control of the Colorado Potato Beetle. Journal of Economic Entomology, 2014, 107, 797-805.	1.8	27
27	The Inhibition of Human Cytochrome P450 by Ethanol Extracts of North American Botanicals. Pharmaceutical Biology, 2006, 44, 315-327.	2.9	25
28	The Toxicity of Margosan-O, a Product of Neem Seeds, to Selected Target and Nontarget Aquatic Invertebrates. Archives of Environmental Contamination and Toxicology, 1998, 35, 426-431.	4.1	23
29	Insecticidal Activity of Bio-oil from the Pyrolysis of Straw from <i>Brassica</i> spp.. Journal of Agricultural and Food Chemistry, 2014, 62, 3610-3618.	5.2	23
30	Use of an mfo-directed toxicity identification evaluation to isolate and characterize bioactive impurities from a lampricide formulation. Environmental Toxicology and Chemistry, 1996, 15, 894-905.	4.3	21
31	Environmental characterization of surface runoff from three highway sites in Southern Ontario, Canada: 2. Toxicology. Water Quality Research Journal of Canada, 2011, 46, 121-136.	2.7	17
32	Resistance to pyridaben in Canadian greenhouse populations of two-spotted spider mites, <i>Tetranychus urticae</i> (Koch). Pesticide Biochemistry and Physiology, 2020, 170, 104677.	3.6	17
33	Efficacy of <i>Piper nigrum</i> (Piperaceae) extract for control of insect defoliators of forest and ornamental trees. Canadian Entomologist, 2007, 139, 513-522.	0.8	15
34	Environmental characterization of surface runoff from three highway sites in Southern Ontario, Canada: 1. Chemistry. Water Quality Research Journal of Canada, 2011, 46, 110-120.	2.7	15
35	Bioenergy II: Characterization of the Pesticide Properties of Tobacco Bio-Oil. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	14
36	Hepatic mixed function oxygenase activity and vitellogenin induction in fish following a treatment of the lampricide 3-trifluoromethyl-4-nitrophenol (TFM). Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 2078-2086.	1.4	12

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37	Optimizing pyrolysis reactor operating conditions to increase nicotine recovery from tobacco leaves. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 112, 80-87.	5.5	12
38	A two-dimensional pyrolysis process to concentrate nicotine during tobacco leaf bio-oil production. <i>Industrial Crops and Products</i> , 2018, 124, 136-141.	5.2	12
39	Costs of Insecticide Resistance in <i>Cydia pomonella</i> (Lepidoptera: Tortricidae). <i>Journal of Economic Entomology</i> , 2012, 105, 872-877.	1.8	11
40	Application of Novel Pyrolysis Reactor Technology to Concentrate Bio-oil Components with Antioxidant Activity from Tobacco, Tomato and Coffee Ground Biomass. <i>Waste and Biomass Valorization</i> , 2018, 9, 1607-1617.	3.4	10
41	In vitro activity of uva-ursi against cytochrome P450 isoenzymes and P-glycoprotein. This article is one of a selection of papers published in this special issue (part 2 of 2) on the Safety and Efficacy of Natural Health Products.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2007, 85, 1099-1107.	1.4	9
42	The Buckwheat Effect: A Biopesticide for Wireworm?. <i>Journal of Economic Entomology</i> , 2019, 112, 625-632.	1.8	8
43	Insecticide resistance monitoring in whitefly (<i>Bemisia tabaci</i>) (Hemiptera: Aleyrodidae) in Oman. <i>Journal of Asia-Pacific Entomology</i> , 2020, 23, 1248-1254.	0.9	8
44	Abomasal dysfunction and cellular and mucin changes during infection of sheep with larval or adult <i>Teladorsagia circumcincta</i> . <i>PLoS ONE</i> , 2017, 12, e0186752.	2.5	6
45	Application of 1D and 2D MFR reactor technology for the isolation of insecticidal and anti-microbial properties from pyrolysis bio-oils. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016, 51, 860-867.	1.5	5
46	Proteomic Analyses Detect Higher Expression of C-Type Lectins in Imidacloprid-Resistant Colorado Potato Beetle <i>Leptinotarsa decemlineata</i> Say. <i>Insects</i> , 2021, 12, 3.	2.2	5
47	Plant growth regulator-mediated anti-herbivore responses of cabbage (<i>Brassica oleracea</i>) against cabbage looper <i>Trichoplusia ni</i> (Lepidoptera: Noctuidae). <i>Pesticide Biochemistry and Physiology</i> , 2017, 141, 9-17.	3.6	4
48	In vivo extraction of volatile organic compounds (VOCs) from Micro-Tom tomato flowers with multiple solid phase microextraction (SPME) fibers. <i>Canadian Journal of Chemistry</i> , 2015, 93, 143-150.	1.1	3
49	Host plant defenses of black (<i>Solanum nigrum</i> L.) and red nightshade (<i>Solanum villosum</i> Mill.) against specialist Solanaceae herbivore <i>Leptinotarsa decemlineata</i> (Say). <i>Archives of Insect Biochemistry and Physiology</i> , 2019, 101, e21550.	1.5	3
50	The Antioxidant and Enzyme Inhibitory Activity of Balsam Fir (<i>Abies balsamea</i> (L.) Mill.) Bark Solvent Extracts and Pyrolysis Oil. <i>Waste and Biomass Valorization</i> , 2019, 10, 3295-3306.	3.4	3
51	Soybean (<i>Glycine max</i> L Merr) host-plant defenses and resistance to the two-spotted spider mite (<i>Tetranychus urticae</i> Koch). <i>PLoS ONE</i> , 2021, 16, e0258198.	2.5	3
52	Career decision making in medical school: how medical students choose in the early years. <i>Medical Teacher</i> , 2008, 30, 543-545.	1.8	1
53	USE OF AN MFO-DIRECTED TOXICITY IDENTIFICATION EVALUATION TO ISOLATE AND CHARACTERIZE BIOACTIVE IMPURITIES FROM A LAMPICIDE FORMULATION. <i>Environmental Toxicology and Chemistry</i> , 1996, 15, 894.	4.3	1
54	Investigation of Metabolic Resistance to Soybean Aphid (<i>Aphis glycines</i> Matsumura) Feeding in Soybean Cultivars. <i>Insects</i> , 2022, 13, 356.	2.2	1

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55	Non-target Effects of Hyperthermostable Î±-Amylase Transgenic <i>Nicotiana tabacum</i> in the Laboratory and the Field. <i>Frontiers in Plant Science</i> , 2019, 10, 878.	3.6	0