

May R Berenbaum

List of Publications by Year in descending order

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94
papers

8,618
citations

66343

42
h-index

48315

88
g-index

95
all docs

95
docs citations

95
times ranked

7383
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Mechanisms of Metabolic Resistance to Synthetic and Natural Xenobiotics. Annual Review of Entomology, 2007, 52, 231-253.	11.8	1,617
2	Insect decline in the Anthropocene: Death by a thousand cuts. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	888
3	Functional and Evolutionary Insights from the Genomes of Three Parasitoid <i>Nasonia</i> Species. Science, 2010, 327, 343-348.	12.6	808
4	Xenobiotic detoxification pathways in honey bees. Current Opinion in Insect Science, 2015, 10, 51-58.	4.4	284
5	Structural and functional divergence of insect CYP6B proteins: From specialist to generalist cytochrome P450. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2939-2944.	7.1	262
6	Honey constituents up-regulate detoxification and immunity genes in the western honey bee <i>Apis mellifera</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8842-8846.	7.1	246
7	Jasmonate and salicylate induce expression of herbivore cytochrome P450 genes. Nature, 2002, 419, 712-715.	27.8	233
8	CYP9Q-mediated detoxification of acaricides in the honey bee (<i>Apis mellifera</i>). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12657-12662.	7.1	223
9	Anthropogenic increase in carbon dioxide compromises plant defense against invasive insects. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5129-5133.	7.1	197
10	Changes in transcript abundance relating to colony collapse disorder in honey bees (<i>Apis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 106, 14790-14795.	7.1	196
11	Synergistic Interactions Between In-Hive Miticides in <i>Apis mellifera</i> . Journal of Economic Entomology, 2009, 102, 474-479.	1.8	182
12	Postgenomic chemical ecology: from genetic code to ecological interactions. Journal of Chemical Ecology, 2002, 28, 873-896.	1.8	167
13	Diversification of furanocoumarin-metabolizing cytochrome P450 monooxygenases in two papilionids: Specificity and substrate encounter rate. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14593-14598.	7.1	167
14	Mediation of Pyrethroid Insecticide Toxicity to Honey Bees (Hymenoptera: Apidae) by Cytochrome P450 Monooxygenases. Journal of Economic Entomology, 2006, 99, 1046-1050.	1.8	142
15	Indirect effects of insect herbivory on leaf gas exchange in soybean. Plant, Cell and Environment, 2005, 28, 402-411.	5.7	133
16	Molecular analysis of CYP321A1, a novel cytochrome P450 involved in metabolism of plant allelochemicals (furanocoumarins) and insecticides (cypermethrin) in <i>Helicoverpa zea</i> . Gene, 2004, 338, 163-175.	2.2	132
17	Ecologically Appropriate Xenobiotics Induce Cytochrome P450s in <i>Apis mellifera</i> . PLoS ONE, 2012, 7, e31051.	2.5	126
18	Quercetin-metabolizing CYP6AS enzymes of the pollinator <i>Apis mellifera</i> (Hymenoptera: Apidae). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2009, 154, 427-434.	1.6	125

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19	Anthropogenic Changes in Tropospheric Composition Increase Susceptibility of Soybean to Insect Herbivory. <i>Environmental Entomology</i> , 2005, 34, 479-485.	1.4	115
20	Disruption of quercetin metabolism by fungicide affects energy production in honey bees (<i>Apis mellifera</i>). <i>Journal of Insect Physiology</i> , 2014, 114, 2538-2543.	7.1	112
21	Plant allelochemicals differentially regulate <i>Helicoverpa zea</i> cytochrome P450 genes. <i>Insect Molecular Biology</i> , 2002, 11, 343-351.	2.0	110
22	Metabolism of linear and angular furanocoumarins by <i>Papilio polyxenes</i> CYP6B1 co-expressed with NADPH cytochrome P450 reductase. <i>Insect Biochemistry and Molecular Biology</i> , 2003, 33, 937-947.	2.7	110
23	Elevated CO ₂ reduces leaf damage by insect herbivores in a forest community. <i>New Phytologist</i> , 2005, 167, 207-218.	7.3	86
24	Structure and Function of Cytochrome P450s in Insect Adaptation to Natural and Synthetic Toxins: Insights Gained from Molecular Modeling. <i>Journal of Chemical Ecology</i> , 2013, 39, 1232-1245.	1.8	85
25	CYP6B1 and CYP6B3 of the Black Swallowtail (<i>Papilio polyxenes</i>): Adaptive Evolution through Subfunctionalization. <i>Molecular Biology and Evolution</i> , 2006, 23, 2434-2443.	8.9	83
26	A dietary phytochemical alters caste-associated gene expression in honey bees. <i>Science Advances</i> , 2015, 1, e1500795.	10.3	81
27	Mediation of Pyrethroid Insecticide Toxicity to Honey Bees (Hymenoptera: Apidae) by Cytochrome P450 Monooxygenases. <i>Journal of Economic Entomology</i> , 2006, 99, 1046-1050.	1.8	70
28	Regulation of an insect cytochrome P450 monooxygenase gene (CYP6B1) by aryl hydrocarbon and xanthotoxin response cascades. <i>Gene</i> , 2005, 358, 39-52.	2.2	69
29	Cytochrome P450 diversification and hostplant utilization patterns in specialist and generalist moths: Birth, death and adaptation. <i>Molecular Ecology</i> , 2017, 26, 6021-6035.	3.9	68
30	Behavioral responses of honey bees (<i>Apis mellifera</i>) to natural and synthetic xenobiotics in food. <i>Scientific Reports</i> , 2017, 7, 15924.	3.3	67
31	Toxicity of mycotoxins to honeybees and its amelioration by propolis. <i>Apidologie</i> , 2011, 42, 79-87.	2.0	66
32	Conserved regulatory elements in the promoters of two allelochemical-inducible cytochrome P450 genes differentially regulate transcription. <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 1129-1139.	2.7	62
33	A substrate-specific cytochrome P450 monooxygenase, CYP6AB11, from the polyphagous navel orangeworm (<i>Amyelois transitella</i>). <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 244-253.	2.7	60
34	Transcriptional regulation of the <i>Papilio polyxenes</i> CYP6B1 gene. <i>Nucleic Acids Research</i> , 1994, 22, 3210-3217.	14.5	56
35	Allelochemical Induction of Cytochrome P450 Monooxygenases and Amelioration of Xenobiotic Toxicity in <i>Helicoverpa zea</i> . <i>Journal of Chemical Ecology</i> , 2007, 33, 449-461.	1.8	55
36	Effects of elevated CO ₂ and O ₃ on leaf damage and insect abundance in a soybean agroecosystem. <i>Arthropod-Plant Interactions</i> , 2008, 2, 125-135.	1.1	55

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37	Aflatoxin B1 detoxification by CYP321A1 in <i>Helicoverpa zea</i> . Archives of Insect Biochemistry and Physiology, 2008, 69, 32-45.	1.5	53
38	Impacts of Dietary Phytochemicals in the Presence and Absence of Pesticides on Longevity of Honey Bees (<i>Apis mellifera</i>). Insects, 2017, 8, 22.	2.2	53
39	Laboratory Rearing of the Parsnip Webworm, <i>Depressaria pastinacella</i> (Lepidoptera: Oecophoridae). Annals of the Entomological Society of America, 1988, 81, 485-487.	2.5	52
40	Insect herbivory in an intact forest understory under experimental CO ₂ enrichment. Oecologia, 2004, 138, 566-573.	2.0	52
41	Ecological Significance of Induction of Broad-Substrate Cytochrome P450s by Natural and Synthetic Inducers in <i>Helicoverpa zea</i> . Journal of Chemical Ecology, 2009, 35, 183-189.	1.8	52
42	Transcriptional response elements in the promoter of CYP6B1, an insect P450 gene regulated by plant chemicals. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 269-282.	2.4	46
43	Comparative Toxicity of Mycotoxins to Navel Orangeworm (<i>Amyelois transitella</i>) and Corn Earworm (<i>Helicoverpa zea</i>). Journal of Chemical Ecology, 2009, 35, 951-957.	1.8	38
44	Does the Honey Bee "Risk Cup" Runneth Over? Estimating Aggregate Exposures for Assessing Pesticide Risks to Honey Bees in Agroecosystems. Journal of Agricultural and Food Chemistry, 2016, 64, 13-20.	5.2	37
45	Toxicity of Aflatoxin B1 to <i>Helicoverpa zea</i> and Bioactivation by Cytochrome P450 Monooxygenases. Journal of Chemical Ecology, 2006, 32, 1459-1471.	1.8	35
46	Metabolism of myristicin by <i>Depressaria pastinacella</i> CYP6AB3v2 and inhibition by its metabolite. Insect Biochemistry and Molecular Biology, 2008, 38, 645-651.	2.7	31
47	Mechanism of Resistance Acquisition and Potential Associated Fitness Costs in <i>Amyelois transitella</i> (Lepidoptera: Pyralidae) Exposed to Pyrethroid Insecticides. Environmental Entomology, 2015, 44, 855-863.	1.4	31
48	Honey Bees and Environmental Stress: Toxicologic Pathology of a Superorganism. Toxicologic Pathology, 2019, 47, 1076-1081.	1.8	30
49	Generalist and specialist host-parasitoid associations respond differently to wild parsnip (<i>Pastinaca</i>) Tj ETQq1 1 0.784314 rgBT /Overl 2.2 29	2.2	29
50	Genomic footprint of evolution of eusociality in bees: floral food use and CYPome "blooms". Insectes Sociaux, 2018, 65, 445-454.	1.2	29
51	Cytochrome P450-Mediated Metabolism of Xanthotoxin by <i>Papilio multicaudatus</i> . Journal of Chemical Ecology, 2006, 32, 523-536.	1.8	28
52	Biphasic concentration-dependent interaction between imidacloprid and dietary phytochemicals in honey bees (<i>Apis mellifera</i>). PLoS ONE, 2018, 13, e0206625.	2.5	28
53	Phenological changes in primary and secondary chemistry of reproductive parts in wild parsnip. Phytochemistry, 1997, 44, 825-831.	2.9	27
54	Honey as a Functional Food for <i>Apis mellifera</i> . Annual Review of Entomology, 2021, 66, 185-208.	11.8	27

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55	Effects of a Naturally Occurring and a Synthetic Synergist on Toxicity of Three Insecticides and a Phytochemical to Navel Orangeworm (Lepidoptera: Pyralidae). <i>Journal of Economic Entomology</i> , 2012, 105, 410-417.	1.8	25
56	No buzz for bees: Media coverage of pollinator decline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	24
57	Foliage of Oaks Grown Under Elevated Co2 Reduces Performance of <i>Antheraea polyphemus</i> (Lepidoptera: Saturniidae). <i>Environmental Entomology</i> , 2007, 36, 609-617.	1.4	22
58	Foliage of Oaks Grown Under Elevated CO ₂ Reduces Performance of <i>Antheraea polyphemus</i> (Lepidoptera: Saturniidae). <i>Environmental Entomology</i> , 2007, 36, 609-617.	1.4	22
59	Impact of Pesticide Resistance on Toxicity and Tolerance of Hostplant Phytochemicals in <i>Amyelois transitella</i> (Lepidoptera: Pyralidae). <i>Journal of Insect Science</i> , 2016, 16, iew063.	1.5	22
60	Effect of Piperonyl Butoxide on the Toxicity of Four Classes of Insecticides to Navel Orangeworm (<i>Amyelois transitella</i>) (Lepidoptera: Pyralidae). <i>Journal of Economic Entomology</i> , 2015, 108, 2753-2760.	1.8	21
61	Aflatoxin B1: Toxicity, bioactivation and detoxification in the polyphagous caterpillar <i>Trichoplusia ni</i> . <i>Insect Science</i> , 2013, 20, 318-328.	3.0	19
62	Selective Sweeps in a Nutshell: The Genomic Footprint of Rapid Insecticide Resistance Evolution in the Almond Agroecosystem. <i>Genome Biology and Evolution</i> , 2021, 13, .	2.5	19
63	Cytochrome P450-mediated mycotoxin metabolism by plant-feeding insects. <i>Current Opinion in Insect Science</i> , 2021, 43, 85-91.	4.4	18
64	Elevated atmospheric CO ₂ alters the arthropod community in a forest understory. <i>Acta Oecologica</i> , 2012, 43, 80-85.	1.1	17
65	Larval Preference and Performance of <i>Amyelois transitella</i> (Navel Orangeworm, Lepidoptera: Pyralidae) in Relation to the Fungus <i>Aspergillus flavus</i> . <i>Environmental Entomology</i> , 2016, 45, 155-162.	1.4	17
66	Behavioral responses of the parsnip webworm to host plant volatiles. <i>Journal of Chemical Ecology</i> , 2002, 28, 2191-2201.	1.8	14
67	Role of detoxification in <i>Varroa destructor</i> (Acari: Varroidae) tolerance of the miticide tau-fluvalinate. <i>International Journal of Acarology</i> , 2010, 36, 1-6.	0.7	14
68	Impact of agricultural adjuvants on the toxicity of the diamide insecticides chlorantraniliprole and flubendiamide on different life stages of the navel orangeworm (<i>Amyelois transitella</i>). <i>Journal of Pest Science</i> , 2018, 91, 1127-1136.	3.7	14
69	Orientation of Navel Orangeworm (Lepidoptera: Pyralidae) Larvae and Adults Toward Volatiles Associated With Almond Hull Split and <i>Aspergillus flavus</i> . <i>Environmental Entomology</i> , 2017, 46, 602-608.	1.4	12
70	Fungicide suppression of flight performance in the honeybee (<i>Apis mellifera</i>) and its amelioration by quercetin. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20192041.	2.6	12
71	Increase in longevity and amelioration of pesticide toxicity by natural levels of dietary phytochemicals in the honey bee, <i>Apis mellifera</i> . <i>PLoS ONE</i> , 2020, 15, e0243364.	2.5	12
72	Ameliorative Effects of Phytochemical Ingestion on Viral Infection in Honey Bees. <i>Insects</i> , 2020, 11, 698.	2.2	11

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73	Accelerated Development and Toxin Tolerance of the Navel Orangeworm <i>Amyelois transitella</i> (Lepidoptera: Pyralidae) in the Presence of <i>Aspergillus flavus</i> . <i>Journal of Chemical Ecology</i> , 2018, 44, 1170-1177.	1.8	9
74	On COVID-19, cognitive bias, and open access. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
75	On zombies, struldbrugs, and other horrors of the scientific literature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
76	Factors Associated with Variation in Cuticular Hydrocarbon Profiles in the Navel Orangeworm, <i>Amyelois transitella</i> (Lepidoptera: Pyralidae). <i>Journal of Chemical Ecology</i> , 2020, 46, 40-47.	1.8	7
77	PNAS and prejudice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16710-16712.	7.1	7
78	PNAS and the pandemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9650-9651.	7.1	7
79	Aliphatic Esters as Targets of Esterase Activity in the Parsnip Webworm (<i>Depressaria pastinacella</i>). <i>Journal of Chemical Ecology</i> , 2012, 38, 188-194.	1.8	6
80	Bees in Crisis: Colony Collapse, Honey Laundering, and Other Problems Bee-Setting American Apiculture. <i>Proceedings of the American Philosophical Society</i> , 2014, 158, 229-47.	0.5	6
81	Pathology in Ecological Research With Implications for One Health: Session Summary. <i>Toxicologic Pathology</i> , 2019, 47, 1072-1075.	1.8	5
82	On Mr. Hyslop's prediction, content archives, and preprint servers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9131-9134.	7.1	5
83	Editorial overview: Cytochrome P450s in plant-insect interactions: new insights on gut reactions. <i>Current Opinion in Insect Science</i> , 2021, 43, vi-ix.	4.4	4
84	Specific phytochemicals in floral nectar upregulate genes involved in longevity regulation and xenobiotic metabolism, extending mosquito life span. <i>Ecology and Evolution</i> , 2021, 11, 8363-8380.	1.9	3
85	Thomas Eisner: Interpreter extraordinaire of nature's chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19482-19483.	7.1	2
86	Host Plant Records of <i>Antherina suraka</i> (Boisduval, 1833) (Saturniidae) in Madagascar. <i>Journal of the Lepidopterists' Society</i> , 2014, 68, 130-140.	0.2	2
87	Meanwhile, back at the National Academies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3343-3344.	7.1	2
88	Differential regulation of cytochrome P450 genes associated with biosynthesis and detoxification in bifenthrin-resistant populations of navel orangeworm (<i>Amyelois transitella</i>). <i>PLoS ONE</i> , 2021, 16, e0245803.	2.5	2
89	A new, prairie-restricted species of Filatima Busck (Lepidoptera: Tj ETQq 1 0.784314 rgBT /Ove	0.5	1
90	Intraspecific Variation in <i>Antherina suraka</i> (Lepidoptera: Saturniidae), an Endemic Resident of Endangered Forests in Madagascar. <i>Annals of the Entomological Society of America</i> , 2016, 109, 384-395.	2.5	1

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91	<p>A new, prairie-restricted species of <i>Anacampsis</i> Curtis (Lepidoptera: Gelechiidae) from Illinois</p>	0.5	0
92	<p><i>Anacampsis rhoifructella</i> (Clemens): clarification of its identity and larval biology, and differentiation from a similar species, <i>Anacampsis consonella</i> (Zeller), revised status (Lepidoptera: Gelechiidae)</p>	0.5	0
93	Speaking of insects. Science, 2016, 353, 1343-1343.	12.6	0
94	PNAS rebrand: Improving accessibility in its many forms. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201928119.	7.1	0