

Richard Roe

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,785
citations

218592

26
h-index

189801

50
g-index

80
all docs

80
docs citations

80
times ranked

2984
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic insights into the <i>Ixodes scapularis</i> tick vector of Lyme disease. <i>Nature Communications</i> , 2016, 7, 10507.	5.8	450
2	Molecular traces of alternative social organization in a termite genome. <i>Nature Communications</i> , 2014, 5, 3636.	5.8	371
3	Variation in the Microbiota of <i>Ixodes</i> Ticks with Regard to Geography, Species, and Sex. <i>Applied and Environmental Microbiology</i> , 2015, 81, 6200-6209.	1.4	167
4	Tick repellents: Past, present, and future. <i>Pesticide Biochemistry and Physiology</i> , 2010, 96, 63-79.	1.6	158
5	Sequence and the developmental and tissue-specific regulation of the first complete vitellogenin messenger RNA from ticks responsible for heme sequestration. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 363-374.	1.2	84
6	Diversity of Rickettsiales in the Microbiome of the Lone Star Tick, <i>Amblyomma americanum</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 354-359.	1.4	82
7	Molecular characterization, tissue-specific expression and RNAi knockdown of the first vitellogenin receptor from a tick. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 375-388.	1.2	61
8	The movement of proteins across the insect and tick digestive system. <i>Journal of Insect Physiology</i> , 2008, 54, 319-332.	0.9	60
9	Full-length sequence, regulation and developmental studies of a second vitellogenin gene from the American dog tick, <i>Dermacentor variabilis</i> . <i>Journal of Insect Physiology</i> , 2011, 57, 400-408.	0.9	56
10	First Transcriptome of the Testis-Vas Deferens-Male Accessory Gland and Proteome of the Spermatophore from <i>Dermacentor variabilis</i> (Acari: Ixodidae). <i>PLoS ONE</i> , 2011, 6, e24711.	1.1	55
11	Heme-binding storage proteins in the Chelicerata. <i>Journal of Insect Physiology</i> , 2009, 55, 287-296.	0.9	54
12	Transcriptome of the Female Synganglion of the Black-Legged Tick <i>Ixodes scapularis</i> (Acari: Ixodidae) with Comparison between Illumina and 454 Systems. <i>PLoS ONE</i> , 2014, 9, e102667.	1.1	51
13	Tick Haller's Organ, a New Paradigm for Arthropod Olfaction: How Ticks Differ from Insects. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1563.	1.8	49
14	In vivo role of 20-hydroxyecdysone in the regulation of the vitellogenin mRNA and egg development in the American dog tick, <i>Dermacentor variabilis</i> (Say). <i>Journal of Insect Physiology</i> , 2005, 51, 1105-1116.	0.9	48
15	Neuropeptide signaling sequences identified by pyrosequencing of the American dog tick synganglion transcriptome during blood feeding and reproduction. <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 79-90.	1.2	47
16	Tick Genome Assembled: New Opportunities for Research on Tick-Host-Pathogen Interactions. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 103.	1.8	38
17	Juvenile hormone metabolism in the plasma, integument, midgut, fat body, and brain during the last instar of the tobacco hornworm, <i>Manduca sexta</i> (L.). <i>Archives of Insect Biochemistry and Physiology</i> , 1992, 20, 87-105.	0.6	36
18	Genetic Variation in the <i>Myzus persicae</i> Complex (Homoptera: Aphididae): Evidence for a Single Species. <i>Annals of the Entomological Society of America</i> , 2000, 93, 31-46.	1.3	36

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19	Molecular characterization of the major hemelipoglycoprotein in ixodid ticks. <i>Insect Molecular Biology</i> , 2008, 17, 197-208.	1.0	36
20	Characterization and the developmental role of plasma juvenile hormone esterase in the adult cabbage looper, <i>Trichoplusia ni</i> . <i>Insect Biochemistry</i> , 1988, 18, 53-61.	1.8	35
21	Advancing Integrated Tick Management to Mitigate Burden of Tick-Borne Diseases. <i>Outlooks on Pest Management</i> , 2014, 25, 382-389.	0.1	35
22	Comparative Efficacy of BioUD to Other Commercially Available Arthropod Repellents against the Ticks <i>Amblyomma americanum</i> and <i>Dermacentor variabilis</i> on Cotton Cloth. <i>American Journal of Tropical Medicine and Hygiene</i> , 2009, 81, 685-690.	0.6	33
23	Infrared light detection by the hallerâ€™s organ of adult american dog ticks, <i>Dermacentor variabilis</i> (Ixodida: Ixodidae). <i>Ticks and Tick-borne Diseases</i> , 2017, 8, 764-771.	1.1	33
24	Regulation of JH epoxide hydrolase versus JH esterase activity in the cabbage looper, <i>Trichoplusia ni</i> , by juvenile hormone and xenobiotics. <i>Journal of Insect Physiology</i> , 2005, 51, 523-535.	0.9	32
25	Regulation of female reproduction in mites: A unifying model for the Acari. <i>Journal of Insect Physiology</i> , 2009, 55, 1079-1090.	0.9	32
26	Determination of the regiochemistry of insect epoxide hydrolase catalyzed epoxide hydration of juvenile hormone by 18O-labeling studies. <i>Tetrahedron</i> , 1995, 51, 10845-10856.	1.0	29
27	Genetic, biochemical, and behavioral uniformity among populations of <i>Myzus nicotianae</i> and <i>Myzus persicae</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2000, 95, 269-281.	0.7	28
28	Developmental Role of Juvenile Hormone Metabolism in Lepidoptera. <i>American Zoologist</i> , 1993, 33, 375-383.	0.7	25
29	Species Diagnosis and Resistance Monitoring of <i>Bacillus thuringiensis</i> , <i>Heliothis virescens</i> , and <i>Helicoverpa zea</i> (Lepidoptera: Noctuidae) Field Strains from the Southern United States Using Feeding Disruption Bioassays. <i>Journal of Economic Entomology</i> , 2001, 94, 76-85.	0.8	24
30	Hormonal regulation of metamorphosis and reproduction in ticks. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 7250.	3.0	24
31	Juvenile hormone metabolism during embryogenesis in the tobacco hornworm, <i>Manduca sexta</i> (L.). <i>Archives of Insect Biochemistry and Physiology</i> , 1988, 8, 173-186.	0.6	23
32	A novel geminal diol as a highly specific and stable in vivo inhibitor of insect juvenile hormone esterase. <i>Archives of Insect Biochemistry and Physiology</i> , 1997, 36, 165-179.	0.6	22
33	Biology, Pest Status, Microbiome and Control of Kudzu Bug (Hemiptera: Heteroptera: Plataspidae): A New Invasive Pest in the U.S.. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1570.	1.8	22
34	Juvenile Hormone Metabolism During Adult Development of <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Journal of Insect Physiology</i> , 2019, 110, 103-111.	0.9	21
35	Exogenous and endogenous microbiomes of wild-caught <i>Phormia regina</i> (Diptera: Calliphoridae) flies from a suburban farm by 16S rRNA gene sequencing. <i>Scientific Reports</i> , 2019, 9, 20365.	1.6	21
36	Role of juvenile hormone esterase and epoxide hydrolase in reproduction of the cotton bollworm, <i>Helicoverpa zea</i> . <i>Journal of Insect Physiology</i> , 2006, 52, 669-678.	0.9	20

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37	Rational design and synthesis of polarized ketones as inhibitors of juvenile hormone esterase: importance of juvenile hormone mimicry. <i>Journal of Agricultural and Food Chemistry</i> , 1990, 38, 1274-1278.	2.4	19
38	In vivo and in vitro-tissue specific metabolism of juvenile hormone during the last stadium of the cabbage looper, <i>Trichoplusia ni</i> . <i>Journal of Insect Physiology</i> , 1996, 42, 181-190.	0.9	19
39	New approach for the study of mite reproduction: The first transcriptome analysis of a mite, <i>Phytoseiulus persimilis</i> (Acari: Phytoseiidae). <i>Journal of Insect Physiology</i> , 2011, 57, 52-61.	0.9	19
40	Mevalonate-Farnesal Biosynthesis in Ticks: Comparative Synganglion Transcriptomics and a New Perspective. <i>PLoS ONE</i> , 2016, 11, e0141084.	1.1	19
41	Novel use of aliphatic α -methyl ketones as a fumigant and alternative to methyl bromide for insect control. <i>Pest Management Science</i> , 2018, 74, 648-657.	1.7	17
42	Mechanism of action and cloning of epoxide hydrolase from the cabbage looper, <i>Trichoplusia ni</i> . , 1996, 32, 527-535.		16
43	Novel insecticide polymer chemistry to reduce the enzymatic digestion of a protein pesticide, trypsin modulating oostatic factor (TMOF). <i>Pesticide Biochemistry and Physiology</i> , 2009, 93, 144-152.	1.6	16
44	Male engorgement factor: Role in stimulating engorgement to repletion in the ixodid tick, <i>Dermacentor variabilis</i> . <i>Journal of Insect Physiology</i> , 2009, 55, 909-918.	0.9	16
45	Bacterial microbiome of the chigger mite <i>Leptotrombidium imphalum</i> varies by life stage and infection with the scrub typhus pathogen <i>Orientia tsutsugamushi</i> . <i>PLoS ONE</i> , 2018, 13, e0208327.	1.1	16
46	Characterization of vitellin protein in the twospotted spider mite, <i>Tetranychus urticae</i> (Acari: Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 382	0.9	14
47	Differential Expression Profile of lncRNAs from Primary Human Hepatocytes Following DEET and Fipronil Exposure. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2104.	1.8	14
48	Multiple Known Mechanisms and a Possible Role of an Enhanced Immune System in Bt-Resistance in a Field Population of the Bollworm, <i>Helicoverpa zea</i> : Differences in Gene Expression with RNAseq. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6528.	1.8	14
49	Movement of proteins across the digestive system of the tobacco budworm, <i>Heliothis virescens</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2005, 117, 135-146.	0.7	13
50	Organic synthesis and bioassay of novel inhibitors of JH III epoxide hydrolase activity from fifth stadium cabbage loopers, <i>Trichoplusia ni</i> . <i>Pesticide Biochemistry and Physiology</i> , 2005, 83, 140-154.	1.6	12
51	Characterization of the Juvenile Hormone Esterases During Embryogenesis of the House Cricket, <i>Acheta domesticus</i> . <i>International Journal of Invertebrate Reproduction and Development</i> , 1987, 12, 57-71.	0.8	11
52	Pyrosequencing of the adult tarnished plant bug, <i>Lygus lineolaris</i> , and characterization of messages important in metabolism and development. <i>Entomologia Experimentalis Et Applicata</i> , 2013, 146, 364-378.	0.7	11
53	Evidence of female sex pheromones and characterization of the cuticular lipids of unfed, adult male versus female blacklegged ticks, <i>Ixodes scapularis</i> . <i>Experimental and Applied Acarology</i> , 2016, 68, 519-538.	0.7	11
54	Bacterial Microbiota of Field-Collected <i>Helicoverpa zea</i> (Lepidoptera: Noctuidae) from Transgenic Bt and Non-Bt Cotton. <i>Microorganisms</i> , 2021, 9, 878.	1.6	10

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55	Mosquito-Textile Physics: A Mathematical Roadmap to Insecticide-Free, Bite-Proof Clothing for Everyday Life. <i>Insects</i> , 2021, 12, 636.	1.0	10
56	Impact of Environmental Chemicals on the Transcriptome of Primary Human Hepatocytes: Potential for Health Effects. <i>Journal of Biochemical and Molecular Toxicology</i> , 2016, 30, 375-395.	1.4	9
57	Enhanced activity of an insecticidal protein, trypsin modulating oostatic factor (TMOF), through conjugation with aliphatic polyethylene glycol. <i>Pest Management Science</i> , 2012, 68, 49-59.	1.7	8
58	Characterization of Long Non-Coding RNAs in the Bollworm, <i>Helicoverpa zea</i> , and Their Possible Role in Cry1Ac-Resistance. <i>Insects</i> , 2022, 13, 12.	1.0	8
59	Development of a rapid resistance monitoring bioassay for codling moth larvae. <i>Pest Management Science</i> , 2012, 68, 883-888.	1.7	7
60	Non-target toxicology of a new mosquito larvicide, trypsin modulating oostatic factor. <i>Pesticide Biochemistry and Physiology</i> , 2004, 80, 131-142.	1.6	6
61	Insecticidal activity and mode of action of novel nicotinoids synthesized by new acylpyridinium salt chemistry and directed lithiation. <i>Pesticide Biochemistry and Physiology</i> , 2007, 87, 211-219.	1.6	6
62	Novel adult feeding disruption test (FDT) to detect insecticide resistance of lepidopteran pests in cotton. <i>Pest Management Science</i> , 2013, 69, 652-660.	1.7	6
63	Control of Filth Flies, <i>Cochliomyia macellaria</i> (Diptera: Calliphoridae), <i>Musca domestica</i> (Diptera: Tj ETQq1 1 0.784314 rgBT /Overl Ketones. <i>Journal of Medical Entomology</i> , 2019, 56, 1704-1714.	0.9	6
64	Development of an Insecticide-Free Trapping Bednet to Control Mosquitoes and Manage Resistance in Malaria Vector Control: A New Way of Thinking. <i>Insects</i> , 2020, 11, 732.	1.0	6
65	<i>Rickettsia felis</i> and Other <i>Rickettsia</i> Species in Chigger Mites Collected from Wild Rodents in North Carolina, USA. <i>Microorganisms</i> , 2022, 10, 1342.	1.6	6
66	Imergard TM WP: A Non-Chemical Alternative for an Indoor Residual Spray, Effective against Pyrethroid-Resistant <i>Anopheles gambiae</i> (s.l.) in Africa. <i>Insects</i> , 2020, 11, 322.	1.0	5
67	Role of long non-coding RNA in DEET- and fipronil-mediated alteration of transcripts associated with Phase I and Phase II xenobiotic metabolism in human primary hepatocytes. <i>Pesticide Biochemistry and Physiology</i> , 2020, 167, 104607.	1.6	5
68	Resistance monitoring of <i>Heliothis virescens</i> to pyramided cotton varieties with a hydrateable, artificial cotton leaf bioassay. <i>Crop Protection</i> , 2011, 30, 1196-1201.	1.0	4
69	Systemic Imidacloprid Affects Intraguild Parasitoids Differently. <i>PLoS ONE</i> , 2015, 10, e0144598.	1.1	4
70	Assays for the Classification of Two Types of Esterases: Carboxylic Ester Hydrolases and Phosphoric Triester Hydrolases. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2002, 13, Unit4.10.	1.1	3
71	Toxicity of novel aromatic and aliphatic organic acid and ester analogs of trypsin modulating oostatic factor to larvae of the northern house mosquito, <i>Culex pipiens</i> complex, and the tobacco hornworm, <i>Manduca sexta</i> . <i>Pesticide Biochemistry and Physiology</i> , 2005, 81, 71-84.	1.6	3
72	Polymers for the stabilization and delivery of proteins topically and per os to the insect hemocoel through conjugation with aliphatic polyethylene glycol. <i>Pesticide Biochemistry and Physiology</i> , 2014, 115, 58-66.	1.6	3

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73	Effects of Temperature and Molecular Oxygen on the Use of Atmospheric Pressure Plasma as a Novel Method for Insect Control. <i>Journal of Economic Entomology</i> , 2008, 101, 302-308.	0.8	3
74	Bioassay of Anti Juvenile Hormone Compounds: An Alternative Approach. <i>ACS Symposium Series</i> , 1985, , 293-306.	0.5	2
75	Purification and characterization of a phosphoric triester hydrolase from the tufted apple bud moth, <i>Platynota idaeusalis</i> (Walker). <i>Journal of Biochemical and Molecular Toxicology</i> , 2001, 15, 55-65.	1.4	2
76	New Mosquitocide Derived From Volcanic Rock. <i>Journal of Medical Entomology</i> , 2020, 58, 458-464.	0.9	2
77	Tick Ecdysteroid Hormone, Global Microbiota/Rickettsia Signaling in the Ovary versus Carcass during Vitellogenesis in Part-Fed (Virgin) American Dog Ticks, <i>Dermacentor variabilis</i> . <i>Microorganisms</i> , 2021, 9, 1242.	1.6	2
78	Mode of Action of a Novel Nonchemical Method of Insect Control: Atmospheric Pressure Plasma Discharge. <i>Journal of Economic Entomology</i> , 2006, 99, 38-47.	0.8	2
79	Polarized Ketone Inhibition of 1-Naphthyl Acetate Esterase in Azinphosmethyl-Resistant and -Susceptible Tufted Apple Bud Moths, <i>Platynota idaeusalis</i> (Walker): Novel Insecticide Synergists. <i>Pesticide Biochemistry and Physiology</i> , 2001, 69, 48-62.	1.6	1
80	Novel 3-D Spacer Textiles to Protect Crops from Insect Infestation and That Enhance Plant Growth. <i>Agriculture (Switzerland)</i> , 2022, 12, 498.	1.4	1