Richard Roe

List of Publications by Year
in descending order

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	Novel 3-D Spacer Textiles to Protect Crops from Insect Infestation and That Enhance Plant Growth. Agriculture (Switzerland), 2022, 12, 498.	1.4	1
2	Characterization of Long Non-Coding RNAs in the Bollworm, Helicoverpa zea, and Their Possible Role in Cry1Ac-Resistance. Insects, 2022, 13, 12.	1.0	8
3	Rickettsia felis and Other Rickettsia Species in Chigger Mites Collected from Wild Rodents in North Carolina, USA. Microorganisms, 2022, 10, 1342.	1.6	6
4	Bacterial Microbiota of Field-Collected Helicoverpa zea (Lepidoptera: Noctuidae) from Transgenic Bt and Non-Bt Cotton. Microorganisms, 2021, 9, 878.	1.6	10
5	Tick Ecdysteroid Hormone, Global Microbiota/Rickettsia Signaling in the Ovary versus Carcass during Vitellogenesis in Part-Fed (Virgin) American Dog Ticks, Dermacentor variabilis. Microorganisms, 2021, 9, 1242.	1.6	2
6	Mosquito-Textile Physics: A Mathematical Roadmap to Insecticide-Free, Bite-Proof Clothing for Everyday Life. Insects, 2021, 12, 636.	1.0	10
7	New Mosquitocide Derived From Volcanic Rock. Journal of Medical Entomology, 2020, 58, 458-464.	0.9	2
8	Multiple Known Mechanisms and a Possible Role of an Enhanced Immune System in Bt-Resistance in a Field Population of the Bollworm, Helicoverpa zea: Differences in Gene Expression with RNAseq. International Journal of Molecular Sciences, 2020, 21, 6528.	1.8	14
9	Development of an Insecticide-Free Trapping Bednet to Control Mosquitoes and Manage Resistance in Malaria Vector Control: A New Way of Thinking. Insects, 2020, 11, 732.	1.0	6
10	ImergardTMWP: A Non-Chemical Alternative for an Indoor Residual Spray, Effective against Pyrethroid-Resistant Anopheles gambiae (s.l.) in Africa. Insects, 2020, 11, 322.	1.0	5
11	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. Pesticide Biochemistry and Physiology, 2020, 167, 104607.	1.6	5
12	Control of Filth Flies, Cochliomyia macellaria (Diptera: Calliphoridae), Musca domestica (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Ketones. Journal of Medical Entomology, 2019, 56, 1704-1714.	0.9	6
13	Exogenous and endogenous microbiomes of wild-caught Phormia regina (Diptera: Calliphoridae) flies from a suburban farm by 16S rRNA gene sequencing. Scientific Reports, 2019, 9, 20365.	1.6	21
14	Novel use of aliphatic nâ€methyl ketones as a fumigant and alternative to methyl bromide for insect control. Pest Management Science, 2018, 74, 648-657.	1.7	17
15	Bacterial microbiome of the chigger mite Leptotrombidium imphalum varies by life stage and infection with the scrub typhus pathogen Orientia tsutsugamushi. PLoS ONE, 2018, 13, e0208327.	1.1	16
16	Infrared light detection by the hallerâ€™s organ of adult american dog ticks, Dermacentor variabilis (Ixodida: Ixodidae). Ticks and Tick-borne Diseases, 2017, 8, 764-771.	1.1	33
17	Differential Expression Profile of lncRNAs from Primary Human Hepatocytes Following DEET and Fipronil Exposure. International Journal of Molecular Sciences, 2017, 18, 2104.	1.8	14
18	Tick Hallerâ€™s Organ, a New Paradigm for Arthropod Olfaction: How Ticks Differ from Insects. International Journal of Molecular Sciences, 2017, 18, 1563.	1.8	49

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19	Tick Genome Assembled: New Opportunities for Research on Tick-Host-Pathogen Interactions. Frontiers in Cellular and Infection Microbiology, 2016, 6, 103.	1.8	38
20	Biology, Pest Status, Microbiome and Control of Kudzu Bug (Hemiptera: Heteroptera: Plataspidae): A New Invasive Pest in the U.S.. International Journal of Molecular Sciences, 2016, 17, 1570.	1.8	22
21	Mevalonate-Farnesal Biosynthesis in Ticks: Comparative Synganglion Transcriptomics and a New Perspective. PLoS ONE, 2016, 11, e0141084.	1.1	19
22	Impact of Environmental Chemicals on the Transcriptome of Primary Human Hepatocytes: Potential for Health Effects. Journal of Biochemical and Molecular Toxicology, 2016, 30, 375-395.	1.4	9
23	Evidence of female sex pheromones and characterization of the cuticular lipids of unfed, adult male versus female blacklegged ticks, Ixodes scapularis. Experimental and Applied Acarology, 2016, 68, 519-538.	0.7	11
24	Genomic insights into the Ixodes scapularis tick vector of Lyme disease. Nature Communications, 2016, 7, 10507.	5.8	450
25	Variation in the Microbiota of Ixodes Ticks with Regard to Geography, Species, and Sex. Applied and Environmental Microbiology, 2015, 81, 6200-6209.	1.4	167
26	Systemic Imidacloprid Affects Intraguild Parasitoids Differently. PLoS ONE, 2015, 10, e0144598.	1.1	4
27	Transcriptome of the Female Synganglion of the Black-Legged Tick Ixodes scapularis (Acari: Ixodidae) with Comparison between Illumina and 454 Systems. PLoS ONE, 2014, 9, e102667.	1.1	51
28	Diversity of Rickettsiales in the Microbiome of the Lone Star Tick, Amblyomma americanum. Applied and Environmental Microbiology, 2014, 80, 354-359.	1.4	82
29	Polymers for the stabilization and delivery of proteins topically and per os to the insect hemocoel through conjugation with aliphatic polyethylene glycol. Pesticide Biochemistry and Physiology, 2014, 115, 58-66.	1.6	3
30	Molecular traces of alternative social organization in a termite genome. Nature Communications, 2014, 5, 3636.	5.8	371
31	Advancing Integrated Tick Management to Mitigate Burden of Tick-Borne Diseases. Outlooks on Pest Management, 2014, 25, 382-389.	0.1	35
32	Pyrosequencing of the adult tarnished plant bug, <scp>L</scp>ygus lineolaris, and characterization of messages important in metabolism and development. Entomologia Experimentalis Et Applicata, 2013, 146, 364-378.	0.7	11
33	Novel adult feeding disruption test (FDT) to detect insecticide resistance of lepidopteran pests in cotton. Pest Management Science, 2013, 69, 652-660.	1.7	6
34	Enhanced activity of an insecticidal protein, trypsin modulating oostatic factor (TMOF), through conjugation with aliphatic polyethylene glycol. Pest Management Science, 2012, 68, 49-59.	1.7	8
35	Development of a rapid resistance monitoring bioassay for codling moth larvae. Pest Management Science, 2012, 68, 883-888.	1.7	7
36	New approach for the study of mite reproduction: The first transcriptome analysis of a mite, Phytoseiulus persimilis (Acari: Phytoseiidae). Journal of Insect Physiology, 2011, 57, 52-61.	0.9	19

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37	Full-length sequence, regulation and developmental studies of a second vitellogenin gene from the American dog tick, Dermacentor variabilis. Journal of Insect Physiology, 2011, 57, 400-408.	0.9	56
38	Resistance monitoring of Heliothis virescens to pyramided cotton varieties with a hydrateable, artificial cotton leaf bioassay. Crop Protection, 2011, 30, 1196-1201.	1.0	4
39	First Transcriptome of the Testis-Vas Deferens-Male Accessory Gland and Proteome of the Spermatophore from Dermacentor variabilis (Acari: Ixodidae). PLoS ONE, 2011, 6, e24711.	1.1	55
40	Tick repellents: Past, present, and future. Pesticide Biochemistry and Physiology, 2010, 96, 63-79.	1.6	158
41	Neuropeptide signaling sequences identified by pyrosequencing of the American dog tick synganglion transcriptome during blood feeding and reproduction. Insect Biochemistry and Molecular Biology, 2010, 40, 79-90.	1.2	47
42	Comparative Efficacy of BioUD to Other Commercially Available Arthropod Repellents against the Ticks Amblyomma americanum and Dermacentor variabilis on Cotton Cloth. American Journal of Tropical Medicine and Hygiene, 2009, 81, 685-690.	0.6	33
43	Novel insecticide polymer chemistry to reduce the enzymatic digestion of a protein pesticide, trypsin modulating oostatic factor (TMOF). Pesticide Biochemistry and Physiology, 2009, 93, 144-152.	1.6	16
44	Heme-binding storage proteins in the Chelicerata. Journal of Insect Physiology, 2009, 55, 287-296.	0.9	54
45	Characterization of vitellin protein in the twospotted spider mite, Tetranychus urticae (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	14
46	Male engorgement factor: Role in stimulating engorgement to repletion in the ixodid tick, Dermacentor variabilis. Journal of Insect Physiology, 2009, 55, 909-918.	0.9	16
47	Regulation of female reproduction in mites: A unifying model for the Acari. Journal of Insect Physiology, 2009, 55, 1079-1090.	0.9	32
48	Molecular characterization of the major hemelipoglycoprotein in ixodid ticks. Insect Molecular Biology, 2008, 17, 197-208.	1.0	36
49	The movement of proteins across the insect and tick digestive system. Journal of Insect Physiology, 2008, 54, 319-332.	0.9	60
50	Hormonal regulation of metamorphosis and reproduction in ticks. Frontiers in Bioscience - Landmark, 2008, Volume, 7250.	3.0	24
51	Effects of Temperature and Molecular Oxygen on the Use of Atmospheric Pressure Plasma as a Novel Method for Insect Control. Journal of Economic Entomology, 2008, 101, 302-308.	0.8	3
52	Sequence and the developmental and tissue-specific regulation of the first complete vitellogenin messenger RNA from ticks responsible for heme sequestration. Insect Biochemistry and Molecular Biology, 2007, 37, 363-374.	1.2	84
53	Molecular characterization, tissue-specific expression and RNAi knockdown of the first vitellogenin receptor from a tick. Insect Biochemistry and Molecular Biology, 2007, 37, 375-388.	1.2	61
54	Insecticidal activity and mode of action of novel nicotinoids synthesized by new acylpyridinium salt chemistry and directed lithiation. Pesticide Biochemistry and Physiology, 2007, 87, 211-219.	1.6	6

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55	Role of juvenile hormone esterase and epoxide hydrolase in reproduction of the cotton bollworm, Helicoverpa zea. Journal of Insect Physiology, 2006, 52, 669-678.	0.9	20
56	Mode of Action of a Novel Nonchemical Method of Insect Control: Atmospheric Pressure Plasma Discharge. Journal of Economic Entomology, 2006, 99, 38-47.	0.8	2
57	Movement of proteins across the digestive system of the tobacco budworm, Heliothis virescens. Entomologia Experimentalis Et Applicata, 2005, 117, 135-146.	0.7	13
58	Regulation of JH epoxide hydrolase versus JH esterase activity in the cabbage looper, Trichoplusia ni, by juvenile hormone and xenobiotics. Journal of Insect Physiology, 2005, 51, 523-535.	0.9	32
59	In vivo role of 20-hydroxyecdysone in the regulation of the vitellogenin mRNA and egg development in the American dog tick, Dermacentor variabilis (Say). Journal of Insect Physiology, 2005, 51, 1105-1116.	0.9	48
60	Toxicity of novel aromatic and aliphatic organic acid and ester analogs of trypsin modulating oostatic factor to larvae of the northern house mosquito, Culex pipiens complex, and the tobacco hornworm, Manduca sexta. Pesticide Biochemistry and Physiology, 2005, 81, 71-84.	1.6	3
61	Organic synthesis and bioassay of novel inhibitors of JH III epoxide hydrolase activity from fifth stadium cabbage loopers, Trichoplusia ni. Pesticide Biochemistry and Physiology, 2005, 83, 140-154.	1.6	12
62	Non-target toxicology of a new mosquito larvicide, trypsin modulating oostatic factor. Pesticide Biochemistry and Physiology, 2004, 80, 131-142.	1.6	6
63	Assays for the Classification of Two Types of Esterases: Carboxylic Ester Hydrolases and Phosphoric Triester Hydrolases. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2002, 13, Unit4.10.	1.1	3
64	Purification and characterization of a phosphoric triester hydrolase from the tufted apple bud moth,Platynota idaeusalis (Walker). Journal of Biochemical and Molecular Toxicology, 2001, 15, 55-65.	1.4	2
65	Polarized Ketone Inhibition of 1-Naphthyl Acetate Esterase in Azinphosmethyl-Resistant and -Susceptible Tufted Apple Bud Moths, Platynota idaeusalis (Walker): Novel Insecticide Synergists. Pesticide Biochemistry and Physiology, 2001, 69, 48-62.	1.6	1
66	Species Diagnosis and <I>Bacillus thuringiensis</I> Resistance Monitoring of <I>Heliothis virescens</I> and <I>Helicoverpa zea</I> (Lepidoptera: Noctuidae) Field Strains from the Southern United States Using Feeding Disruption Bioassays. Journal of Economic Entomology, 2001, 94, 76-85.	0.8	24
67	Genetic, biochemical, and behavioral uniformity among populations of Myzus nicotianae and Myzus persicae. Entomologia Experimentalis Et Applicata, 2000, 95, 269-281.	0.7	28
68	Genetic Variation in the <I>Myzus persicae</I> Complex (Homoptera: Aphididae): Evidence for a Single Species. Annals of the Entomological Society of America, 2000, 93, 31-46.	1.3	36
69	A novel geminal diol as a highly specific and stable in vivo inhibitor of insect juvenile hormone esterase. Archives of Insect Biochemistry and Physiology, 1997, 36, 165-179.	0.6	22
70	In vivo and in vitro-tissue specific metabolism of juvenile hormone during the last stadium of the cabbage looper, Trichoplusia ni. Journal of Insect Physiology, 1996, 42, 181-190.	0.9	19
71	Mechanism of action and cloning of epoxide hydrolase from the cabbage looper,Trichoplusia ni. , 1996, 32, 527-535.		16
72	Determination of the regiochemistry of insect epoxide hydrolase catalyzed epoxide hydration of juvenile hormone by 18O-labeling studies. Tetrahedron, 1995, 51, 10845-10856.	1.0	29

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73	Juvenile Hormone Metabolism During Adult Development of Culex quinquefasciatus (Diptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.9	21
74	Developmental Role of Juvenile Hormone Metabolism in Lepidoptera. American Zoologist, 1993, 33, 375-383.	0.7	25
75	Juvenile hormone metabolism in the plasma, integument, midgut, fat body, and brain during the last instar of the tobacco hornworm,Manduca sexta (L.). Archives of Insect Biochemistry and Physiology, 1992, 20, 87-105.	0.6	36
76	Rational design and synthesis of polarized ketones as inhibitors of juvenile hormone esterase: importance of juvenile hormone mimicry. Journal of Agricultural and Food Chemistry, 1990, 38, 1274-1278.	2.4	19
77	Juvenile hormone metabolism during embryogenesis in the tobacco hornworm,Manduca sexta (L.). Archives of Insect Biochemistry and Physiology, 1988, 8, 173-186.	0.6	23
78	Characterization and the developmental role of plasma juvenile hormone esterase in the adult cabbage looper, Trichoplusia ni. Insect Biochemistry, 1988, 18, 53-61.	1.8	35
79	Characterization of the Juvenile Hormone Esterases During Embryogenesis of the House Cricket,Acheta domesticus. International Journal of Invertebrate Reproduction and Development, 1987, 12, 57-71.	0.8	11
80	Bioassay of Anti Juvenile Hormone Compounds: An Alternative Approach. ACS Symposium Series, 1985, , 293-306.	0.5	2