

Colm Carraher

List of Publications by Year in descending order

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28
papers

1,075
citations

516215

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500791

28
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all docs

28
docs citations

28
times ranked

1156
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional incorporation of the insect odorant receptor coreceptor in tethered lipid bilayer nanoarchitectures. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114024.	5.3	3
2	Insect odorant receptor nanodiscs for sensitive and specific electrochemical detection of odorant compounds. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129243.	4.0	7
3	Insect odorant receptor-based biosensors: Current status and prospects. <i>Biotechnology Advances</i> , 2021, 53, 107840.	6.0	19
4	Crystal structure of <i>Epiphyas postvittana</i> pheromone binding protein 3. <i>Scientific Reports</i> , 2020, 10, 16366.	1.6	4
5	Evaluating Insect Odorant Receptor Display Formats for Biosensing Using Graphene Field Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3610-3617.	2.0	18
6	Synergistic improvement in the performance of insect odorant receptor based biosensors in the presence of Orco. <i>Biosensors and Bioelectronics</i> , 2020, 153, 112040.	5.3	20
7	Investigating Electrochemical Stability and Reliability of Gold Electrode/Electrolyte Systems to Develop Bioelectronic Nose Using Insect Olfactory Receptor. <i>Electroanalysis</i> , 2019, 31, 726-738.	1.5	13
8	Biosensing with Insect Odorant Receptor Nanodiscs and Carbon Nanotube Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9530-9538.	4.0	62
9	Metallic-semiconducting junctions create sensing hot-spots in carbon nanotube FET aptasensors near percolation. <i>Biosensors and Bioelectronics</i> , 2019, 130, 408-413.	5.3	24
10	An ultrasensitive electrochemical impedance-based biosensor using insect odorant receptors to detect odorants. <i>Biosensors and Bioelectronics</i> , 2019, 126, 207-213.	5.3	60
11	Data on preparation and characterization of an insect odorant receptor based biosensor. <i>Data in Brief</i> , 2018, 21, 2142-2148.	0.5	6
12	Data on liquid gated CNT network FETs on flexible substrates. <i>Data in Brief</i> , 2018, 21, 276-283.	0.5	8
13	Sequence variation determining stereochemistry of a Δ^{11} desaturase active in moth sex pheromone biosynthesis. <i>Insect Biochemistry and Molecular Biology</i> , 2016, 74, 68-75.	1.2	22
14	Towards an understanding of the structural basis for insect olfaction by odorant receptors. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 66, 31-41.	1.2	69
15	A novel method to study insect olfactory receptor function using HEK293 cells. <i>Insect Biochemistry and Molecular Biology</i> , 2014, 54, 22-32.	1.2	50
16	Insights into subunit interactions within the insect olfactory receptor complex using FRET. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 138-145.	1.2	61
17	Recombinant expression, detergent solubilisation and purification of insect odorant receptor subunits. <i>Protein Expression and Purification</i> , 2013, 90, 160-169.	0.6	31
18	Low Diversity in the Mitogenome of Sperm Whales Revealed by Next-Generation Sequencing. <i>Genome Biology and Evolution</i> , 2013, 5, 113-129.	1.1	37

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19	Sex Pheromone Evolution Is Associated with Differential Regulation of the Same Desaturase Gene in Two Genera of Leafroller Moths. <i>PLoS Genetics</i> , 2012, 8, e1002489.	1.5	55
20	Sequence Comparisons of Odorant Receptors among Tortricid Moths Reveal Different Rates of Molecular Evolution among Family Members. <i>PLoS ONE</i> , 2012, 7, e38391.	1.1	13
21	A PCR-directed cell-free approach to optimize protein expression using diverse fusion tags. <i>Protein Expression and Purification</i> , 2011, 80, 117-124.	0.6	12
22	Patterns of Mitochondrial Haplotype Diversity in the Invasive Pest <i>Epiphyas postvittana</i> (Lepidoptera: Tortricidae) in New Zealand. <i>Journal of Heredity</i> , 2010, 101, 1944-1949.	0.8	18
23	Mitochondrial DNA analysis reveals genetic structure in two New Zealand Cook's petrel (<i>Pterodroma cooki</i>) populations. <i>Journal of Heredity</i> , 2010, 101, 1944-1949.	0.8	18
24	Odorant Receptors from the Light brown Apple Moth (<i>Epiphyas postvittana</i>) Recognize Important Volatile Compounds Produced by Plants. <i>Chemical Senses</i> , 2009, 34, 383-394.	1.1	104
25	Cell-free synthesis and combinatorial selective ¹⁵ N-labeling of the cytotoxic protein amoebapore A from <i>Entamoeba histolytica</i> . <i>Protein Expression and Purification</i> , 2009, 68, 22-27.	0.6	18
26	DNA Diagnostics of Three Armored Scale Species on Kiwifruit in New Zealand. <i>Journal of Economic Entomology</i> , 2008, 101, 1944-1949.	0.8	17
27	<i>Drosophila</i> odorant receptors are novel seven transmembrane domain proteins that can signal independently of heterotrimeric G proteins. <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 770-780.	1.2	262
28	Estimating the number of whales entering trade using DNA profiling and capture-recapture analysis of market products. <i>Molecular Ecology</i> , 2007, 16, 2617-2626.	2.0	55