Raul A Laumann

List of Publications by Year
in descending order

104	2,394	201674 27	276875 41
papers	citations	h-index	g-index

107	107	107	1682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Volatiles Mediating a Plant-Herbivore-Natural Enemy Interaction in Resistant and Susceptible Soybean Cultivars. Journal of Chemical Ecology, 2011, 37, 273-285.	1.8	92
2	Induced volatiles in soybean and pigeon pea plants artificially infested with the neotropical brown stink bug,Euschistus heros, and their effect on the egg parasitoid,Telenomus podisi. Entomologia Experimentalis Et Applicata, 2005, 115, 227-237.	1.4	91
3	The chemical volatiles (Semiochemicals) produced by neotropical stink bugs (Hemiptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.2	81
4	Attraction of the stink bug egg parasitoid TelenomusÂpodisi to defence signals from soybean activated by treatment with cisâ€jasmone. Entomologia Experimentalis Et Applicata, 2009, 131, 178-188.	1.4	78
5	Eavesdropping on sexual vibratory signals of stink bugs (Hemiptera: Pentatomidae) by the egg parasitoid Telenomus podisi. Animal Behaviour, 2007, 73, 637-649.	1.9	71
6	Vibratory signals of four Neotropical stink bug species. Physiological Entomology, 2005, 30, 175-188.	1.5	67
7	Odour masking of tomato volatiles by coriander volatiles in host plant selection of Bemisia tabaci biotype B. Entomologia Experimentalis Et Applicata, 2010, 136, 164-173.	1.4	60
8	Biological control of invasive stink bugs: review of global state and future prospects. Entomologia Experimentalis Et Applicata, 2021, 169, 28-51.	1.4	60
9	Euschistus heros mass rearing technique for the multiplication of Telenomus podisi. Pesquisa Agropecuaria Brasileira, 2008, 43, 575-580.	0.9	57
10	Response of the Egg Parasitoids Trissolcus basalis and Telenomus podisi to Compounds from Defensive Secretions of Stink Bugs. Journal of Chemical Ecology, 2009, 35, 8-19.	1.8	56
11	Monitoring the Neotropical brown stink bug Euschistus heros (F.) (Hemiptera: Pentatomidae) with pheromoneâ€baited traps in soybean fields. Journal of Applied Entomology, 2011, 135, 68-80.	1.8	54
12	Inter- and intraspecific variation in defensive compounds produced by five neotropical stink bug species (Hemiptera: Pentatomidae). Journal of Insect Physiology, 2007, 53, 639-648.	2.0	52
13	Semiochemicals from Herbivory Induced Cotton Plants Enhance the Foraging Behavior of the Cotton Boll Weevil, Anthonomus grandis. Journal of Chemical Ecology, 2012, 38, 1528-1538.	1.8	50
14	Response of the parasitoidTelenomus podisito induced volatiles from soybean damaged by stink bug herbivory and oviposition. Journal of Plant Interactions, 2008, 3, 111-118.	2.1	46
15	Sex Attractant Pheromone from the Rice Stalk Stink Bug, Tibraca limbativentris Stal. Journal of Chemical Ecology, 2006, 32, 2749-2761.	1.8	43
16	A Male-produced Sex Pheromone from the Neotropical Redbanded Stink Bug, Piezodorus guildinii (W.). Journal of Chemical Ecology, 2007, 33, 1235-1248.	1.8	42
17	Lethal and sublethal effects of four essential oils on the egg parasitoids Trissolcus basalis. Chemosphere, 2013, 92, 608-615.	8.2	42
18	Isolation of a novel Carica papaya Î±-amylase inhibitor with deleterious activity toward Callosobruchus maculatus. Pesticide Biochemistry and Physiology, 2007, 87, 255-260.	3.6	41

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19	The fungistatic and fungicidal effects of volatiles from metathoracic glands of soybean-attacking stink bugs (Heteroptera: Pentatomidae) on the entomopathogen Beauveria bassiana. Journal of Invertebrate Pathology, 2015, 132, 77-85.	3.2	40
20	Silent singers are not safe: selective response of a parasitoid to substrate-borne vibratory signals of stink bugs. Animal Behaviour, 2011, 82, 1175-1183.	1.9	39
21	Comparative biology and functional response of Trissolcus spp. (Hymenoptera: Scelionidae) and implications for stink bugs (Hemiptera: Pentatomidae) biological control. Biological Control, 2008, 44, 32-41.	3.0	35
22	An integrative multidisciplinary approach to understanding cryptic divergence in Brazilian species of theAnastrepha fraterculuscomplex (Diptera: Tephritidae). Biological Journal of the Linnean Society, 2016, 117, 725-746.	1.6	35
23	Morphology, distribution and abundance of antennal sensilla in three stink bug species (Hemiptera:) Tj ETQq1 1 0.784314 rgBT /Over	2.2	34
24	Sensory response of the egg parasitoid Telenomus podisi to stimuli from the bug Euschistus heros. Pesquisa Agropecuaria Brasileira, 2006, 41, 1093-1098.	0.9	32
25	Attractiveness of Host Plant Volatile Extracts to the Asian Citrus Psyllid, Diaphorina citri, is Reduced by Terpenoids from the Non-Host Cashew. Journal of Chemical Ecology, 2018, 44, 397-405.	1.8	32
26	Current knowledge of the species complex Anastrepha fraterculus (Diptera, Tephritidae) in Brazil. ZooKeys, 2015, 540, 211-237.	1.1	31
27	Sex Attractant Pheromone from the Neotropical Red-Shouldered Stink Bug, Thyanta perditor (F.). Journal of Chemical Ecology, 2005, 31, 1415-1427.	1.8	30
28	Molecular Cloning and Expression of an Î±-Amylase Inhibitor from Rye with Potential for Controlling Insect Pests. Protein Journal, 2005, 24, 113-123.	1.6	28
29	Influence of volatile compounds from herbivoreâ€damaged soybean plants on searching behavior of the egg parasitoid <scp>T</scp>elenomus podisi. Entomologia Experimentalis Et Applicata, 2013, 147, 9-17.	1.4	28
30	Tremulatory and Abdomen Vibration Signals Enable Communication through Air in the Stink Bug Euschistus heros. PLoS ONE, 2013, 8, e56503.	2.5	28
31	cis-Jasmone indirect action on egg parasitoids (Hymenoptera: Scelionidae) and its application in biological control of soybean stink bugs (Hemiptera: Pentatomidae). Biological Control, 2013, 64, 75-82.	3.0	28
32	The influence of volatile semiochemicals from stink bug eggs and oviposition-damaged plants on the foraging behaviour of the egg parasitoidTelenomus podisi. Bulletin of Entomological Research, 2016, 106, 663-671.	1.0	28
33	Screening of entomopathogenic Metarhizium anisopliae isolates and proteomic analysis of secretion synthesized in response to cowpea weevil (Callosobruchus maculatus) exoskeleton. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 142, 365-370.	2.6	27
34	Influence of Two Acyclic Homoterpenes (Tetranorterpenes) on the Foraging Behavior of Anthonomus grandis Boh. Journal of Chemical Ecology, 2016, 42, 305-313.	1.8	27
35	Influence of visual cues on hostâ€searching and learning behaviour of the egg parasitoids <scp>T</scp>elenomus podisi and <scp>T</scp>rissolcus basalis. Entomologia Experimentalis Et Applicata, 2012, 145, 162-174.	1.4	25
36	Combination of the fungus <scp>B</scp>eauveria bassiana and pheromone in an attractâ€andâ€kill strategy against the banana weevil, <scp>C</scp>osmopolites sordidus. Entomologia Experimentalis Et Applicata, 2014, 151, 75-85.	1.4	25

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37	Transcriptome-Based Identification of Highly Similar Odorant-Binding Proteins among Neotropical Stink Bugs and Their Egg Parasitoid. PLoS ONE, 2015, 10, e0132286.	2.5	25
38	Egg parasitoid wasps as natural enemies of the neotropical stink bug Dichelops melacanthus. Pesquisa Agropecuaria Brasileira, 2010, 45, 442-449.	0.9	23
39	Sex Pheromone Communication in Two Sympatric Neotropical Stink Bug Species Chinavia ubica and Chinavia impicticornis. Journal of Chemical Ecology, 2012, 38, 836-845.	1.8	23
40	Screening and secretomic analysis of enthomopatogenic Beauveria bassiana isolates in response to cowpea weevil (Callosobruchus maculatus) exoskeleton. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 145, 333-338.	2.6	22
41	Effect of Bt genetic engineering on indirect defense in cotton via a tritrophic interaction. Transgenic Research, 2011, 20, 99-107.	2.4	22
42	Revisiting the Male-Produced Aggregation Pheromone of the Lesser Mealworm, Alphitobius diaperinus (Coleoptera, Tenebrionidae): Identification of a Six-Component Pheromone from a Brazilian Population. Journal of Agricultural and Food Chemistry, 2016, 64, 6809-6818.	5.2	22
43	Zingiberenol, (1S,4R,1â€²S)-4-(1â€²,5â€²-Dimethylhex-4â€²-enyl)-1-methylcyclohex-2-en-1-ol, Identified as the Sex Pheromone Produced by Males of the Rice Stink Bug Oebalus poecilus (Heteroptera: Pentatomidae). Journal of Agricultural and Food Chemistry, 2013, 61, 7777-7785.	5.2	21
44	Interference of Overlapping Insect Vibratory Communication Signals: An Eushistus heros Model. PLoS ONE, 2015, 10, e0130775.	2.5	21
45	Substrate-borne vibrations disrupt the mating behaviors of the neotropical brown stink bug, Euschistus heros: implications for pest management. Journal of Pest Science, 2018, 91, 995-1004.	3.7	20
46	Effect of resistant and susceptible soybean cultivars on the attraction of egg parasitoids under field conditions. Journal of Applied Entomology, 2015, 139, 207-216.	1.8	19
47	Influence of multiple- and single-species infestations on herbivore-induced cotton volatiles and Anthonomus grandis behaviour. Journal of Pest Science, 2018, 91, 1019-1032.	3.7	19
48	Variability in herbivore-induced defence signalling across different maize genotypes impacts significantly on natural enemy foraging behaviour. Journal of Pest Science, 2019, 92, 723-736.	3.7	19
49	Molecular Identification of Four Different Î±-amylase Inhibitors from Baru (Dipteryx alata) Seeds with Activity Toward Insect Enzymes. BMB Reports, 2007, 40, 494-500.	2.4	19
50	Reproductive behaviour and vibratory communication of the neotropical predatory stink bug Podisus nigrispinus. Physiological Entomology, 2013, 38, 71-80.	1.5	18
51	Herbivory-induced plant volatiles from Oryza sativa and their influence on chemotaxis behaviour of Tibraca limbativentris stal. (Hemiptera: Pentatomidae) and egg parasitoids. Bulletin of Entomological Research, 2014, 104, 347-356.	1.0	18
52	Semiochemicals from plants and insects on the foraging behavior of Platygastridae egg parasitoids. Pesquisa Agropecuaria Brasileira, 2016, 51, 454-464.	0.9	18
53	Food and humidity affect sex pheromone ratios in the stink bug, Euschistus heros. Physiological Entomology, 2008, 33, 43-50.	1.5	17
54	Field evaluation of (E)-2-hexenal efficacy for behavioral manipulation of egg parasitoids in soybean. BioControl, 2014, 59, 525-537.	2.0	17

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55	Anthonomus grandisaggregation pheromone induces cotton indirect defence and attracts the parasitic waspBracon vulgaris. Journal of Experimental Botany, 2019, 70, 1891-1901.	4.8	17
56	Reproductive Biology, Mating Behavior, and Vibratory Communication of the Brown-Winged Stink Bug,Edessa meditabunda(Fabr.) (Heteroptera: Pentatomidae). Psyche: Journal of Entomology, 2012, 2012, 1-9.	0.9	16
57	Vibrational communication and mating behaviour of Dichelops melacanthus (<scp>H</scp>emiptera: <scp>P</scp>entatomidae) recorded from loudspeaker membranes and plants. Physiological Entomology, 2014, 39, 1-11.	1.5	16
58	Identification of Volatile Compounds Involved in Host Location by Anthonomus grandis (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	16
59	Diversity of Stink Bug Adults and Their Parasitoids in Soybean Crops in Brazil: Influence of a Latitudinal Gradient and Insecticide Application Intensity. Environmental Entomology, 2019, 48, 105-113.	1.4	16
60	Development of pull and pushâ€“pull systems for management of lesser mealworm, Alphitobius diaperinus, in poultry houses using alarm and aggregation pheromones. Pest Management Science, 2019, 75, 1107-1114.	3.4	15
61	Chemical Composition ofAlphitobius diaperinus(Coleoptera: Tenebrionidae) Abdominal Glands and the Influence of 1,4-benzoquinones on its Behavior. Journal of Economic Entomology, 2015, 108, 2107-2116.	1.8	14
62	The social wasp Polybia fastidiosuscula Saussure (Hymenoptera: Vespidae) uses herbivoreâ€induced maize plant volatiles to locate its prey. Journal of Applied Entomology, 2017, 141, 620-629.	1.8	14
63	Rivalry between Stink Bug Females in a Vibrational Communication Network. Journal of Insect Behavior, 2017, 30, 741-758.	0.7	13
64	Monitoramento do percevejo marrom Euschistus heros (Hemiptera: Pentatomidae) por feromÃ´nio sexual em lavoura de soja. Pesquisa Agropecuaria Brasileira, 2014, 49, 844-852.	0.9	12
65	Companion and Smart Plants: Scientific Background to Promote Conservation Biological Control. Neotropical Entomology, 2022, 51, 171-187.	1.2	11
66	Trichogramma pretiosum attraction due to the Elasmopalpus lignosellus damage in maize. Pesquisa Agropecuaria Brasileira, 2011, 46, 578-585.	0.9	10
67	Vibratory Communication and its Relevance to Reproductive Isolation in two Sympatric Stink Bug Species (Hemiptera: Pentatomidae: Pentatominae). Journal of Insect Behavior, 2016, 29, 643-665.	0.7	10
68	Male-Produced Sex Pheromone of Tibraca limbativentris Revisited: Absolute Configurations of Zingiberenol Stereoisomers and their Influence on Chemotaxis Behavior of Conspecific Females. Journal of Chemical Ecology, 2020, 46, 1-9.	1.8	10
69	Development of an attract-and-infect device for biological control of lesser mealworm, Alphitobius diaperinus (Coleoptera: Tenebrionidae) in poultry houses. Biological Control, 2020, 149, 104326.	3.0	10
70	Inhibitory Copulation Effect of Vibrational Rival Female Signals of Three Stink Bug Species as a Tool for Mating Disruption. Insects, 2021, 12, 177.	2.2	10
71	Stinkbugs: Multisensory Communication with Chemical and Vibratory Signals Transmitted Through Different Media. Animal Signals and Communication, 2019, , 91-122.	0.8	10
72	Interaction of <scp>A</scp>nthonomus grandis and cotton genotypes: biological and behavioral responses. Entomologia Experimentalis Et Applicata, 2015, 156, 238-253.	1.4	9

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73	Influence of constitutive and induced volatiles from mature green coffee berries on the foraging behaviour of female coffee berry borers, Hypothenemus hampei (Ferrari) (Coleoptera: Curculionidae:) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	9
74	Differential induction of volatiles in rice plants by two stink bug species influence behaviour of conspecifics and their natural enemy Telenomus podisi. Entomologia Experimentalis Et Applicata, 2020, 168, 76-90.	1.4	9
75	Semiochemicals for Integrated Pest Management. , 2019, , 85-112.		8
76	Stink Bug Communication with Multimodal Signals Transmitted through Air and Substrate. Emerging Science Journal, 2019, 3, 407-424.	3.7	8
77	Wing Morphometry and Acoustic Signals in Sterile and Wild Males: Implications for Mating Success inCeratitis capitata. Scientific World Journal, The, 2015, 2015, 1-9.	2.1	7
78	Identification and field evaluation of the sex pheromone of a Brazilian population of Spodoptera cosmioides. Pesquisa Agropecuaria Brasileira, 2016, 51, 545-554.	0.9	7
79	Female competition for availability of males in insects: the Nezara viridula (Linnaeus, 1758) model. Insect Science, 2020, 27, 801-814.	3.0	7
80	Selective responses of <scp>Trissolcus basalis</scp> and <scp>Telenomus podisi</scp> to chemical footprints of preferred hosts. Physiological Entomology, 2020, 45, 60-71.	1.5	7
81	Priming of indirect defence responses in maize is shown to be genotype-specific. Arthropod-Plant Interactions, 2021, 15, 313-328.	1.1	7
82	Chapter 11 Use of Vibratory Signals for Stink Bug Monitoring and Control. , 2017, , 226-245.		7
83	Field capture of Thyanta perditor with pheromone-baited traps. Pesquisa Agropecuaria Brasileira, 2011, 46, 113-119.	0.9	7
84	Comparative biology of two congeneric stinkbugs, Chinavia impicticornis and C. ubica (Hemiptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	7
85	Inefficient weaponâ€"the role of plant secondary metabolites in cotton defence against the boll weevil. Planta, 2020, 252, 94.	3.2	6
86	Defesas induzidas por herbivoria e interaÃ§Ãµes especÃficas no sistema tritrÃ³fico soja-percevejos-parasitoides de ovos. Pesquisa Agropecuaria Brasileira, 2012, 47, 875-878.	0.9	5
87	Identification and Expression Profile of Two Putative Odorant-Binding Proteins from the Neotropical Brown Stink Bug, Euschistus heros (Fabricius) (Hemiptera: Pentatomidae). Neotropical Entomology, 2014, 43, 106-114.	1.2	5
88	Specificity of Male Responses to Female Vibratory Signals in two Chinavia Species (Hemiptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 Cognition, 2019, 6, 1-12.	1.0	5
89	Stink Bug Communication and Signal Detection in a Plant Environment. Insects, 2021, 12, 1058.	2.2	5
90	Attraction of Telenomus podisi to volatiles induced by Euschistus heros in three different plant species. Arthropod-Plant Interactions, 2016, 10, 419-428.	1.1	4

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91	Kairomones fromEuschistus herosegg masses and their potential use forTelenomus podisiparasitism improvement. Bulletin of Entomological Research, 2020, 110, 638-644.	1.0	4
92	Stink Bug Inter-Plant Communication with Signals Produced by Vibration of Lifted Wings. Journal of Insect Behavior, 2021, 34, 194-210.	0.7	4
93	Identification and field evaluation of a new blend of the sex pheromone of Hypsipyla grandella. Pesquisa Agropecuaria Brasileira, 2017, 52, 977-986.	0.9	4
94	The influence of resistant soybean cultivars on the biological development of Euschistus heros (Hemiptera: Pentatomidae). Journal of Plant Interactions, 2019, 14, 544-551.	2.1	3
95	Food diversification with associated plants increases the performance of the Neotropical stink bug, Chinavia impicticornis (Hemiptera: Pentatomidae). Arthropod-Plant Interactions, 2019, 13, 423-429.	1.1	3
96	Influence of semiochemicals present in the scales of Spodoptera frugiperda on chemotactic behavior of Trichogramma pretiosum. Entomologia Experimentalis Et Applicata, 2021, 169, 393-402.	1.4	3
97	Age Influence on Sexual Behavior of the Lesser Cornstalk Borer, Elasmopalpus lignosellus (Zeller) (Lepidoptera: Pyralidae). Neotropical Entomology, 2018, 47, 205-210.	1.2	3
98	Exploitation of herbivore-induced cotton volatiles by the parasitic wasp Bracon vulgaris reveals a dominant chemotactic effect of terpenoids. BioControl, 2022, 67, 135-148.	2.0	3
99	Field Responses of Rice Stalk Stink Bug, Tibraca limbativentris, to Synthetic Sex Pheromone and Isomers of 1,10-Bisaboladien-3-ol. Neotropical Entomology, 2021, 50, 282-288.	1.2	2
100	Why shading cedar (Cedrela fissilis) reduces damage caused by mahogany shoot borer, Hypsipyla grandella (Zeller)?. Forest Ecology and Management, 2022, 504, 119853.	3.2	2
101	Parasitoids of Drosophilids in the Brazilian Savanna: Spatialâ€“temporal Distribution and Host Associations with Native and Exotic Species. Neotropical Entomology, 0, , .	1.2	2
102	Attractant Pheromone of the Neotropical SpeciesNeomegalotomus parvus(Westwood) (Heteroptera:) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	1
103	Chapter 12 Suggestions for Neotropic Stink Bug Pest Status and Control. , 2017, , 246-254.		0
104	Neotropical maize genotypes with different levels of benzoxazinoids affect fall armyworm development. Physiological Entomology, 0, , .	1.5	0