

Raul A Laumann

List of Publications by Year in descending order

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104
papers

2,394
citations

201674

27
h-index

276875

41
g-index

107
all docs

107
docs citations

107
times ranked

1682
citing authors

#	ARTICLE	IF	CITATIONS
1	Why shading cedar (<i>Cedrela fissilis</i>) reduces damage caused by mahogany shoot borer, <i>Hypsipyla grandella</i> (Zeller)? <i>Forest Ecology and Management</i> , 2022, 504, 119853.	3.2	2
2	Companion and Smart Plants: Scientific Background to Promote Conservation Biological Control. <i>Neotropical Entomology</i> , 2022, 51, 171-187.	1.2	11
3	Exploitation of herbivore-induced cotton volatiles by the parasitic wasp <i>Bracon vulgaris</i> reveals a dominant chemotactic effect of terpenoids. <i>BioControl</i> , 2022, 67, 135-148.	2.0	3
4	Biological control of invasive stink bugs: review of global state and future prospects. <i>Entomologia Experimentalis Et Applicata</i> , 2021, 169, 28-51.	1.4	60
5	Field Responses of Rice Stalk Stink Bug, <i>Tibraca limbativentris</i> , to Synthetic Sex Pheromone and Isomers of 1,10-Bisaboladien-3-ol. <i>Neotropical Entomology</i> , 2021, 50, 282-288.	1.2	2
6	Inhibitory Copulation Effect of Vibrational Rival Female Signals of Three Stink Bug Species as a Tool for Mating Disruption. <i>Insects</i> , 2021, 12, 177.	2.2	10
7	Influence of semiochemicals present in the scales of <i>Spodoptera frugiperda</i> on chemotactic behavior of <i>Trichogramma pretiosum</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2021, 169, 393-402.	1.4	3
8	Priming of indirect defence responses in maize is shown to be genotype-specific. <i>Arthropod-Plant Interactions</i> , 2021, 15, 313-328.	1.1	7
9	Stink Bug Inter-Plant Communication with Signals Produced by Vibration of Lifted Wings. <i>Journal of Insect Behavior</i> , 2021, 34, 194-210.	0.7	4
10	Stink Bug Communication and Signal Detection in a Plant Environment. <i>Insects</i> , 2021, 12, 1058.	2.2	5
11	Female competition for availability of males in insects: the <i>Nezara viridula</i> (Linnaeus, 1758) model. <i>Insect Science</i> , 2020, 27, 801-814.	3.0	7
12	Male-Produced Sex Pheromone of <i>Tibraca limbativentris</i> Revisited: Absolute Configurations of Zingiberenol Stereoisomers and their Influence on Chemotaxis Behavior of Conspecific Females. <i>Journal of Chemical Ecology</i> , 2020, 46, 1-9.	1.8	10
13	Selective responses of <i>Trissolcus basalis</i> and <i>Telenomus podisi</i> to chemical footprints of preferred hosts. <i>Physiological Entomology</i> , 2020, 45, 60-71.	1.5	7
14	Inefficient weapon—the role of plant secondary metabolites in cotton defence against the boll weevil. <i>Planta</i> , 2020, 252, 94.	3.2	6
15	Kairomones from <i>Euschistus heros</i> egg masses and their potential use for <i>Telenomus podisi</i> parasitism improvement. <i>Bulletin of Entomological Research</i> , 2020, 110, 638-644.	1.0	4
16	Development of an attract-and-infect device for biological control of lesser mealworm, <i>Alphitobius diaperinus</i> (Coleoptera: Tenebrionidae) in poultry houses. <i>Biological Control</i> , 2020, 149, 104326.	3.0	10
17	Differential induction of volatiles in rice plants by two stink bug species influence behaviour of conspecifics and their natural enemy <i>Telenomus podisi</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2020, 168, 76-90.	1.4	9
18	Variability in herbivore-induced defence signalling across different maize genotypes impacts significantly on natural enemy foraging behaviour. <i>Journal of Pest Science</i> , 2019, 92, 723-736.	3.7	19

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19	The influence of resistant soybean cultivars on the biological development of <i>Euschistus heros</i> (Hemiptera: Pentatomidae). Journal of Plant Interactions, 2019, 14, 544-551.	2.1	3
20	Semiochemicals for Integrated Pest Management. , 2019, , 85-112.		8
21	<i>Anthonomus grandis</i> aggregation pheromone induces cotton indirect defence and attracts the parasitic wasp <i>Bracon vulgaris</i> . Journal of Experimental Botany, 2019, 70, 1891-1901.	4.8	17
22	Influence of constitutive and induced volatiles from mature green coffee berries on the foraging behaviour of female coffee berry borers, <i>Hypothenemus hampei</i> (Ferrari) (Coleoptera: Curculionidae) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		
23	Food diversification with associated plants increases the performance of the Neotropical stink bug, <i>Chinavia impicticornis</i> (Hemiptera: Pentatomidae). Arthropod-Plant Interactions, 2019, 13, 423-429.	1.1	3
24	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
25	Development of pull and push-pull systems for management of lesser mealworm, <i>Alphitobius diaperinus</i> , in poultry houses using alarm and aggregation pheromones. Pest Management Science, 2019, 75, 1107-1114.	3.4	15
26	Stinkbugs: Multisensory Communication with Chemical and Vibratory Signals Transmitted Through Different Media. Animal Signals and Communication, 2019, , 91-122.	0.8	10
27	Specificity of Male Responses to Female Vibratory Signals in two <i>Chinavia</i> Species (Hemiptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Cognition, 2019, 6, 1-12.	1.0	5
28	Stink Bug Communication with Multimodal Signals Transmitted through Air and Substrate. Emerging Science Journal, 2019, 3, 407-424.	3.7	8
29	Substrate-borne vibrations disrupt the mating behaviors of the neotropical brown stink bug, <i>Euschistus heros</i> : implications for pest management. Journal of Pest Science, 2018, 91, 995-1004.	3.7	20
30	Attractiveness of Host Plant Volatile Extracts to the Asian Citrus Psyllid, <i>Diaphorina citri</i> , is Reduced by Terpenoids from the Non-Host Cashew. Journal of Chemical Ecology, 2018, 44, 397-405.	1.8	32
31	Influence of multiple- and single-species infestations on herbivore-induced cotton volatiles and <i>Anthonomus grandis</i> behaviour. Journal of Pest Science, 2018, 91, 1019-1032.	3.7	19
32	Identification of Volatile Compounds Involved in Host Location by <i>Anthonomus grandis</i> (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	16
33	Age Influence on Sexual Behavior of the Lesser Cornstalk Borer, <i>Elasmopalpus lignosellus</i> (Zeller) (Lepidoptera: Pyralidae). Neotropical Entomology, 2018, 47, 205-210.	1.2	3
34	The social wasp <i>Polybia fastidiosuscula</i> Saussure (Hymenoptera: Vespidae) uses herbivore-induced maize plant volatiles to locate its prey. Journal of Applied Entomology, 2017, 141, 620-629.	1.8	14
35	Rivalry between Stink Bug Females in a Vibrational Communication Network. Journal of Insect Behavior, 2017, 30, 741-758.	0.7	13
36	Chapter 11 Use of Vibratory Signals for Stink Bug Monitoring and Control. , 2017, , 226-245.		7

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37	Identification and field evaluation of a new blend of the sex pheromone of <i>Hypsipyla grandella</i> . <i>Pesquisa Agropecuaria Brasileira</i> , 2017, 52, 977-986.	0.9	4
38	Chapter 12 Suggestions for Neotropic Stink Bug Pest Status and Control. , 2017, , 246-254.		0
39	Semiochemicals from plants and insects on the foraging behavior of <i>Platygastridae</i> egg parasitoids. <i>Pesquisa Agropecuaria Brasileira</i> , 2016, 51, 454-464.	0.9	18
40	Identification and field evaluation of the sex pheromone of a Brazilian population of <i>Spodoptera cosmioides</i> . <i>Pesquisa Agropecuaria Brasileira</i> , 2016, 51, 545-554.	0.9	7
41	The influence of volatile semiochemicals from stink bug eggs and oviposition-damaged plants on the foraging behaviour of the egg parasitoid <i>Telenomus podisi</i> . <i>Bulletin of Entomological Research</i> , 2016, 106, 663-671.	1.0	28
42	Influence of Two Acyclic Homoterpenes (Tetranorterpenes) on the Foraging Behavior of <i>Anthonomus grandis</i> Boh. <i>Journal of Chemical Ecology</i> , 2016, 42, 305-313.	1.8	27
43	Revisiting the Male-Produced Aggregation Pheromone of the Lesser Mealworm, <i>Alphitobius diaperinus</i> (Coleoptera, Tenebrionidae): Identification of a Six-Component Pheromone from a Brazilian Population. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6809-6818.	5.2	22
44	Attraction of <i>Telenomus podisi</i> to volatiles induced by <i>Euschistus heros</i> in three different plant species. <i>Arthropod-Plant Interactions</i> , 2016, 10, 419-428.	1.1	4
45	Vibratory Communication and its Relevance to Reproductive Isolation in two Sympatric Stink Bug Species (Hemiptera: Pentatomidae: Pentatominae). <i>Journal of Insect Behavior</i> , 2016, 29, 643-665.	0.7	10
46	An integrative multidisciplinary approach to understanding cryptic divergence in Brazilian species of the <i>Anastrepha fraterculus</i> complex (Diptera: Tephritidae). <i>Biological Journal of the Linnean Society</i> , 2016, 117, 725-746.	1.6	35
47	Interaction of <i>Anthonomus grandis</i> and cotton genotypes: biological and behavioral responses. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 156, 238-253.	1.4	9
48	Interference of Overlapping Insect Vibratory Communication Signals: An <i>Euschistus heros</i> Model. <i>PLoS ONE</i> , 2015, 10, e0130775.	2.5	21
49	Wing Morphometry and Acoustic Signals in Sterile and Wild Males: Implications for Mating Success in <i>Ceratitis capitata</i> . <i>Scientific World Journal</i> , The, 2015, 2015, 1-9.	2.1	7
50	Chemical Composition of <i>Alphitobius diaperinus</i> (Coleoptera: Tenebrionidae) Abdominal Glands and the Influence of 1,4-benzoquinones on its Behavior. <i>Journal of Economic Entomology</i> , 2015, 108, 2107-2116.	1.8	14
51	Effect of resistant and susceptible soybean cultivars on the attraction of egg parasitoids under field conditions. <i>Journal of Applied Entomology</i> , 2015, 139, 207-216.	1.8	19
52	The fungistatic and fungicidal effects of volatiles from metathoracic glands of soybean-attacking stink bugs (Heteroptera: Pentatomidae) on the entomopathogen <i>Beauveria bassiana</i> . <i>Journal of Invertebrate Pathology</i> , 2015, 132, 77-85.	3.2	40
53	Transcriptome-Based Identification of Highly Similar Odorant-Binding Proteins among Neotropical Stink Bugs and Their Egg Parasitoid. <i>PLoS ONE</i> , 2015, 10, e0132286.	2.5	25
54	Comparative biology of two congeneric stinkbugs, <i>Chinavia impicticornis</i> and <i>C. ubica</i> (Hemiptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,9		

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55	Current knowledge of the species complex <i>Anastrepha fraterculus</i> (Diptera, Tephritidae) in Brazil. <i>ZooKeys</i> , 2015, 540, 211-237.	1.1	31
56	Monitoramento do percevejo marrom <i>Euschistus heros</i> (Hemiptera: Pentatomidae) por feromônio sexual em lavoura de soja. <i>Pesquisa Agropecuaria Brasileira</i> , 2014, 49, 844-852.	0.9	12
57	Field evaluation of (E)-2-hexenal efficacy for behavioral manipulation of egg parasitoids in soybean. <i>BioControl</i> , 2014, 59, 525-537.	2.0	17
58	Herbivory-induced plant volatiles from <i>Oryza sativa</i> and their influence on chemotaxis behaviour of <i>Tibraca limbativentris</i> stål. (Hemiptera: Pentatomidae) and egg parasitoids. <i>Bulletin of Entomological Research</i> , 2014, 104, 347-356.	1.0	18
59	Vibrational communication and mating behaviour of <i>Dichelops melacanthus</i> (Hemiptera: Pentatomidae) recorded from loudspeaker membranes and plants. <i>Physiological Entomology</i> , 2014, 39, 1-11.	1.5	16
60	Combination of the fungus <i>Beauveria bassiana</i> and pheromone in an attract-and-kill strategy against the banana weevil, <i>Cosmopolites sordidus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2014, 151, 75-85.	1.4	25
61	Identification and Expression Profile of Two Putative Odorant-Binding Proteins from the Neotropical Brown Stink Bug, <i>Euschistus heros</i> (Fabricius) (Hemiptera: Pentatomidae). <i>Neotropical Entomology</i> , 2014, 43, 106-114.	1.2	5
62	Lethal and sublethal effects of four essential oils on the egg parasitoids <i>Trissolcus basalis</i> . <i>Chemosphere</i> , 2013, 92, 608-615.	8.2	42
63	Influence of volatile compounds from herbivore-damaged soybean plants on searching behavior of the egg parasitoid <i>Telenomus podisi</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2013, 147, 9-17.	1.4	28
64	Zingiberenol, (1S,4R,5S)-4-(1,5-dimethylhex-4-enyl)-1-methylcyclohex-2-en-1-ol, Identified as the Sex Pheromone Produced by Males of the Rice Stink Bug <i>Oebalus poecilus</i> (Heteroptera: Pentatomidae). <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7777-7785.	5.2	21
65	Tremulatory and Abdomen Vibration Signals Enable Communication through Air in the Stink Bug <i>Euschistus heros</i> . <i>PLoS ONE</i> , 2013, 8, e56503.	2.5	28
66	cis-Jasmone indirect action on egg parasitoids (Hymenoptera: Scelionidae) and its application in biological control of soybean stink bugs (Hemiptera: Pentatomidae). <i>Biological Control</i> , 2013, 64, 75-82.	3.0	28
67	Reproductive behaviour and vibratory communication of the neotropical predatory stink bug <i>Podisus nigrispinus</i> . <i>Physiological Entomology</i> , 2013, 38, 71-80.	1.5	18
68	Reproductive Biology, Mating Behavior, and Vibratory Communication of the Brown-Winged Stink Bug, <i>Edessa meditabunda</i> (Fabr.) (Heteroptera: Pentatomidae). <i>Psyche: Journal of Entomology</i> , 2012, 2012, 1-9.	0.9	16
69	Attractant Pheromone of the Neotropical Species <i>Neomegalotomus parvus</i> (Westwood) (Heteroptera: Pentatomidae). <i>Trends in Entomology</i> , 2012, 1, 1-9.	0.9	16
70	Influence of visual cues on host-searching and learning behaviour of the egg parasitoids <i>Telenomus podisi</i> and <i>Trissolcus basalis</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2012, 145, 162-174.	1.4	25
71	Sex Pheromone Communication in Two Sympatric Neotropical Stink Bug Species <i>Chinavia ubica</i> and <i>Chinavia impicticornis</i> . <i>Journal of Chemical Ecology</i> , 2012, 38, 836-845.	1.8	23
72	Semiochemicals from Herbivory Induced Cotton Plants Enhance the Foraging Behavior of the Cotton Boll Weevil, <i>Anthonomus grandis</i> . <i>Journal of Chemical Ecology</i> , 2012, 38, 1528-1538.	1.8	50

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73	Defesas induzidas por herbivoria e interações específicas no sistema tritrofico soja-percevejos-parasitoides de ovos. Pesquisa Agropecuaria Brasileira, 2012, 47, 875-878.	0.9	5
74	Trichogramma pretiosum attraction due to the Elasmopalpus lignosellus damage in maize. Pesquisa Agropecuaria Brasileira, 2011, 46, 578-585.	0.9	10
75	Monitoring the Neotropical brown stink bug <i>Euschistus heros</i> (F.) (Hemiptera: Pentatomidae) with pheromone-baited traps in soybean fields. Journal of Applied Entomology, 2011, 135, 68-80.	1.8	54
76	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
77	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
78	Effect of Bt genetic engineering on indirect defense in cotton via a tritrophic interaction. Transgenic Research, 2011, 20, 99-107.	2.4	22
79	Field capture of <i>Thyanta perditor</i> with pheromone-baited traps. Pesquisa Agropecuaria Brasileira, 2011, 46, 113-119.	0.9	7
80	Morphology, distribution and abundance of antennal sensilla in three stink bug species (Hemiptera: Pentatomidae). Entomologia Experimentalis Et Applicata, 2011, 120, 107-115.	2.2	34
81	Odour masking of tomato volatiles by coriander volatiles in host plant selection of <i>Bemisia tabaci</i> biotype B. Entomologia Experimentalis Et Applicata, 2010, 136, 164-173.	1.4	60
82	Egg parasitoid wasps as natural enemies of the neotropical stink bug <i>Dichelops melacanthus</i> . Pesquisa Agropecuaria Brasileira, 2010, 45, 442-449.	0.9	23
83	Response of the Egg Parasitoids <i>Trissolcus basalis</i> and <i>Telenomus podisi</i> to Compounds from Defensive Secretions of Stink Bugs. Journal of Chemical Ecology, 2009, 35, 8-19.	1.8	56
84	Attraction of the stink bug egg parasitoid <i>Telenomus podisi</i> to defence signals from soybean activated by treatment with <i>cis</i> -jasmones. Entomologia Experimentalis Et Applicata, 2009, 131, 178-188.	1.4	78
85	Response of the parasitoid <i>Telenomus podisi</i> to induced volatiles from soybean damaged by stink bug herbivory and oviposition. Journal of Plant Interactions, 2008, 3, 111-118.	2.1	46
86	Food and humidity affect sex pheromone ratios in the stink bug, <i>Euschistus heros</i> . Physiological Entomology, 2008, 33, 43-50.	1.5	17
87	Comparative biology and functional response of <i>Trissolcus</i> spp. (Hymenoptera: Scelionidae) and implications for stink bugs (Hemiptera: Pentatomidae) biological control. Biological Control, 2008, 44, 32-41.	3.0	35
88	The chemical volatiles (Semiocemicals) produced by neotropical stink bugs (Hemiptera: Pentatomidae). Entomologia Experimentalis Et Applicata, 2007, 101, 142-150.	1.2	81
89	<i>Euschistus heros</i> mass rearing technique for the multiplication of <i>Telenomus podisi</i> . Pesquisa Agropecuaria Brasileira, 2008, 43, 575-580.	0.9	57
90	Screening and secretomic analysis of entomopathogenic <i>Beauveria bassiana</i> isolates in response to cowpea weevil (<i>Callosobruchus maculatus</i>) exoskeleton. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 145, 333-338.	2.6	22

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91	Eavesdropping on sexual vibratory signals of stink bugs (Hemiptera: Pentatomidae) by the egg parasitoid <i>Telenomus podisi</i> . <i>Animal Behaviour</i> , 2007, 73, 637-649.	1.9	71
92	Isolation of a novel <i>Carica papaya</i> α -amylase inhibitor with deleterious activity toward <i>Callosobruchus maculatus</i> . <i>Pesticide Biochemistry and Physiology</i> , 2007, 87, 255-260.	3.6	41
93	Inter- and intraspecific variation in defensive compounds produced by five neotropical stink bug species (Hemiptera: Pentatomidae). <i>Journal of Insect Physiology</i> , 2007, 53, 639-648.	2.0	52
94	A Male-produced Sex Pheromone from the Neotropical Redbanded Stink Bug, <i>Piezodorus guildinii</i> (W.). <i>Journal of Chemical Ecology</i> , 2007, 33, 1235-1248.	1.8	42
95	Molecular Identification of Four Different α -amylase Inhibitors from Baru (<i>Dipteryx alata</i>) Seeds with Activity Toward Insect Enzymes. <i>BMB Reports</i> , 2007, 40, 494-500.	2.4	19
96	Screening of entomopathogenic <i>Metarhizium anisopliae</i> isolates and proteomic analysis of secretion synthesized in response to cowpea weevil (<i>Callosobruchus maculatus</i>) exoskeleton. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2006, 142, 365-370.	2.6	27
97	Sensory response of the egg parasitoid <i>Telenomus podisi</i> to stimuli from the bug <i>Euschistus heros</i> . <i>Pesquisa Agropecuaria Brasileira</i> , 2006, 41, 1093-1098.	0.9	32
98	Sex Attractant Pheromone from the Rice Stalk Stink Bug, <i>Tibraca limbativentris</i> Stal. <i>Journal of Chemical Ecology</i> , 2006, 32, 2749-2761.	1.8	43
99	Induced volatiles in soybean and pigeon pea plants artificially infested with the neotropical brown stink bug, <i>Euschistus heros</i> , and their effect on the egg parasitoid, <i>Telenomus podisi</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2005, 115, 227-237.	1.4	91
100	Sex Attractant Pheromone from the Neotropical Red-Shouldered Stink Bug, <i>Thyanta perditor</i> (F.). <i>Journal of Chemical Ecology</i> , 2005, 31, 1415-1427.	1.8	30
101	Molecular Cloning and Expression of an α -Amylase Inhibitor from Rye with Potential for Controlling Insect Pests. <i>Protein Journal</i> , 2005, 24, 113-123.	1.6	28
102	Vibratory signals of four Neotropical stink bug species. <i>Physiological Entomology</i> , 2005, 30, 175-188.	1.5	67
103	Neotropical maize genotypes with different levels of benzoxazinoids affect fall armyworm development. <i>Physiological Entomology</i> , 0, , .	1.5	0
104	Parasitoids of Drosophilids in the Brazilian Savanna: Spatial-temporal Distribution and Host Associations with Native and Exotic Species. <i>Neotropical Entomology</i> , 0, , .	1.2	2