

Alfred M Handler

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,461
citations

394421

19
h-index

330143

37
g-index

38
all docs

38
docs citations

38
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of the piggyBac transposon for germ-line transformation of insects. <i>Insect Biochemistry and Molecular Biology</i> , 2002, 32, 1211-1220.	2.7	160
2	Gene content evolution in the arthropods. <i>Genome Biology</i> , 2020, 21, 15.	8.8	150
3	The whole genome sequence of the Mediterranean fruit fly, <i>Ceratitis capitata</i> (Wiedemann), reveals insights into the biology and adaptive evolution of a highly invasive pest species. <i>Genome Biology</i> , 2016, 17, 192.	8.8	130
4	Transformation of the Caribbean fruit fly, <i>Anastrepha suspensa</i> , with a piggyBac vector marked with polyubiquitin-regulated GFP. <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 199-205.	2.7	120
5	A transgenic embryonic sexing system for <i>Anastrepha suspensa</i> (Diptera: Tephritidae). <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 790-795.	2.7	88
6	Prospects for using genetic transformation for improved SIT and new biocontrol methods. <i>Genetica</i> , 2002, 116, 137-149.	1.1	72
7	P element excision in <i>Drosophila melanogaster</i> and related drosophilids. <i>Molecular Genetics and Genomics</i> , 1991, 225, 387-394.	2.4	71
8	A functional analysis of the P-element gene-transfer vector in insects. <i>Archives of Insect Biochemistry and Physiology</i> , 1993, 22, 373-384.	1.5	63
9	Strategy for enhanced transgenic strain development for embryonic conditional lethality in <i>Anastrepha suspensa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9348-9353.	7.1	61
10	Male only progeny in <i>Anastrepha suspensa</i> by RNAi-induced sex reversion of chromosomal females. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 51-57.	2.7	61
11	The <i>hobo</i> Transposable Element Excises and Has Related Elements in Tephritid Species. <i>Genetics</i> , 1996, 143, 1339-1347.	2.9	44
12	Recommendations for Laboratory Containment and Management of Gene Drive Systems in Arthropods. <i>Vector-Borne and Zoonotic Diseases</i> , 2018, 18, 2-13.	1.5	37
13	The role of the transformer gene in sex determination and reproduction in the tephritid fruit fly, <i>Bactrocera dorsalis</i> (Hendel). <i>Genetica</i> , 2015, 143, 717-727.	1.1	35
14	miRNA-1-3p is an early embryonic male sex-determining factor in the Oriental fruit fly <i>Bactrocera dorsalis</i> . <i>Nature Communications</i> , 2020, 11, 932.	12.8	35
15	Understanding and improving transgene stability and expression in insects for SIT and conditional lethal release programs. <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 121-130.	2.7	34
16	A new hobo, Ac, Tam3 transposable element, hopper, from <i>Bactrocera dorsalis</i> is distantly related to hobo and Ac. <i>Gene</i> , 1997, 185, 133-135.	2.2	30
17	Temperature-dependent sex-reversal by a transformer-2 gene-edited mutation in the spotted wing drosophila, <i>Drosophila suzukii</i> . <i>Scientific Reports</i> , 2017, 7, 12363.	3.3	29
18	The hobo transposable element has transposase-dependent and-independent excision activity in drosophilid species. <i>Molecular Genetics and Genomics</i> , 1995, 247, 399-408.	2.4	27

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19	A Functional Comparison of the <i>3xP3</i> Promoter by Recombinase-Mediated Cassette Exchange in <i>Drosophila</i> and a Tephritid Fly, <i>Anastrepha suspensa</i> . <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 687-693.	1.8	23
20	CRISPR/Cas9-mediated gene editing in an exogenous transgene and an endogenous sex determination gene in the Caribbean fruit fly, <i>Anastrepha suspensa</i> . <i>Gene</i> , 2019, 691, 160-166.	2.2	20
21	Enhancing the stability and ecological safety of mass-reared transgenic strains for field release by redundant conditional lethality systems. <i>Insect Science</i> , 2016, 23, 225-234.	3.0	19
22	Cre/lox-Recombinase-Mediated Cassette Exchange for Reversible Site-Specific Genomic Targeting of the Disease Vector, <i>Aedes aegypti</i> . <i>Scientific Reports</i> , 2017, 7, 43883.	3.3	19
23	Overexpression of an antioxidant enzyme improves male mating performance after stress in a lek-mating fruit fly. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190531.	2.6	19
24	Genetic breakdown of a Tet-off conditional lethality system for insect population control. <i>Nature Communications</i> , 2020, 11, 3095.	12.8	18
25	Isolation and analysis of a new hopper hAT transposon from the <i>Bactrocera dorsalis</i> white eye strain. <i>Genetica</i> , 2003, 118, 17-24.	1.1	16
26	SHORT PAPER P element excision in <i>Drosophila</i> is stimulated by gamma-irradiation in transient embryonic assays. <i>Genetical Research</i> , 1997, 70, 75-78.	0.9	14
27	Identification and analysis of the major yolk polypeptide from the Caribbean fruit fly, <i>Anastrepha suspensa</i> (loew). <i>Archives of Insect Biochemistry and Physiology</i> , 1988, 9, 91-106.	1.5	10
28	Developmental regulation of yolk protein gene expression in <i>Anastrepha suspensa</i> . <i>Archaeometry</i> , 1997, 36, 25-35.	1.3	10
29	United States Department of Agriculture?Agricultural Research Service: advances in the molecular genetic analysis of insects and their application to pest management. <i>Pest Management Science</i> , 2003, 59, 728-735.	3.4	10
30	Toxicological risk assessment of some commonly used insecticides on <i>Cotesia flavipes</i> , a larval parasitoid of the spotted stem borer <i>Chilo partellus</i> . <i>Ecotoxicology</i> , 2021, 30, 448-458.	2.4	10
31	COMPOSITIONAL CHARACTERIZATION OF FRENCH LIMESTONE: A NEW TOOL FOR ART HISTORIANS. <i>Archaeometry</i> , 1994, 36, 25-39.	1.3	5
32	Fitness Cost Implications of PhiC31-Mediated Site-Specific Integrations in Target-Site Strains of the Mexican Fruit Fly, <i>Anastrepha ludens</i> (Diptera: Tephritidae). <i>PLoS ONE</i> , 2014, 9, e109690.	2.5	5
33	Insect Transgenesis: Mechanisms, Applications, and Ecological Safety. <i>Biotechnology and Genetic Engineering Reviews</i> , 2006, 23, 129-156.	6.2	4
34	The hAT-family transposable element, hopper, from <i>Bactrocera dorsalis</i> is a functional vector for insect germline transformation. <i>BMC Genetics</i> , 2020, 21, 137.	2.7	4
35	Sex-Specific Selection Using Chimeric Genes. <i>ACS Symposium Series</i> , 1988, , 135-146.	0.5	3
36	Transcriptome Analysis of the Oriental Fruit Fly <i>Bactrocera dorsalis</i> Early Embryos. <i>Insects</i> , 2020, 11, 323.	2.2	3

#	ARTICLE	IF	CITATIONS
37	Mitochondrial superoxide dismutase overexpression and low oxygen conditioning hormesis improve the performance of irradiated sterile males. Scientific Reports, 2021, 11, 20182.	3.3	1