Jonathan Gressel

List of Publications by Year
in descending order

104 papers	4,541 citations	87888 38 h-index	114465 63 g-index
120 all docs	120 docs citations	120 times ranked	3385 citing authors

#	Article	IF	Citations
1	Perspective: It is time to consider new ways to attack unpesticidable (undruggable) target sites by designing peptide pesticides. Pest Management Science, 2022, 78, 2108-2112.	3.4	3
2	Perspective: present pesticide discovery paradigms promote the evolution of resistance â€“ learn from nature and prioritize multiâ€target site inhibitor design. Pest Management Science, 2020, 76, 421-425.	3.4	42
3	Microbiome facilitated pest resistance: potential problems and uses. Pest Management Science, 2018, 74, 511-515.	3.4	45
4	Suppressing aflatoxin biosynthesis is not a breakthrough if not useful. Pest Management Science, 2018, 74, 17-21.	3.4	22
5	Catch 22: All Doses Select for Resistance. When Will This Happen and How To Slow Evolution?. ACS Symposium Series, 2017, , 61-72.	0.5	3
6	How well will stacked transgenic pest/herbicide resistances delay pests from evolving resistance?. Pest Management Science, 2017, 73, 22-34.	3.4	36
7	Are integrated pest management (IPM) and resistance management synonymous or antagonistic?. Pest Management Science, 2015, 71, 329-330.	3.4	2
8	Perspective: Consider Removing 'Inherited' from Definitions of Pesticide Resistance. Outlooks on Pest Management, 2015, 26, 220-222.	0.2	7
9	Weedy (Red) Rice. Advances in Agronomy, 2015, , 181-228.	5.2	96
10	Dealing with transgene flow of crop protection traits from crops to their relatives. Pest Management Science, 2015, 71, 658-667.	3.4	43
11	Use of Multicopy Transposons Bearing Unfitness Genes in Weed Control: Four Example Scenarios. Plant Physiology, 2014, 166, 1221-1231.	4.8	11
12	Overexpression of <i>epsps</i> transgene in weedy rice: insufficient evidence to support speculations about biosafety. New Phytologist, 2014, 202, 360-362.	7.3	9
13	Cultivated microalgae spills: hard to predict/easier to mitigate risks. Trends in Biotechnology, 2014, 32, 65-69.	9.3	12
14	Environmental risks of large scale cultivation of microalgae: Mitigation of spills. Algal Research, 2013, 2, 286-298.	4.6	46
15	Commentary: Hormesis can be used in enhancing plant productivity and health; but not as previously envisaged. Plant Science, 2013, 213, 123-127.	3.6	22
16	Biotechnologies for Directly Generating Crops Resistant to Parasites. , 2013, , 433-458.		4
17	Containing and mitigating transgene flow from crops to weeds, to wild species, and to crops. , 2012, , 509-523.		5
18	Inexpensive non-toxic flocculation of microalgae contradicts theories; overcoming a major hurdle to bulk algal production. Biotechnology Advances, 2012, 30, 1023-1030.	11.7	209

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19	Herbicide Applied to Imidazolinone Resistant-Maize Seed as a<i>Striga</i>Control Option for Small-Scale African Farmers. Weed Science, 2012, 60, 283-289.	1.5	26
20	Low pesticide rates may hasten the evolution of resistance by increasing mutation frequencies. Pest Management Science, 2011, 67, 253-257.	3.4	140
21	Needs for and environmental risks from transgenic crops in the developing world. New Biotechnology, 2010, 27, 522-527.	4.4	15
22	Weed genomics advance: a commentary. Pest Management Science, 2010, 66, 1041-1041.	3.4	6
23	Gene flow of transgenic seed-expressed traits: Biosafety considerations. Plant Science, 2010, 179, 630-634.	3.6	9
24	Herbicides as Synergists for Mycoherbicides, and Vice Versa. Weed Science, 2010, 58, 324-328.	1.5	19
25	Fungal transformation of Colletotrichum coccodes with bacterial oahA to suppress defenses of Abutilon theophrasti. Crop Protection, 2009, 28, 749-755.	2.1	7
26	Needs for and effectiveness of slow release herbicide seed treatment Striga control formulations for protection against early season crop phytotoxicity. Crop Protection, 2009, 28, 845-853.	2.1	25
27	The other, ignored HIV â€" highly invasive vegetation. Food Security, 2009, 1, 463-478.	5.3	16
28	Transforming a <i>NEP</i>1 toxin gene into two <i>Fusarium</i> spp. to enhance mycoherbicide activity on <i>Orobanche</i>â€"failure and success. Pest Management Science, 2009, 65, 588-595.	3.4	13
29	Crops with targetâ€site herbicide resistance for <i>Orobanche</i> and <i>Striga</i> control. Pest Management Science, 2009, 65, 560-565.	3.4	48
30	A strategy to provide longâ€term control of weedy rice while mitigating herbicide resistance transgene flow, and its potential use for other crops with related weeds. Pest Management Science, 2009, 65, 723-731.	3.4	89
31	Evolving understanding of the evolution of herbicide resistance. Pest Management Science, 2009, 65, 1164-1173.	3.4	93
32	Genetic load and transgenic mitigating genes in transgenic Brassica rapa (field mustard) Ã— Brassica napus (oilseed rape) hybrid populations. BMC Biotechnology, 2009, 9, 93.	3.3	40
33	Transgenics are imperative for biofuel crops. Plant Science, 2008, 174, 246-263.	3.6	320
34	Hypothesis: Transgene establishment in wild relatives of wheat can be prevented by utilizing the Ph1 gene as a senso stricto chaperon to prevent homoeologous recombination. Plant Science, 2008, 175, 410-414.	3.6	17
35	FUSARIUM OXYSPORUM F. SP. STRIGA, ATHLETES FOOT OR ACHILLES HEEL?. , 2007, , 213-222.		8
36	APPROACHES TO AND SUCCESSES IN DEVELOPING TRANSGENICALLY ENHANCED MYCOHERBICIDES. , 2007, , 297-305.		11

#	ARTICLE	IF	CITATIONS
37	FAILSAFE MECHANISMS FOR PREVENTING GENE FLOW AND ORGANISM DISPERSAL OF ENHANCED MICROBIAL BIOCONTROL AGENTS. , 2007, , 353-362.		7
38	SUCCESS WITH THE LOW BIOTECH OF SEED-COATED IMIDAZOLINONE-RESISTANT MAIZE. , 2007, , 145-158.		10
39	TRANSGENIC BIOCONTROL AGENTS TO OVERCOME EVOLUTIONARY BARRIERS. , 2007, , 313-323.		3
40	Assessing Risks and Containing or Mitigating Gene Flow of Transgenic and Non-transgenic Phytoremediating Plants. , 2006, , 259-284.		3
41	Infertile interspecific hybrids between transgenically mitigated Nicotiana tabacum and Nicotiana sylvestris did not backcross to N. sylvestris. Plant Science, 2006, 170, 953-961.	3.6	6
42	Mitigation of establishment of Brassica napus transgenes in volunteers using a tandem construct containing a selectively unfit gene. Plant Biotechnology Journal, 2006, 4, 7-21.	8.3	50
43	Mitigation using a tandem construct containing a selectively unfit gene precludes establishment of Brassica napus transgenes in hybrids and backcrosses with weedy Brassica rapa. Plant Biotechnology Journal, 2006, 4, 23-33.	8.3	45
44	Agriculture: The selector of improbable mutations. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12215-12216.	7.1	53
45	AN INTEGRATED APPROACH TO BIOLOGICAL CONTROL OF PLANT DISEASES AND WEEDS IN EUROPE. , 2006, , 257-274.		3
46	Problems in qualifying and quantifying assumptions in plant protection models: Resultant simulations can be mistaken by a factor of million. Crop Protection, 2005, 24, 1007-1015.	2.1	38
47	Transgene Containment Using Cytokinin-Reversible Male Sterility in Constitutive, Gibberellic Acidâ€“Insensitive (Î”gai) Transgenic Tobacco. Journal of Plant Growth Regulation, 2005, 24, 19-27.	5.1	12
48	Poor competitive fitness of transgenically mitigated tobacco in competition with the wild type in a replacement series. Planta, 2005, 222, 372-385.	3.2	40
49	Sequence Evidence for Sporadic Intergeneric DNA Introgression from Wheat into a Wild Aegilops Species. Molecular Biology and Evolution, 2005, 22, 2055-2062.	8.9	51
50	Assessing and Managing Biological Risks of Plants Used for Bioremediation, Including Risks of Transgene Flow. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2005, 60, 154-165.	1.4	16
51	Molecular Containment and Mitigation of Genes within Crops â€” Prevention of Gene Establishment in Volunteer Offspring and Feral Strains. , 2005, , 371-388.		14
52	Major heretofore intractable biotic constraints to African food security that may be amenable to novel biotechnological solutions. Crop Protection, 2004, 23, 661-689.	2.1	183
53	Tandem constructs to mitigate transgene persistence: tobacco as a model. Molecular Ecology, 2004, 13, 697-710.	3.9	65
54	Let them eat (GM) straw. Trends in Biotechnology, 2003, 21, 525-530.	9.3	35

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55	Multi-site, multi-season field tests demonstrate that herbicide seed-coating herbicide-resistance maize controls Striga spp. and increases yields in several African countries. Crop Protection, 2003, 22, 697-706.	2.1	109
56	A new approach to Striga control. Outlooks on Pest Management, 2003, 14, 51-53.	0.2	3
57	Transgenically Enhanced Expression of Indole-3-Acetic Acid Confers Hypervirulence to Plant Pathogens. Phytopathology, 2002, 92, 590-596.	2.2	70
58	Infection of Tubercles of the Parasitic Weed Orobanche aegyptiaca by Mycoherbicidal Fusarium Species. Annals of Botany, 2002, 90, 567-578.	2.9	36
59	Ultralow Calcium Requirements of Fungi Facilitate Use of Calcium Regulating Agents to Suppress Host Calcium-Dependent Defenses, Synergizing Infection by a Mycoherbicide. Journal of Agricultural and Food Chemistry, 2002, 50, 6353-6360.	5.2	25
60	Universal inheritable barcodes for identifying organisms. Trends in Plant Science, 2002, 7, 542-544.	8.8	20
61	Imazapyr and pyrithiobac movement in soil and from maize seed coats to control Striga in legume intercropping. Crop Protection, 2002, 21, 611-619.	2.1	53
62	Transformation of carrots with mutant acetolactate synthase forOrobanche (broomrape) control. Pest Management Science, 2002, 58, 1187-1193.	3.4	30
63	Engineering hypervirulence in a mycoherbicidal fungus for efficient weed control. Nature Biotechnology, 2002, 20, 1035-1039.	17.5	103
64	Appropriateness of biotechnology to African agriculture: Striga and maize as paradigms. Plant Cell, Tissue and Organ Culture, 2002, 69, 105-110.	2.3	30
65	Title is missing!. Integrated Pest Management Reviews, 2002, 7, 63-64.	0.1	2
66	Transgenic Herbicide-Resistant Cropsâ€"Advantages, Drawbacks, and Failsafes. , 2002, , .		4
67	Imazapyr seed dressings for Striga control on acetolactate synthase target-site resistant maize. Crop Protection, 2001, 20, 885-895.	2.1	51
68	Potential failsafe mechanisms against the spread and introgression of transgenic hypervirulent biocontrol fungi. Trends in Biotechnology, 2001, 19, 149-154.	9.3	45
69	Molecular biology of weed control. , 2000, 9, 355-382.		45
70	Correlation of Glutathione Peroxidase to Paraquat/Oxidative Stress Resistance in Conyza Determined by Direct Fluorometric Assay. Pesticide Biochemistry and Physiology, 2000, 66, 182-194.	3.6	22
71	Transient, oxidant-induced antioxidant transcript and enzyme levels correlate with greater oxidant-resistance in paraquat-resistant Conyza bonariensis. Planta, 2000, 211, 50-61.	3.2	71
72	Negative cross-resistance in triazine-resistant biotypes ofEchinochloa crus-galliandConyza canadensis. Weed Science, 2000, 48, 176-180.	1.5	31

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73	Tandem constructs: preventing the rise of superweeds. Trends in Biotechnology, 1999, 17, 361-366.	9.3	156
74	Long-term dry preservation of viable mycelia of two mycoherbicidal organisms. Crop Protection, 1999, 18, 643-649.	2.1	74
75	A revolving dose strategy to delay the evolution of both quantitative vs major monogene resistances to pesticides and drugs. International Journal of Pest Management, 1998, 44, 161-180.	1.8	86
76	Control of parasitic witchweeds (<i>Striga</i> spp.) on corn (<i>Zea mays</i>) resistant to acetolactate synthase inhibitors. Weed Science, 1998, 46, 459-466.	1.5	54
77	World Weeds: Natural Histories and Distributions. L. Holm, J. Doll, E. Holm, J. Pancho, and J. Herberger J. Wiley, New York. 1,129 p. + xv, 1997. Cloth. ISBN 0471-04701-5, $195.. Weed Technology, 1997, 11, 633-634.	0.9	0
78	Prevention Versus Remediation in Resistance Management. ACS Symposium Series, 1996, , 169-186.	0.5	4
79	Dynamics of Weed Populationsâ€"Roger Cousens and (A.) Martin Mortimer, 1995, Cambridge University Press, Cambridge, U.K., 332 pp. ISBN 0-521-49649-7 (hard cover) Â£50; ISBN 0-521-49969-0 (paperback) Â£15.. Weed Technology, 1996, 10, 5-6.	0.9	0
80	Transgenic crops against parasites. Nature, 1995, 374, 220-221.	27.8	114
81	Are Herbicide mixtures useful for Delaying the Rapid Evolution of Resistance? a Case Study. Weed Technology, 1994, 8, 635-648.	0.9	121
82	Quantification of Infection by Alternaria cassiae Using Leaf Immunoâ€Autoradiography and Radioimmunosorbent Assays. Journal of Phytopathology, 1993, 138, 233-243.	1.0	6
83	Synergizing Pesticides To Reduce Use Rates. ACS Symposium Series, 1993, , 48-61.	0.5	4
84	Glyphosate Suppression of an Elicited Defense Response. Plant Physiology, 1992, 98, 654-659.	4.8	101
85	Isolation, Purification, and Identification of 2-(p-Hydroxyphenoxy)-5, 7-Dihydroxychromone: A Fungal-Induced Phytoalexin from Cassia obtusifolia. Plant Physiology, 1992, 98, 303-308.	4.8	38
86	International Organization for Resistant Pest Management (IOPRM) - A Step Toward Rational Resistance Management Recommendations. Weed Technology, 1992, 6, 765-770.	0.9	2
87	The Needs for New Herbicide-Resistant Crops. , 1992, , 283-294.		18
88	INDUCTION OF Trichoderma SPORULATION BY NANOSECOND LASER PULSES: EVIDENCE AGAINST CRYPTOCHROME CYCLING. Photochemistry and Photobiology, 1990, 51, 99-104.	2.5	31
89	Negative Cross Resistance; a Possible Key to Atrazine Resistance Management: A Call for Whole Plant Data. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 470-473.	1.4	26
90	Modelling the Effectiveness of Herbicide Rotations and Mixtures as Strategies to Delay or Preclude Resistance. Weed Technology, 1990, 4, 186-198.	0.9	200

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91	Mode of Evolved Photooxidant Resistance to Herbicides and Xenobiotics. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 463-469.	1.4	25
92	Correlation between CuZn superoxide dismutase and glutathione reductase, and environmental and xenobiotic stress tolerance in maize inbreds. Plant Science, 1990, 69, 157-166.	3.6	175
93	RHYTHMS IN BLUE-LIGHT-INDUCED CONIDIATION OF WILD TYPE AND A MUTANT STRAIN OF Trichoderma harzianum. Photochemistry and Photobiology, 1988, 47, 425-431.	2.5	10
94	MASSIVE ACCUMULATION OF PHYTOENE INDUCED BY NORFLURAZON IN <i>DUNALIELLA BARDAWIL</i> (CHLOROPHYCEAE) PREVENTS RECOVERY FROM PHOTOINHIBITION¹. Journal of Phycology, 1987, 23, 176-181.	2.3	42
95	MASSIVE ACCUMULATION OF PHYTOENE INDUCED BY NORFLURAZON IN <i>DUNALIELLA BARDAWIL</i> (CHLOROPHYCEAE) PREVENTS RECOVERY FROM PHOTOINHIBITION¹. Journal of Phycology, 1987, 23, 176-181.	2.3	8
96	Metabolism of lignin related aromatic compounds by Aspergillus japonicus. Archives of Microbiology, 1983, 135, 147-154.	2.2	44
97	Presence of the rapidly-labelled 32 000-dalton chloroplast membrane protein in triazine resistant biotypes. FEBS Letters, 1982, 140, 36-40.	2.8	16
98	A Review of the Place of in vitro Cell Culture Systems in Studies of Action, Metabolism and Resistance of Biocides Affecting Photosynthesis. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1979, 34, 905-913.	1.4	12
99	CHARACTERIZATION OF THE 32,000 DALTON MEMBRANE PROTEINâ€"I. EARLY SYNTHESIS DURING PHOTOINDUCED PLASTID DEVELOPMENT OF <i>SPIRODELA</i>. Photochemistry and Photobiology, 1978, 27, 161-165.	2.5	49
100	LIGHT REQUIREMENTS FOR THE ENHANCED SYNTHESIS OF A PLASTID mRNA DURING SPIRODELA GREENING. Photochemistry and Photobiology, 1978, 27, 167-169.	2.5	21
101	Direct evidence for the lack of methylation of two pulse labeled plant RNAs. Plant and Cell Physiology, 1974, , .	3.1	0
102	Transgenic marine algae for aquaculture: a coupled solution for protein sufficiency. , 0, , 233-246.		0
103	Genomics and Weeds: A Synthesis. , 0, , 221-247.		8
104	Arabidopsis Is Not a Weed, and Mostly Not a Good Model for Weed Genomics; There Is No Good Model for Weed Genomics. , 0, , 25-32.		3