

# Jonathan Gressel

## List of Publications by Year in descending order

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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	Transgenics are imperative for biofuel crops. <i>Plant Science</i> , 2008, 174, 246-263.	3.6	320
2	Inexpensive non-toxic flocculation of microalgae contradicts theories; overcoming a major hurdle to bulk algal production. <i>Biotechnology Advances</i> , 2012, 30, 1023-1030.	11.7	209
3	Modelling the Effectiveness of Herbicide Rotations and Mixtures as Strategies to Delay or Preclude Resistance. <i>Weed Technology</i> , 1990, 4, 186-198.	0.9	200
4	Major heretofore intractable biotic constraints to African food security that may be amenable to novel biotechnological solutions. <i>Crop Protection</i> , 2004, 23, 661-689.	2.1	183
5	Correlation between CuZn superoxide dismutase and glutathione reductase, and environmental and xenobiotic stress tolerance in maize inbreds. <i>Plant Science</i> , 1990, 69, 157-166.	3.6	175
6	Tandem constructs: preventing the rise of superweeds. <i>Trends in Biotechnology</i> , 1999, 17, 361-366.	9.3	156
7	Low pesticide rates may hasten the evolution of resistance by increasing mutation frequencies. <i>Pest Management Science</i> , 2011, 67, 253-257.	3.4	140
8	Are Herbicide mixtures useful for Delaying the Rapid Evolution of Resistance? a Case Study. <i>Weed Technology</i> , 1994, 8, 635-648.	0.9	121
9	Transgenic crops against parasites. <i>Nature</i> , 1995, 374, 220-221.	27.8	114
10	Multi-site, multi-season field tests demonstrate that herbicide seed-coating herbicide-resistance maize controls <i>Striga</i> spp. and increases yields in several African countries. <i>Crop Protection</i> , 2003, 22, 697-706.	2.1	109
11	Engineering hypervirulence in a mycoherbicidal fungus for efficient weed control. <i>Nature Biotechnology</i> , 2002, 20, 1035-1039.	17.5	103
12	Glyphosate Suppression of an Elicited Defense Response. <i>Plant Physiology</i> , 1992, 98, 654-659.	4.8	101
13	Weedy (Red) Rice. <i>Advances in Agronomy</i> , 2015, , 181-228.	5.2	96
14	Evolving understanding of the evolution of herbicide resistance. <i>Pest Management Science</i> , 2009, 65, 1164-1173.	3.4	93
15	A strategy to provide long-term control of weedy rice while mitigating herbicide resistance transgene flow, and its potential use for other crops with related weeds. <i>Pest Management Science</i> , 2009, 65, 723-731.	3.4	89
16	A revolving dose strategy to delay the evolution of both quantitative vs major monogene resistances to pesticides and drugs. <i>International Journal of Pest Management</i> , 1998, 44, 161-180.	1.8	86
17	Long-term dry preservation of viable mycelia of two mycoherbicidal organisms. <i>Crop Protection</i> , 1999, 18, 643-649.	2.1	74
18	Transient, oxidant-induced antioxidant transcript and enzyme levels correlate with greater oxidant-resistance in paraquat-resistant <i>Conyza bonariensis</i> . <i>Planta</i> , 2000, 211, 50-61.	3.2	71

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19	Transgenically Enhanced Expression of Indole-3-Acetic Acid Confers Hypervirulence to Plant Pathogens. <i>Phytopathology</i> , 2002, 92, 590-596.	2.2	70
20	Tandem constructs to mitigate transgene persistence: tobacco as a model. <i>Molecular Ecology</i> , 2004, 13, 697-710.	3.9	65
21	Control of parasitic witchweeds ( <i>Striga</i> spp.) on corn ( <i>Zea mays</i> ) resistant to acetolactate synthase inhibitors. <i>Weed Science</i> , 1998, 46, 459-466.	1.5	54
22	Imazapyr and pyrithiobac movement in soil and from maize seed coats to control <i>Striga</i> in legume intercropping. <i>Crop Protection</i> , 2002, 21, 611-619.	2.1	53
23	Agriculture: The selector of improbable mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12215-12216.	7.1	53
24	Imazapyr seed dressings for <i>Striga</i> control on acetolactate synthase target-site resistant maize. <i>Crop Protection</i> , 2001, 20, 885-895.	2.1	51
25	Sequence Evidence for Sporadic Intergeneric DNA Introgression from Wheat into a Wild <i>Aegilops</i> Species. <i>Molecular Biology and Evolution</i> , 2005, 22, 2055-2062.	8.9	51
26	Mitigation of establishment of <i>Brassica napus</i> transgenes in volunteers using a tandem construct containing a selectively unfit gene. <i>Plant Biotechnology Journal</i> , 2006, 4, 7-21.	8.3	50
27	CHARACTERIZATION OF THE <b>32</b>,000 DALTON MEMBRANE PROTEINâ€”I. EARLY SYNTHESIS DURING PHOTOINDUCED PLASTID DEVELOPMENT OF <i>SPIRODELA</i>. <i>Photochemistry and Photobiology</i> , 1978, 27, 161-165.	2.5	49
28	Crops with targetâ€”site herbicide resistance for <i>Orobanche</i> and <i>Striga</i> control. <i>Pest Management Science</i> , 2009, 65, 560-565.	3.4	48
29	Environmental risks of large scale cultivation of microalgae: Mitigation of spills. <i>Algal Research</i> , 2013, 2, 286-298.	4.6	46
30	Molecular biology of weed control. , 2000, 9, 355-382.		45
31	Potential failsafe mechanisms against the spread and introgression of transgenic hypervirulent biocontrol fungi. <i>Trends in Biotechnology</i> , 2001, 19, 149-154.	9.3	45
32	Mitigation using a tandem construct containing a selectively unfit gene precludes establishment of <i>Brassica napus</i> transgenes in hybrids and backcrosses with weedy <i>Brassica rapa</i> . <i>Plant Biotechnology Journal</i> , 2006, 4, 23-33.	8.3	45
33	Microbiome facilitated pest resistance: potential problems and uses. <i>Pest Management Science</i> , 2018, 74, 511-515.	3.4	45
34	Metabolism of lignin related aromatic compounds by <i>Aspergillus japonicus</i> . <i>Archives of Microbiology</i> , 1983, 135, 147-154.	2.2	44
35	Dealing with transgene flow of crop protection traits from crops to their relatives. <i>Pest Management Science</i> , 2015, 71, 658-667.	3.4	43
36	MASSIVE ACCUMULATION OF PHYTOENE INDUCED BY NORFLURAZON IN <i>DUNALIELLA BARDAWIL</i> (CHLOROPHYCEAE) PREVENTS RECOVERY FROM PHOTOINHIBITION<sup>1</sup>. <i>Journal of Phycology</i> , 1987, 23, 176-181.	2.3	42

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37	Perspective: present pesticide discovery paradigms promote the evolution of resistance – learn from nature and prioritize multi-target site inhibitor design. <i>Pest Management Science</i> , 2020, 76, 421-425.	3.4	42
38	Poor competitive fitness of transgenically mitigated tobacco in competition with the wild type in a replacement series. <i>Planta</i> , 2005, 222, 372-385.	3.2	40
39	Genetic load and transgenic mitigating genes in transgenic <i>Brassica rapa</i> (field mustard) – <i>Brassica napus</i> (oilseed rape) hybrid populations. <i>BMC Biotechnology</i> , 2009, 9, 93.	3.3	40
40	Isolation, Purification, and Identification of 2-(p-Hydroxyphenoxy)-5, 7-Dihydroxychromone: A Fungal-Induced Phytoalexin from <i>Cassia obtusifolia</i> . <i>Plant Physiology</i> , 1992, 98, 303-308.	4.8	38
41	Problems in qualifying and quantifying assumptions in plant protection models: Resultant simulations can be mistaken by a factor of million. <i>Crop Protection</i> , 2005, 24, 1007-1015.	2.1	38
42	Infection of Tubercles of the Parasitic Weed <i>Orobanche aegyptiaca</i> by Mycoherbicide <i>Fusarium</i> Species. <i>Annals of Botany</i> , 2002, 90, 567-578.	2.9	36
43	How well will stacked transgenic pest/herbicide resistances delay pests from evolving resistance?. <i>Pest Management Science</i> , 2017, 73, 22-34.	3.4	36
44	Let them eat (GM) straw. <i>Trends in Biotechnology</i> , 2003, 21, 525-530.	9.3	35
45	INDUCTION OF <i>Trichoderma</i> SPORULATION BY NANOSECOND LASER PULSES: EVIDENCE AGAINST CRYPTOCHROME CYCLING. <i>Photochemistry and Photobiology</i> , 1990, 51, 99-104.	2.5	31
46	Negative cross-resistance in triazine-resistant biotypes of <i>Echinochloa crus-galli</i> and <i>Conyza canadensis</i> . <i>Weed Science</i> , 2000, 48, 176-180.	1.5	31
47	Transformation of carrots with mutant acetolactate synthase for <i>Orobanche</i> (broomrape) control. <i>Pest Management Science</i> , 2002, 58, 1187-1193.	3.4	30
48	Appropriateness of biotechnology to African agriculture: <i>Striga</i> and maize as paradigms. <i>Plant Cell, Tissue and Organ Culture</i> , 2002, 69, 105-110.	2.3	30
49	Negative Cross Resistance; a Possible Key to Atrazine Resistance Management: A Call for Whole Plant Data. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1990, 45, 470-473.	1.4	26
50	Herbicide Applied to Imidazolinone Resistant-Maize Seed as a <i>Striga</i> Control Option for Small-Scale African Farmers. <i>Weed Science</i> , 2012, 60, 283-289.	1.5	26
51	Mode of Evolved Photooxidant Resistance to Herbicides and Xenobiotics. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1990, 45, 463-469.	1.4	25
52	Ultralow Calcium Requirements of Fungi Facilitate Use of Calcium Regulating Agents to Suppress Host Calcium-Dependent Defenses, Synergizing Infection by a Mycoherbicide. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 6353-6360.	5.2	25
53	Needs for and effectiveness of slow release herbicide seed treatment <i>Striga</i> control formulations for protection against early season crop phytotoxicity. <i>Crop Protection</i> , 2009, 28, 845-853.	2.1	25
54	Correlation of Glutathione Peroxidase to Paraquat/Oxidative Stress Resistance in <i>Conyza</i> Determined by Direct Fluorometric Assay. <i>Pesticide Biochemistry and Physiology</i> , 2000, 66, 182-194.	3.6	22

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55	Commentary: Hormesis can be used in enhancing plant productivity and health; but not as previously envisaged. <i>Plant Science</i> , 2013, 213, 123-127.	3.6	22
56	Suppressing aflatoxin biosynthesis is not a breakthrough if not useful. <i>Pest Management Science</i> , 2018, 74, 17-21.	3.4	22
57	LIGHT REQUIREMENTS FOR THE ENHANCED SYNTHESIS OF A PLASTID mRNA DURING SPIRODELA GREENING. <i>Photochemistry and Photobiology</i> , 1978, 27, 167-169.	2.5	21
58	Universal inheritable barcodes for identifying organisms. <i>Trends in Plant Science</i> , 2002, 7, 542-544.	8.8	20
59	Herbicides as Synergists for Mycoherbicides, and Vice Versa. <i>Weed Science</i> , 2010, 58, 324-328.	1.5	19
60	The Needs for New Herbicide-Resistant Crops. , 1992, , 283-294.		18
61	Hypothesis: Transgene establishment in wild relatives of wheat can be prevented by utilizing the Ph1 gene as a <i>senso stricto</i> chaperon to prevent homoeologous recombination. <i>Plant Science</i> , 2008, 175, 410-414.	3.6	17
62	Presence of the rapidly-labelled 32 000-dalton chloroplast membrane protein in triazine resistant biotypes. <i>FEBS Letters</i> , 1982, 140, 36-40.	2.8	16
63	Assessing and Managing Biological Risks of Plants Used for Bioremediation, Including Risks of Transgene Flow. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005, 60, 154-165.	1.4	16
64	The other, ignored HIV “highly invasive vegetation. <i>Food Security</i> , 2009, 1, 463-478.	5.3	16
65	Needs for and environmental risks from transgenic crops in the developing world. <i>New Biotechnology</i> , 2010, 27, 522-527.	4.4	15
66	Molecular Containment and Mitigation of Genes within Crops “Prevention of Gene Establishment in Volunteer Offspring and Feral Strains. , 2005, , 371-388.		14
67	Transforming a <i>NEP</i> 1 toxin gene into two <i>Fusarium</i> spp. to enhance mycoherbicide activity on <i>Orobanche</i> failure and success. <i>Pest Management Science</i> , 2009, 65, 588-595.	3.4	13
68	A Review of the Place of in vitro Cell Culture Systems in Studies of Action, Metabolism and Resistance of Biocides Affecting Photosynthesis. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1979, 34, 905-913.	1.4	12
69	Transgene Containment Using Cytokinin-Reversible Male Sterility in Constitutive, Gibberellic Acid “Insensitive ( <i>i</i> gai) Transgenic Tobacco. <i>Journal of Plant Growth Regulation</i> , 2005, 24, 19-27.	5.1	12
70	Cultivated microalgae spills: hard to predict/easier to mitigate risks. <i>Trends in Biotechnology</i> , 2014, 32, 65-69.	9.3	12
71	APPROACHES TO AND SUCCESSES IN DEVELOPING TRANSGENICALLY ENHANCED MYCOHERBICIDES. , 2007, , 297-305.		11
72	Use of Multicopy Transposons Bearing Unfitness Genes in Weed Control: Four Example Scenarios. <i>Plant Physiology</i> , 2014, 166, 1221-1231.	4.8	11

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73	RHYTHMS IN BLUE-LIGHT-INDUCED CONIDIATION OF WILD TYPE AND A MUTANT STRAIN OF <i>Trichoderma harzianum</i> . <i>Photochemistry and Photobiology</i> , 1988, 47, 425-431.	2.5	10
74	SUCCESS WITH THE LOW BIOTECH OF SEED-COATED IMIDAZOLINONE-RESISTANT MAIZE. , 2007, , 145-158.		10
75	Gene flow of transgenic seed-expressed traits: Biosafety considerations. <i>Plant Science</i> , 2010, 179, 630-634.	3.6	9
76	Overexpression of <i>epsps</i> transgene in weedy rice: insufficient evidence to support speculations about biosafety. <i>New Phytologist</i> , 2014, 202, 360-362.	7.3	9
77	FUSARIUM OXYSPORUM F. SP. STRIGA, ATHLETES FOOT OR ACHILLES HEEL?. , 2007, , 213-222.		8
78	MASSIVE ACCUMULATION OF PHYTOENE INDUCED BY NORFLURAZON IN <i>DUNALIELLA BARDAWIL</i> (CHLOROPHYCEAE) PREVENTS RECOVERY FROM PHOTOINHIBITION <sup>1</sup> . <i>Journal of Phycology</i> , 1987, 23, 176-181.	2.3	8
79	Genomics and Weeds: A Synthesis. , 0, , 221-247.		8
80	FAILSAFE MECHANISMS FOR PREVENTING GENE FLOW AND ORGANISM DISPERSAL OF ENHANCED MICROBIAL BIOCONTROL AGENTS. , 2007, , 353-362.		7
81	Fungal transformation of <i>Colletotrichum coccodes</i> with bacterial <i>oahA</i> to suppress defenses of <i>Abutilon theophrasti</i> . <i>Crop Protection</i> , 2009, 28, 749-755.	2.1	7
82	Perspective: Consider Removing 'Inherited' from Definitions of Pesticide Resistance. <i>Outlooks on Pest Management</i> , 2015, 26, 220-222.	0.2	7
83	Quantification of Infection by <i>Alternaria cassiae</i> Using Leaf Immunoautoradiography and Radioimmunosorbent Assays. <i>Journal of Phytopathology</i> , 1993, 138, 233-243.	1.0	6
84	Infertile interspecific hybrids between transgenically mitigated <i>Nicotiana tabacum</i> and <i>Nicotiana sylvestris</i> did not backcross to <i>N. sylvestris</i> . <i>Plant Science</i> , 2006, 170, 953-961.	3.6	6
85	Weed genomics advance: a commentary. <i>Pest Management Science</i> , 2010, 66, 1041-1041.	3.4	6
86	Containing and mitigating transgene flow from crops to weeds, to wild species, and to crops. , 2012, , 509-523.		5
87	Synergizing Pesticides To Reduce Use Rates. <i>ACS Symposium Series</i> , 1993, , 48-61.	0.5	4
88	Prevention Versus Remediation in Resistance Management. <i>ACS Symposium Series</i> , 1996, , 169-186.	0.5	4
89	Biotechnologies for Directly Generating Crops Resistant to Parasites. , 2013, , 433-458.		4
90	Transgenic Herbicide-Resistant Crops—Advantages, Drawbacks, and Failsafes. , 2002, , .		4

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91	A new approach to Striga control. <i>Outlooks on Pest Management</i> , 2003, 14, 51-53.	0.2	3
92	Assessing Risks and Containing or Mitigating Gene Flow of Transgenic and Non-transgenic Phytoremediating Plants. , 2006, , 259-284.		3
93	Catch 22: All Doses Select for Resistance. When Will This Happen and How To Slow Evolution?. <i>ACS Symposium Series</i> , 2017, , 61-72.	0.5	3
94	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
95	AN INTEGRATED APPROACH TO BIOLOGICAL CONTROL OF PLANT DISEASES AND WEEDS IN EUROPE. , 2006, , 257-274.		3
96	TRANSGENIC BIOCONTROL AGENTS TO OVERCOME EVOLUTIONARY BARRIERS. , 2007, , 313-323.		3
97	Perspective: It is time to consider new ways to attack unpesticidable (undruggable) target sites by designing peptide pesticides. <i>Pest Management Science</i> , 2022, 78, 2108-2112.	3.4	3
98	International Organization for Resistant Pest Management (IOPRM) - A Step Toward Rational Resistance Management Recommendations. <i>Weed Technology</i> , 1992, 6, 765-770.	0.9	2
99	Title is missing!. <i>Integrated Pest Management Reviews</i> , 2002, 7, 63-64.	0.1	2
100	Are integrated pest management (IPM) and resistance management synonymous or antagonistic?. <i>Pest Management Science</i> , 2015, 71, 329-330.	3.4	2
101	Direct evidence for the lack of methylation of two pulse labeled plant RNAs. <i>Plant and Cell Physiology</i> , 1974, , .	3.1	0
102	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.. <i>Weed Technology</i> , 1996, 10, 5-6.	0.9	0
103	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.. <i>Weed Technology</i> , 1997, 11, 633-634.	0.9	0
104	Transgenic marine algae for aquaculture: a coupled solution for protein sufficiency. , 0, , 233-246.		0