Emmanuel Guiderdoni

List of Publications by Year
in descending order

70 papers	5,791 citations	57758 44 h-index	91884 69 g-index
71 all docs	71 docs citations	71 times ranked	7286 citing authors

#	Article	IF	Citations
1	The genome of Theobroma cacao. Nature Genetics, 2011, 43, 101-108.	21.4	656
2	SALT-RESPONSIVE ERF1 Regulates Reactive Oxygen Species-Dependent Signaling during the Initial Response to Salt Stress in Rice. Plant Cell, 2013, 25, 2115-2131.	6.6	289
3	High throughput T-DNA insertion mutagenesis in rice: a first step towardsin silicoreverse genetics. Plant Journal, 2004, 39, 450-464.	5.7	231
4	Rice Mutant Resources for Gene Discovery. Plant Molecular Biology, 2004, 54, 325-334.	3.9	221
5	Complex Regulation of Two Target Genes Encoding SPX-MFS Proteins by Rice miR827 in Response to Phosphate Starvation. Plant and Cell Physiology, 2010, 51, 2119-2131.	3.1	188
6	Targeted promoter editing for rice resistance to <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> reveals differential activities for <i><scp>SWEET</scp>14</i>â€inducing <scp>TAL</scp> effectors. Plant Biotechnology Journal, 2017, 15, 306-317.	8.3	176
7	Diversity in Expression Patterns and Functional Properties in the Rice HKT Transporter Family Â. Plant Physiology, 2009, 150, 1955-1971.	4.8	175
8	Title is missing!. Molecular Breeding, 1997, 3, 105-113.	2.1	171
9	Mutant Resources in Rice for Functional Genomics of the Grasses. Plant Physiology, 2009, 149, 165-170.	4.8	167
10	Production of lowâ€Cs⁺ rice plants by inactivation of the K⁺ transporter Os<scp>HAK</scp>1 with the <scp>CRISPR</scp>â€Cas system. Plant Journal, 2017, 92, 43-56.	5.7	161
11	A Critical Role of Sodium Flux via the Plasma Membrane Na⁺/H⁺ Exchanger SOS1 in the Salt Tolerance of Rice. Plant Physiology, 2019, 180, 1046-1065.	4.8	149
12	Interaction between the<i>GROWTH-REGULATING FACTOR</i>and<i>KNOTTED1-LIKE HOMEOBOX</i>Families of Transcription Factors Â. Plant Physiology, 2014, 164, 1952-1966.	4.8	143
13	The halfâ€size ABC transporters STR1 and STR2 are indispensable for mycorrhizal arbuscule formation in rice. Plant Journal, 2012, 69, 906-920.	5.7	131
14	Unleashing meiotic crossovers in crops. Nature Plants, 2018, 4, 1010-1016.	9.3	110
15	Improved drought and salt stress tolerance in transgenic tobacco overexpressing a novel A20/AN1 zinc-finger â€œAlSAPâ€•gene isolated from the halophyte grass Aeluropus littoralis. Plant Molecular Biology, 2010, 72, 171-190.	3.9	109
16	Turning rice meiosis into mitosis. Cell Research, 2016, 26, 1242-1254.	12.0	103
17	The wheat durable, multipathogen resistance gene <i>Lr34</i> confers partial blast resistance in rice. Plant Biotechnology Journal, 2016, 14, 1261-1268.	8.3	98
18	Bt rice harbouring cry genes controlled by a constitutive or wound-inducible promoter: protection and transgene expression under Mediterranean field conditions. Plant Biotechnology Journal, 2004, 2, 417-430.	8.3	90

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19	Members of BTB gene family regulate negatively nitrate uptake and nitrogen use efficiency in Arabidopsis thaliana and Oryza sativa. Plant Physiology, 2016, 171, pp.01731.2015.	4.8	90
20	Transposon-mediated generation of T-DNA- and marker-free rice plants expressing a Bt endotoxin gene. Molecular Breeding, 2002, 10, 165-180.	2.1	87
21	Spatial control of transgene expression in rice (Oryza sativa L.) using the GAL4 enhancer trapping system. Plant Journal, 2005, 41, 779-789.	5.7	86
22	<i>OsWRKY22</i>, a monocot <i>WRKY</i> gene, plays a role in the resistance response to blast. Molecular Plant Pathology, 2012, 13, 828-841.	4.2	86
23	OsMADS26 negatively regulates resistance to pathogens and drought tolerance in rice.. Plant Physiology, 2015, 169, pp.01192.2015.	4.8	81
24	Expression of the maize proteinase inhibitor (mpi) gene in rice plants enhances resistance against the striped stem borer (Chilo suppressalis): effects on larval growth and insect gut proteinases. Plant Biotechnology Journal, 2005, 3, 187-202.	8.3	78
25	Regulation of Shoot and Root Development through Mutual Signaling. Molecular Plant, 2012, 5, 974-983.	8.3	78
26	EU-OSTID: A Collection of Transposon Insertional Mutants for Functional Genomics in Rice. Plant Molecular Biology, 2005, 59, 99-110.	3.9	77
27	<scp>MULTIPASS</scp>, a rice R2R3â€type <scp>MYB</scp> transcription factor, regulates adaptive growth by integrating multiple hormonal pathways. Plant Journal, 2013, 76, 258-273.	5.7	74
28	Inducible expression of a fusion gene encoding two proteinase inhibitors leads to insect and pathogen resistance in transgenic rice. Plant Biotechnology Journal, 2014, 12, 367-377.	8.3	73
29	Expression of the <i>Aeluropus littoralis AlSAP</i> gene in rice confers broad tolerance to abiotic stresses through maintenance of photosynthesis. Plant, Cell and Environment, 2012, 35, 626-643.	5.7	71
30	The distribution of T-DNA in the genomes of transgenic Arabidopsis and rice. FEBS Letters, 2000, 471, 161-164.	2.8	70
31	Rice genomics: Present and future. Plant Physiology and Biochemistry, 2001, 39, 323-334.	5.8	69
32	An in planta, Agrobacterium-mediated transient gene expression method for inducing gene silencing in rice (Oryza sativa L.) leaves. Rice, 2012, 5, 23.	4.0	69
33	Large-scale characterization of Tos17 insertion sites in a rice T-DNA mutant library. Plant Molecular Biology, 2007, 65, 587-601.	3.9	66
34	A Novel Two T-DNA Binary Vector Allows Efficient Generation of Marker-free Transgenic Plants in Three Elite Cultivars of Rice (Oryza sativa L.). Transgenic Research, 2004, 13, 271-287.	2.4	63
35	Transpositional landscape of the rice genome revealed by pairedâ€end mapping of highâ€throughput reâ€sequencing data. Plant Journal, 2011, 66, 241-246.	5.7	62
36	Identification of an active LTR retrotransposon in rice. Plant Journal, 2009, 58, 754-765.	5.7	60

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37	Analysis of the expression of the AGL17-like clade of MADS-box transcription factors in rice. Gene Expression Patterns, 2013, 13, 160-170.	0.8	60
38	Transposon Insertional Mutagenesis in Rice. Plant Physiology, 2001, 125, 1175-1177.	4.8	58
39	The roots of future rice harvests. Rice, 2014, 7, 29.	4.0	57
40	Cloning of a wheat puroindoline gene promoter by IPCR and analysis of promoter regions required for tissue-specific expression in transgenic rice seeds. Plant Molecular Biology, 1999, 39, 1101-1112.	3.9	56
41	SALT-RESPONSIVE ERF1 Is a Negative Regulator of Grain Filling and Gibberellin-Mediated Seedling Establishment in Rice. Molecular Plant, 2014, 7, 404-421.	8.3	55
42	International Consortium of Rice Mutagenesis: resources and beyond. Rice, 2013, 6, 39.	4.0	53
43	The polycomb group gene <i><scp>EMF</scp>2B</i> is essential for maintenance of floral meristem determinacy in rice. Plant Journal, 2014, 80, 883-894.	5.7	53
44	Cross Talk between the KNOX and Ethylene Pathways Is Mediated by Intron-Binding Transcription Factors in Barley Â Â. Plant Physiology, 2010, 154, 1616-1632.	4.8	51
45	Modulating Rice Stress Tolerance by Transcription Factors. Biotechnology and Genetic Engineering Reviews, 2008, 25, 381-404.	6.2	49
46	A potato carboxypeptidase inhibitor gene provides pathogen resistance in transgenic rice. Plant Biotechnology Journal, 2007, 5, 537-553.	8.3	45
47	The Triticum aestivum non-specific lipid transfer protein (TaLtp) gene family: comparative promoter activity of six TaLtp genes in transgenic rice. Planta, 2007, 225, 843-862.	3.2	44
48	Marker-free transgenic durum wheat cv. Karim expressing the AlSAP gene exhibits a high level of tolerance to salinity and dehydration stresses. Molecular Breeding, 2012, 30, 521-533.	2.1	44
49	A Dual Role for the OsK5.2 Ion Channel in Stomatal Movements and K⁺ Loading into Xylem Sap. Plant Physiology, 2017, 174, 2409-2418.	4.8	44
50	Identification of <scp>CROWN ROOTLESS</scp>1â€regulated genes in rice reveals specific and conserved elements of postembryonic root formation. New Phytologist, 2015, 206, 243-254.	7.3	43
51	Title is missing!. Molecular Breeding, 2001, 7, 259-274.	2.1	38
52	Promoter of the AlSAP gene from the halophyte grass Aeluropus littoralis directs developmental-regulated, stress-inducible, and organ-specific gene expression in transgenic tobacco. Transgenic Research, 2011, 20, 1003-1018.	2.4	38
53	The phenome analysis of mutant alleles in Leucine-Rich Repeat Receptor-Like Kinase genes in rice reveals new potential targets for stress tolerant cereals. Plant Science, 2016, 242, 240-249.	3.6	27
54	Enhancing gene targeting efficiency in higher plants: rice is on the move. Transgenic Research, 2005, 14, 1-14.	2.4	26

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55	Ectopic Expression of Aeluropus littoralis Plasma Membrane Protein Gene AlTMP1 Confers Abiotic Stress Tolerance in Transgenic Tobacco by Improving Water Status and Cation Homeostasis. International Journal of Molecular Sciences, 2017, 18, 692.	4.1	24
56	Overexpression of AlTMP2 gene from the halophyte grass Aeluropus littoralis in transgenic tobacco enhances tolerance to different abiotic stresses by improving membrane stability and deregulating some stress-related genes. Protoplasma, 2018, 255, 1161-1177.	2.1	24
57	Engineering meiotic recombination pathways in rice. Plant Biotechnology Journal, 2019, 17, 2062-2077.	8.3	23
58	Assessment of the roles of SPO11-2 and SPO11-4 in meiosis in rice using CRISPR/Cas9 mutagenesis. Journal of Experimental Botany, 2020, 71, 7046-7058.	4.8	22
59	Inâ€depth molecular and phenotypic characterization in a rice insertion line library facilitates gene identification through reverse and forward genetics approaches. Plant Biotechnology Journal, 2012, 10, 555-568.	8.3	20
60	Expression of the Aeluropus littoralis AlSAP Gene Enhances Rice Yield under Field Drought at the Reproductive Stage. Frontiers in Plant Science, 2017, 8, 994.	3.6	20
61	The promoter of the wheat puroindoline-a gene (PinA) exhibits a more complex pattern of activity than that of the PinB gene and is induced by wounding and pathogen attack in rice. Planta, 2006, 225, 287-300.	3.2	18
62	The promoter of the AlSAP gene from the halophyte grass Aeluropus littoralis directs a stress-inducible expression pattern in transgenic rice plants. Plant Cell Reports, 2015, 34, 1791-1806.	5.6	18
63	Bread wheat TaSPO11â€1 exhibits evolutionarily conserved function in meiotic recombination across distant plant species. Plant Journal, 2020, 103, 2052-2068.	5.7	14
64	Comparative histology of microprojectile-mediated gene transfer to embryogenic calli in japonica rice (Oryza sativa L.): influence of the structural organization of target tissues on genotype transformation ability. Plant Science, 1998, 138, 177-190.	3.6	11
65	Diversity of the Ty-1 copia retrotransposon Tos17 in rice (Oryza sativa L.) and the AA genome of the Oryza genus. Molecular Genetics and Genomics, 2009, 282, 633-652.	2.1	10
66	AlSRG1, a novel gene encoding an RRM-type RNA-binding protein (RBP) from Aeluropus littoralis, confers salt and drought tolerance in transgenic tobacco. Environmental and Experimental Botany, 2018, 150, 25-36.	4.2	10
67	Construction and characterization of a knock-down RNA interference line of <i>OsNRPD1</i> in rice () Tj ETQq1 1 0.784314 rgBT /Overl B: Biological Sciences, 2020, 375, 20190338.	4.0	8
68	Mutant Resources for Functional Analysis of the Rice Genome. , 2013, , 81-115.		6
69	Reverse Genetics in Rice Using Tos17. Methods in Molecular Biology, 2013, 1057, 205-221.	0.9	6
70	Manipulation of Meiotic Recombination to Hasten Crop Improvement. Biology, 2022, 11, 369.	2.8	6