Jorg D Becker

List of Publications by Year
in descending order

79	6,692	38	78
papers	citations	h-index	g-index

86	86	86	8118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Natural Products from Bryophytes: From Basic Biology to Biotechnological Applications. Critical Reviews in Plant Sciences, 2021, 40, 191-217.	5.7	33
2	A Histone-Like Nucleoid Structuring Protein Regulates Several Virulence Traits in Burkholderia multivorans. Applied and Environmental Microbiology, 2021, 87, e0036921.	3.1	1
3	Comparative transcriptomic analysis reveals conserved programmes underpinning organogenesis and reproduction in land plants. Nature Plants, 2021, 7, 1143-1159.	9.3	61
4	The 3D architecture and molecular foundations of de novo centriole assembly via bicentrioles. Current Biology, 2021, 31, 4340-4353.e7.	3.9	8
5	AtNOT1 is required for gametophyte development in Arabidopsis. Plant Journal, 2020, 103, 1289-1303.	5.7	7
6	Targeted reprogramming of H3K27me3 resets epigenetic memory in plant paternal chromatin. Nature Cell Biology, 2020, 22, 621-629.	10.3	149
7	Transcriptomics of Arabidopsis sperm cells at single-cell resolution. Plant Reproduction, 2019, 32, 29-38.	2.2	23
8	The poly(A) polymerase <scp>PAPS</scp>1 interacts with the <scp>RNA</scp>â€directed <scp>DNA</scp>â€methylation pathway in sporophyte and pollen development. Plant Journal, 2019, 99, 655-672.	5.7	12
9	Kingdom-wide comparison reveals the evolution of diurnal gene expression in Archaeplastida. Nature Communications, 2019, 10, 737.	12.8	52
10	Bloodâ€“brain barrier transport and neuroprotective potential of blackberry-digested polyphenols: an in vitro study. European Journal of Nutrition, 2019, 58, 113-130.	3.9	37
11	Comparative analysis of transcriptomic responses to sub-lethal levels of six environmentally relevant pesticides in Saccharomyces cerevisiae. Ecotoxicology, 2018, 27, 871-889.	2.4	12
12	The Trithorax group protein dMLL3/4 instructs the assembly of the zygotic genome at fertilization. EMBO Reports, 2018, 19, .	4.5	8
13	The OmpR Regulator of Burkholderia multivorans Controls Mucoid-to-Nonmucoid Transition and Other Cell Envelope Properties Associated with Persistence in the Cystic Fibrosis Lung. Journal of Bacteriology, 2018, 200, .	2.2	15
14	Phylogenomic analysis of gene coâ€expression networks reveals the evolution of functional modules. Plant Journal, 2017, 90, 447-465.	5.7	97
15	Low-dose ionizing radiation induces therapeutic neovascularization in a pre-clinical model of hindlimb ischemia. Cardiovascular Research, 2017, 113, 783-794.	3.8	24
16	Isolation of Arabidopsis Pollen, Sperm Cells, and Vegetative Nuclei by Fluorescence-Activated Cell Sorting (FACS). Methods in Molecular Biology, 2017, 1669, 193-210.	0.9	20
17	GLUTAMATE RECEPTOR-LIKE channels are essential for chemotaxis and reproduction in mosses. Nature, 2017, 549, 91-95.	27.8	111
18	Regulator LdhR and <scp>d</scp> -Lactate Dehydrogenase LdhA of Burkholderia multivorans Play Roles in Carbon Overflow and in Planktonic Cellular Aggregate Formation. Applied and Environmental Microbiology, 2017, 83, .	3.1	19

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19	Hydroxyproline <i>O</i>â€arabinosyltransferase mutants oppositely alter tip growth in <i>Arabidopsis thaliana</i> and <i>Physcomitrella patens</i>. Plant Journal, 2016, 85, 193-208.	5.7	40
20	Plant Evolution: What Does It Take To Be an Egg?. Current Biology, 2016, 26, R527-R530.	3.9	1
21	Transcriptomic comparison between two Vitis vinifera L. varieties (Trincadeira and Touriga Nacional) in abiotic stress conditions. BMC Plant Biology, 2016, 16, 224.	3.6	41
22	Early programming of the oocyte epigenome temporally controls late prophase I transcription and chromatin remodelling. Nature Communications, 2016, 7, 12331.	12.8	61
23	Transcriptomic and metabolomic profiling of ionic liquid stimuli unveils enhanced secondary metabolism in Aspergillus nidulans. BMC Genomics, 2016, 17, 284.	2.8	27
24	Assessment of fight outcome is needed to activate socially driven transcriptional changes in the zebrafish brain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E654-61.	7.1	76
25	A Transcriptome Atlas of Physcomitrella patens Provides Insights into the Evolution and Development of Land Plants. Molecular Plant, 2016, 9, 205-220.	8.3	197
26	Hyperosmotic stress memory in Arabidopsis is mediated by distinct epigenetically labile sites in the genome and is restricted in the male germline by DNA glycosylase activity. ELife, 2016, 5, .	6.0	282
27	Setting the Stage for the Next Generation: Epigenetic Reprogramming During Sexual Plant Reproduction. , 2015, , 93-118.		1
28	Intercellular communication in Arabidopsis thaliana pollen discovered via AHG3 transcript movement from the vegetative cell to sperm. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13378-13383.	7.1	21
29	Genome-Wide Analysis of PAPS1-Dependent Polyadenylation Identifies Novel Roles for Functionally Specialized Poly(A) Polymerases in Arabidopsis thaliana. PLoS Genetics, 2015, 11, e1005474.	3.5	17
30	Evolutionarily conserved mechanisms of male germline development in flowering plants and animals. Biochemical Society Transactions, 2014, 42, 377-382.	3.4	5
31	Potential Mechanisms Underlying Response to Effects of the Fungicide Pyrimethanil from Gene Expression Profiling in <i>Saccharomyces cerevisiae</i>. Journal of Agricultural and Food Chemistry, 2014, 62, 5237-5247.	5.2	19
32	The Sinorhizobium meliloti EmrR Regulator Is Required for Efficient Colonization of Medicago sativa Root Nodules. Molecular Plant-Microbe Interactions, 2014, 27, 388-399.	2.6	22
33	Elucidating how the saprophytic fungus Aspergillus nidulans uses the plant polyester suberin as carbon source. BMC Genomics, 2014, 15, 613.	2.8	27
34	Transcriptional profiling of Arabidopsis root hairs and pollen defines an apical cell growth signature. BMC Plant Biology, 2014, 14, 197.	3.6	49
35	Heat and water stress induce unique transcriptional signatures of heat-shock proteins and transcription factors in grapevine. Functional and Integrative Genomics, 2014, 14, 135-148.	3.5	65
36	V-ATPase Proton Pumping Activity Is Required for Adult Zebrafish Appendage Regeneration. PLoS ONE, 2014, 9, e92594.	2.5	33

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37	Transthyretin Proteins Regulate Angiogenesis by Conferring Different Molecular Identities to Endothelial Cells. Journal of Biological Chemistry, 2013, 288, 31752-31760.	3.4	32
38	Expression-based and co-localization detection of arabinogalactan protein 6 and arabinogalactan protein 11 interactors in Arabidopsis pollen and pollen tubes. BMC Plant Biology, 2013, 13, 7.	3.6	61
39	Comparative Transcriptomic Analysis of the Burkholderia cepacia Tyrosine Kinase bceF Mutant Reveals a Role in Tolerance to Stress, Biofilm Formation, and Virulence. Applied and Environmental Microbiology, 2013, 79, 3009-3020.	3.1	45
40	Arabidopsis Tetraspanins Are Confined to Discrete Expression Domains and Cell Types in Reproductive Tissues and Form Homo- and Heterodimers When Expressed in Yeast Â Â Â. Plant Physiology, 2013, 163, 696-712.	4.8	60
41	Cell- and Tissue-Specific Transcriptome Analyses of Medicago truncatula Root Nodules. PLoS ONE, 2013, 8, e64377.	2.5	86
42	LegumeGRN: A Gene Regulatory Network Prediction Server for Functional and Comparative Studies. PLoS ONE, 2013, 8, e67434.	2.5	37
43	Plant Genes Related to Gibberellin Biosynthesis and Signaling Are Differentially Regulated during the Early Stages of AM Fungal Interactions. Molecular Plant, 2012, 5, 951-954.	8.3	40
44	Reprogramming of DNA Methylation in Pollen Guides Epigenetic Inheritance via Small RNA. Cell, 2012, 151, 194-205.	28.9	506
45	FACS-based purification of Arabidopsis microspores, sperm cells and vegetative nuclei. Plant Methods, 2012, 8, 44.	4.3	76
46	Inhibition of Glutamine Synthetase by Phosphinothricin Leads to Transcriptome Reprograming in Root Nodules of <i>Medicago truncatula</i>. Molecular Plant-Microbe Interactions, 2012, 25, 976-992.	2.6	34
47	MicroRNA activity in the<i>Arabidopsis</i>male germline. Journal of Experimental Botany, 2011, 62, 1611-1620.	4.8	137
48	Role of tyrosine phosphorylation in the regulation of Burkholderia cell physiology. , 2011, , .		0
49	Identification and functional analysis of novel genes expressed in the Anterior Visceral Endoderm. International Journal of Developmental Biology, 2011, 55, 281-295.	0.6	19
50	Identification of differentially expressed genes in the heart precursor cells of the chick embryo. Gene Expression Patterns, 2011, 11, 437-447.	0.8	8
51	Transcriptional profiling in <i>Saccharomyces cerevisiae</i> relevant for predicting alachlor mechanisms of toxicity. Environmental Toxicology and Chemistry, 2011, 30, 2506-2518.	4.3	18
52	Mucoid morphotype variation of Burkholderia multivorans during chronic cystic fibrosis lung infection is correlated with changes in metabolism, motility, biofilm formation and virulence. Microbiology (United Kingdom), 2011, 157, 3124-3137.	1.8	52
53	Whole Genome Analysis of Gene Expression Reveals Coordinated Activation of Signaling and Metabolic Pathways during Pollen-Pistil Interactions in Arabidopsis Â Â. Plant Physiology, 2011, 155, 2066-2080.	4.8	78
54	Laser Microdissection Unravels Cell-Type-Specific Transcription in Arbuscular Mycorrhizal Roots, Including CAAT-Box Transcription Factor Gene Expression Correlating with Fungal Contact and Spread Â. Plant Physiology, 2011, 157, 2023-2043.	4.8	195

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55	A genome-wide survey of sRNAs in the symbiotic nitrogen-fixing alpha-proteobacterium Sinorhizobium meliloti. BMC Genomics, 2010, 11, 245.	2.8	104
56	Absence of functional TolC protein causes increased stress response gene expression in Sinorhizobium meliloti. BMC Microbiology, 2010, 10, 180.	3.3	34
57	Genomic Expression Program Involving the Haa1p-Regulon in<i>Saccharomyces cerevisiae</i>Response to Acetic Acid. OMICS A Journal of Integrative Biology, 2010, 14, 587-601.	2.0	125
58	Transcriptomic Profiling of the<i>Saccharomyces cerevisiae</i>Response to Quinine Reveals a Glucose Limitation Response Attributable to Drug-Induced Inhibition of Glucose Uptake. Antimicrobial Agents and Chemotherapy, 2009, 53, 5213-5223.	3.2	21
59	The RIM101 pathway has a role in<i>Saccharomyces cerevisiae</i>adaptive response and resistance to propionic acid and other weak acids. FEMS Yeast Research, 2009, 9, 202-216.	2.3	81
60	Epigenetic Reprogramming and Small RNA Silencing of Transposable Elements in Pollen. Cell, 2009, 136, 461-472.	28.9	908
61	Comparative Transcriptomics of Arabidopsis Sperm Cells Â. Plant Physiology, 2008, 148, 1168-1181.	4.8	339
62	Overexpression of delta-like 4 induces arterialization and attenuates vessel formation in developing mouse embryos. Blood, 2008, 112, 1720-1729.	1.4	118
63	How Many Genes are Needed to Make a Pollen Tube? Lessons from Transcriptomics. Annals of Botany, 2007, 100, 1117-1123.	2.9	47
64	Genetic subtraction profiling identifies genes essential for Arabidopsis reproduction and reveals interaction between the female gametophyte and the maternal sporophyte. Genome Biology, 2007, 8, R204.	9.6	122
65	Early transcriptional response of Saccharomyces cerevisiae to stress imposed by the herbicide 2,4-dichlorophenoxyacetic acid. FEMS Yeast Research, 2006, 6, 230-248.	2.3	56
66	Effects of Delta1 and Jagged1 on Early Human Hematopoiesis: Correlation with Expression of Notch Signalingâ€Related Genes in CD34 ⁺ Cells. Stem Cells, 2006, 24, 1328-1337.	3.2	43
67	BOLITA, an Arabidopsis AP2/ERF-like transcription factor that affects cell expansion and proliferation/differentiation pathways. Plant Molecular Biology, 2006, 62, 825-843.	3.9	85
68	The making of gametes in higher plants. International Journal of Developmental Biology, 2005, 49, 595-614.	0.6	95
69	Gametophyte interaction and sexual reproduction: how plants make a zygote. International Journal of Developmental Biology, 2005, 49, 615-632.	0.6	78
70	Gene Family Analysis of the Arabidopsis Pollen Transcriptome Reveals Biological Implications for Cell Growth, Division Control, and Gene Expression Regulation. Plant Physiology, 2005, 138, 744-756.	4.8	461
71	A dynamic balance between gene activation and repression regulates the shade avoidance response in Arabidopsis. Genes and Development, 2005, 19, 2811-2815.	5.9	224
72	Signalling by tips. Current Opinion in Plant Biology, 2004, 7, 589-598.	7.1	103

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73	Transcriptional Profiling of Arabidopsis Tissues Reveals the Unique Characteristics of the Pollen Transcriptome. Plant Physiology, 2003, 133, 713-725.	4.8	365
74	Characterization of NVf32: a narbonin-like nodulin of high abundance in Vicia faba L. Plant Science, 2002, 162, 401-411.	3.6	2
75	The nodulin vfENOD18 is an ATP-binding protein in infected cells of Vicia faba L. nodules. Plant Molecular Biology, 2001, 47, 749-759.	3.9	16
76	The broad bean nodulin VfENOD18 is a member of a novel family of plant proteins with homologies to the bacterial MJ0577 superfamily. Molecular Genetics and Genomics, 2000, 264, 241-250.	2.1	25
77	The Sinorhizobium meliloti ExpE1 protein secreted by a type I secretion system involving ExpD1 and ExpD2 is required for biosynthesis or secretion of the exopolysaccharide galactoglucan. Microbiology (United Kingdom), 2000, 146, 2237-2248.	1.8	22
78	Genomic organization and expression properties of the MtSucS1 gene, which encodes a nodule-enhanced sucrose synthase in the model legume Medicago truncatula. Molecular Genetics and Genomics, 1999, 261, 514-522.	2.4	42
79	The 3D Architecture and Molecular Foundations of <i>De Novo</i> Centriole Assembly <i>Via</i> Bicentrioles. SSRN Electronic Journal, 0, , .	0.4	0