

Gloria M Coruzzi

List of Publications by Year in descending order

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135
papers

13,624
citations

17405

63
h-index

22764

112
g-index

146
all docs

146
docs citations

146
times ranked

11006
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified nomenclature of NITRATE TRANSPORTER 1/PEPTIDE TRANSPORTER family members in plants. <i>Trends in Plant Science</i> , 2014, 19, 5-9.	4.3	581
2	Cell-specific nitrogen responses mediate developmental plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 803-808.	3.3	557
3	Nitrate-responsive miR393/ <i>AtAFB3</i> regulatory module controls root system architecture in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4477-4482.	3.3	556
4	Nitrate Transport, Sensing, and Responses in Plants. <i>Molecular Plant</i> , 2016, 9, 837-856.	3.9	427
5	Genomic Analysis of the Nitrate Response Using a Nitrate Reductase-Null Mutant of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2004, 136, 2512-2522.	2.3	396
6	Carbon and nitrogen sensing and signaling in plants: emerging "matrix effects"™. <i>Current Opinion in Plant Biology</i> , 2001, 4, 247-253.	3.5	386
7	Systems approach identifies an organic nitrogen-responsive gene network that is regulated by the master clock control gene <i>CCA1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4939-4944.	3.3	333
8	Nitrogen economics of root foraging: Transitive closure of the nitrate-cytokinin relay and distinct systemic signaling for N supply vs. demand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18524-18529.	3.3	333
9	Glutamate-receptor genes in plants. <i>Nature</i> , 1998, 396, 125-126.	13.7	328
10	Nitrate signaling: adaptation to fluctuating environments. <i>Current Opinion in Plant Biology</i> , 2010, 13, 265-272.	3.5	319
11	Nitrogen and Carbon Nutrient and Metabolite Signaling in Plants. <i>Plant Physiology</i> , 2001, 125, 61-64.	2.3	316
12	Qualitative network models and genome-wide expression data define carbon/nitrogen-responsive molecular machines in <i>Arabidopsis</i> . <i>Genome Biology</i> , 2007, 8, R7.	13.9	289
13	A framework integrating plant growth with hormones and nutrients. <i>Trends in Plant Science</i> , 2011, 16, 178-182.	4.3	255
14	VirtualPlant: A Software Platform to Support Systems Biology Research. <i>Plant Physiology</i> , 2010, 152, 500-515.	2.3	254
15	Use of <i>Arabidopsis</i> mutants and genes to study amide amino acid biosynthesis. <i>Plant Cell</i> , 1995, 7, 887-898.	3.1	249
16	Predictive network modeling of the high-resolution dynamic plant transcriptome in response to nitrate. <i>Genome Biology</i> , 2010, 11, R123.	13.9	241
17	Overexpression of Cytosolic Glutamine Synthetase. Relation to Nitrogen, Light, and Photorespiration. <i>Plant Physiology</i> , 2002, 129, 1170-1180.	2.3	239
18	A PII-like protein in <i>Arabidopsis</i> : Putative role in nitrogen sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 13965-13970.	3.3	236

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19	Comparative Phylogenomics Uncovers the Impact of Symbiotic Associations on Host Genome Evolution. <i>PLoS Genetics</i> , 2014, 10, e1004487.	1.5	229
20	Metabolic Regulation of the Gene Encoding Glutamine-Dependent Asparagine Synthetase in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 1994, 106, 1347-1357.	2.3	228
21	Reciprocal regulation of distinct asparagine synthetase genes by light and metabolites in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 1998, 16, 345-353.	2.8	217
22	<i>Arabidopsis</i> mutant analysis and gene regulation define a nonredundant role for glutamate dehydrogenase in nitrogen assimilation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 4718-4723.	3.3	214
23	<i>Arabidopsis</i> gls Mutants and Distinct Fd-GOGAT Genes: Implications for Photorespiration and Primary Nitrogen Assimilation. <i>Plant Cell</i> , 1998, 10, 741-752.	3.1	203
24	Nitrate in 2020: Thirty Years from Transport to Signaling Networks. <i>Plant Cell</i> , 2020, 32, 2094-2119.	3.1	203
25	Carbon and Amino Acids Reciprocally Modulate the Expression of Glutamine Synthetase in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 1999, 121, 301-310.	2.3	202
26	AtNIGT1/HRS1 integrates nitrate and phosphate signals at the <i>Arabidopsis</i> root tip. <i>Nature Communications</i> , 2015, 6, 6274.	5.8	195
27	Overexpression of the ASN1 Gene Enhances Nitrogen Status in Seeds of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2003, 132, 926-935.	2.3	193
28	Molecular evolution of glutamate receptors: a primitive signaling mechanism that existed before plants and animals diverged. <i>Molecular Biology and Evolution</i> , 1999, 16, 826-838.	3.5	185
29	The Identity of Plant Glutamate Receptors. <i>Science</i> , 2001, 292, 1486b-1487.	6.0	175
30	Phylogenetic and Expression Analysis of the Glutamate-Receptor-Like Gene Family in <i>Arabidopsis thaliana</i> . <i>Molecular Biology and Evolution</i> , 2002, 19, 1066-1082.	3.5	167
31	Genome-wide patterns of carbon and nitrogen regulation of gene expression validate the combined carbon and nitrogen (CN)-signaling hypothesis in plants. <i>Genome Biology</i> , 2004, 5, R91.	13.9	157
32	Hit-and-run transcriptional control by bZIP1 mediates rapid nutrient signaling in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10371-10376.	3.3	154
33	Temporal transcriptional logic of dynamic regulatory networks underlying nitrogen signaling and use in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6494-6499.	3.3	150
34	A Functional Phylogenomic View of the Seed Plants. <i>PLoS Genetics</i> , 2011, 7, e1002411.	1.5	134
35	Gene regulatory networks in plants: learning causality from time and perturbation. <i>Genome Biology</i> , 2013, 14, 123.	3.8	115
36	The aspartate aminotransferase gene family of <i>Arabidopsis</i> encodes isoenzymes localized to three distinct subcellular compartments. <i>Plant Journal</i> , 1995, 7, 61-75.	2.8	111

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37	Arabidopsisglt1-T mutant defines a role for NADH-GOGAT in the non-photorespiratory ammonium assimilatory pathway. <i>Plant Journal</i> , 2002, 29, 347-358.	2.8	108
38	HIGH NITROGEN INSENSITIVE 9 (HNI9)-mediated systemic repression of root NO ₃ ⁻ uptake is associated with changes in histone methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13329-13334.	3.3	108
39	Expression dynamics of the pea rbcS multigene family and organ distribution of the transcripts. <i>EMBO Journal</i> , 1986, 5, 2063-2071.	3.5	107
40	Correlation of ASN2 Gene Expression with Ammonium Metabolism in Arabidopsis. <i>Plant Physiology</i> , 2004, 134, 332-338.	2.3	105
41	Transient genome-wide interactions of the master transcription factor NLP7 initiate a rapid nitrogen-response cascade. <i>Nature Communications</i> , 2020, 11, 1157.	5.8	99
42	Integration of responses within and across <i>Arabidopsis</i> natural accessions uncovers loci controlling root systems architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15133-15138.	3.3	93
43	Molecular biology of C4 photosynthesis in <i>Zea mays</i> : differential localization of proteins and mRNAs in the two leaf cell types. <i>Plant Molecular Biology</i> , 1984, 3, 431-444.	2.0	92
44	Network Walking charts transcriptional dynamics of nitrogen signaling by integrating validated and predicted genome-wide interactions. <i>Nature Communications</i> , 2019, 10, 1569.	5.8	92
45	The histone methyltransferase SDG8 mediates the epigenetic modification of light and carbon responsive genes in plants. <i>Genome Biology</i> , 2015, 16, 79.	3.8	91
46	OrthologID: automation of genome-scale ortholog identification within a parsimony framework. <i>Bioinformatics</i> , 2006, 22, 699-707.	1.8	89
47	Primary N-assimilation into Amino Acids in Arabidopsis. <i>The Arabidopsis Book</i> , 2003, 2, e0010.	0.5	88
48	Arabidopsis Mutants Resistant to S(+)- β -Methyl- β , β -Diaminopropionic Acid, a Cycad-Derived Glutamate Receptor Agonist. <i>Plant Physiology</i> , 2000, 124, 1615-1624.	2.3	87
49	Systems Biology for the Virtual Plant: Figure 1.. <i>Plant Physiology</i> , 2005, 138, 550-554.	2.3	82
50	Ectopic Overexpression of Asparagine Synthetase in Transgenic Tobacco. <i>Plant Physiology</i> , 1993, 103, 1285-1290.	2.3	81
51	Combinatorial interaction network of transcriptomic and phenotypic responses to nitrogen and hormones in the <i>Arabidopsis thaliana</i> root. <i>Science Signaling</i> , 2016, 9, rs13.	1.6	81
52	Glutamine Synthetase of <i>Nicotiana plumbaginifolia</i> . <i>Plant Physiology</i> , 1987, 84, 366-373.	2.3	79
53	Light- and Carbon-Signaling Pathways. <i>Modeling Circuits of Interactions</i> . <i>Plant Physiology</i> , 2003, 132, 440-452.	2.3	76
54	Plasticity Regulators Modulate Specific Root Traits in Discrete Nitrogen Environments. <i>PLoS Genetics</i> , 2013, 9, e1003760.	1.5	76

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55	Integrated RNA-seq and sRNA-seq analysis identifies novel nitrate-responsive genes in <i>Arabidopsis thaliana</i> roots. <i>BMC Genomics</i> , 2013, 14, 701.	1.2	76
56	Expressed sequence tag analysis in <i>Cycas</i> , the most primitive living seed plant. <i>Genome Biology</i> , 2003, 4, R78.	13.9	74
57	TARGET: A Transient Transformation System for Genome-Wide Transcription Factor Target Discovery. <i>Molecular Plant</i> , 2013, 6, 978-980.	3.9	73
58	<i>Arabidopsis</i> Mutants Define an in Vivo Role for Isoenzymes of Aspartate Aminotransferase in Plant Nitrogen Assimilation. <i>Genetics</i> , 1998, 149, 491-499.	1.2	73
59	Developmentally Regulated Expression of the Gene Family for Cytosolic Glutamine Synthetase in <i>Pisum sativum</i> . <i>Plant Physiology</i> , 1989, 91, 702-708.	2.3	71
60	Genome-wide investigation of light and carbon signaling interactions in <i>Arabidopsis</i> . <i>Genome Biology</i> , 2004, 5, R10.	13.9	71
61	Insights into the genomic nitrate response using genetics and the SunGear Software System. <i>Journal of Experimental Botany</i> , 2007, 58, 2359-2367.	2.4	71
62	A promoter sequence involved in cell-specific expression of the pea glutamine synthetaseGS3A gene in organs of transgenic tobacco and alfalfa. <i>Plant Journal</i> , 1991, 1, 235-244.	2.8	69
63	Modeling the global effect of the basic-leucine zipper transcription factor 1 (bZIP1) on nitrogen and light regulation in <i>Arabidopsis</i> . <i>BMC Systems Biology</i> , 2010, 4, 111.	3.0	69
64	Molecular and Physiological Analysis of <i>Arabidopsis</i> Mutants Defective in Cytosolic or Chloroplastic Aspartate Aminotransferase. <i>Plant Physiology</i> , 2002, 129, 650-660.	2.3	65
65	A Systems Approach Uncovers Restrictions for Signal Interactions Regulating Genome-wide Responses to Nutritional Cues in <i>Arabidopsis</i> . <i>PLoS Computational Biology</i> , 2009, 5, e1000326.	1.5	64
66	cis Elements and trans-Acting Factors Affecting Regulation of a Nonphotosynthetic Light-Regulated Gene for Chloroplast Glutamine Synthetase. <i>Plant Physiology</i> , 1995, 108, 1109-1117.	2.3	60
67	RootScape: A Landmark-Based System for Rapid Screening of Root Architecture in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 161, 1086-1096.	2.3	59
68	A matter of time – How transient transcription factor interactions create dynamic gene regulatory networks. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017, 1860, 75-83.	0.9	58
69	Long-distance nitrate signaling displays cytokinin dependent and independent branches. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 226-229.	4.1	57
70	An integrated genetic, genomic and systems approach defines gene networks regulated by the interaction of light and carbon signaling pathways in <i>Arabidopsis</i> . <i>BMC Systems Biology</i> , 2008, 2, 31.	3.0	55
71	The Impact of Outgroup Choice and Missing Data on Major Seed Plant Phylogenetics Using Genome-Wide EST Data. <i>PLoS ONE</i> , 2009, 4, e5764.	1.1	54
72	A balancing act: how plants integrate nitrogen and water signals. <i>Journal of Experimental Botany</i> , 2020, 71, 4442-4451.	2.4	53

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73	Using Combinatorial Design to Study Regulation by Multiple Input Signals. A Tool for Parsimony in the Post-Genomics Era. <i>Plant Physiology</i> , 2001, 127, 1590-1594.	2.3	52
74	Cross-Species Network Analysis Uncovers Conserved Nitrogen-Regulated Network Modules in Rice. <i>Plant Physiology</i> , 2015, 168, 1830-1843.	2.3	50
75	Changes in Gene Expression in Space and Time Orchestrate Environmentally Mediated Shaping of Root Architecture. <i>Plant Cell</i> , 2017, 29, 2393-2412.	3.1	49
76	A system biology approach highlights a hormonal enhancer effect on regulation of genes in a nitrate responsive "biomodule". <i>BMC Systems Biology</i> , 2009, 3, 59.	3.0	48
77	Evolutionarily informed machine learning enhances the power of predictive gene-to-phenotype relationships. <i>Nature Communications</i> , 2021, 12, 5627.	5.8	48
78	Transfer RNA genes in the cap-oxil region of yeast mitochondrial DNA. <i>Nucleic Acids Research</i> , 1980, 8, 5017-5030.	6.5	42
79	Nutrient dose-responsive transcriptome changes driven by Michaelis-Menten kinetics underlie plant growth rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12531-12540.	3.3	38
80	Light-induced transcriptional repression of the pea AS1 gene: identification of cis-elements and transactors. <i>Plant Journal</i> , 1997, 12, 1021-1034.	2.8	36
81	Finding a nitrogen niche: a systems integration of local and systemic nitrogen signalling in plants. <i>Journal of Experimental Botany</i> , 2014, 65, 5601-5610.	2.4	36
82	Arabidopsis SDG8 Potentiates the Sustainable Transcriptional Induction of the Pathogenesis-Related Genes PR1 and PR2 During Plant Defense Response. <i>Frontiers in Plant Science</i> , 2020, 11, 277.	1.7	36
83	Assembly of the Mitochondrial Membrane System: Mutations in the <i>pho2</i> Locus of the Mitochondrial Genome of <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 1978, 92, 279-287.	0.2	35
84	Sungear: interactive visualization and functional analysis of genomic datasets. <i>Bioinformatics</i> , 2007, 23, 259-261.	1.8	35
85	Plant ecological genomics at the limits of life in the Atacama Desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	35
86	EST analysis in <i>Ginkgo biloba</i> : an assessment of conserved developmental regulators and gymnosperm specific genes. <i>BMC Genomics</i> , 2005, 6, 143.	1.2	34
87	A Systems View of Responses to Nutritional Cues in Arabidopsis: Toward a Paradigm Shift for Predictive Network Modeling. <i>Plant Physiology</i> , 2010, 152, 445-452.	2.3	34
88	ESTimating plant phylogeny: lessons from partitioning. <i>BMC Evolutionary Biology</i> , 2006, 6, 48.	3.2	31
89	Automated simultaneous analysis phylogenetics (ASAP): an enabling tool for phylogenomics. <i>BMC Bioinformatics</i> , 2008, 9, 103.	1.2	30
90	SDG8-Mediated Histone Methylation and RNA Processing Function in the Response to Nitrate Signaling. <i>Plant Physiology</i> , 2020, 182, 215-227.	2.3	30

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91	Photorespiration and Light Act in Concert to Regulate the Expression of the Nuclear Gene for Chloroplast Glutamine Synthetase. <i>Plant Cell</i> , 1989, 1, 241.	3.1	29
92	Using Phylogenomic Patterns and Gene Ontology to Identify Proteins of Importance in Plant Evolution. <i>Genome Biology and Evolution</i> , 2010, 2, 225-239.	1.1	27
93	GARP transcription factors repress Arabidopsis nitrogen starvation response via ROS-dependent and -independent pathways. <i>Journal of Experimental Botany</i> , 2021, 72, 3881-3901.	2.4	27
94	ConnectTF: A platform to integrate transcription factor-gene interactions and validate regulatory networks. <i>Plant Physiology</i> , 2021, 185, 49-66.	2.3	27
95	From milliseconds to lifetimes: tracking the dynamic behavior of transcription factors in gene networks. <i>Trends in Genetics</i> , 2015, 31, 509-515.	2.9	26
96	Arabidopsis gls Mutants and Distinct Fd-GOGAT Genes: Implications for Photorespiration and Primary Nitrogen Assimilation. <i>Plant Cell</i> , 1998, 10, 741.	3.1	24
97	[9] The isolation of mitochondrial and nuclear mutants of <i>Saccharomyces cerevisiae</i> with specific defects in mitochondrial functions. <i>Methods in Enzymology</i> , 1979, 56, 95-106.	0.4	23
98	Plant Systems Biology. <i>Plant Physiology</i> , 2003, 132, 403-403.	2.3	23
99	“Hit-and-Run” transcription: de novo transcription initiated by a transient bZIP1 “hit” persists after the “run”. <i>BMC Genomics</i> , 2016, 17, 92.	1.2	22
100	WRKY1 Mediates Transcriptional Regulation of Light and Nitrogen Signaling Pathways. <i>Plant Physiology</i> , 2019, 181, 1371-1388.	2.3	22
101	“Hit-and-Run” leaves its mark: Catalyst transcription factors and chromatin modification. <i>BioEssays</i> , 2015, 37, 851-856.	1.2	20
102	Water impacts nutrient dose responses genome-wide to affect crop production. <i>Nature Communications</i> , 2019, 10, 1374.	5.8	19
103	A mutation in the Proteosomal Regulatory Particle AAA-ATPase-3 in Arabidopsis impairs the light-specific hypocotyl elongation response elicited by a glutamate receptor agonist, BMAA. <i>Plant Molecular Biology</i> , 2009, 70, 523-533.	2.0	17
104	Spatiotemporal analysis identifies ABF2 and ABF3 as key hubs of endodermal response to nitrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
105	Time-Based Systems Biology Approaches to Capture and Model Dynamic Gene Regulatory Networks. <i>Annual Review of Plant Biology</i> , 2021, 72, 105-131.	8.6	16
106	Achieving the in silico plant. Systems biology and the future of plant biological research. <i>Plant Physiology</i> , 2003, 132, 404-9.	2.3	15
107	Molecular evolution of duplicate copies of genes encoding cytosolic glutamine synthetase in <i>Pisum sativum</i> . <i>Plant Molecular Biology</i> , 1995, 29, 1111-1125.	2.0	14
108	A Novel AT-Rich DNA Binding Protein That Combines an HMG I-Like DNA Binding Domain with a Putative Transcription Domain. <i>Plant Cell</i> , 1994, 6, 107.	3.1	13

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109	Current status of the multinational Arabidopsis community. <i>Plant Direct</i> , 2020, 4, e00248.	0.8	13
110	OutPredict: multiple datasets can improve prediction of expression and inference of causality. <i>Scientific Reports</i> , 2020, 10, 6804.	1.6	13
111	ChIP-Seq for Genome-Wide Mapping of In Vivo TF-DNA Interactions in Arabidopsis Root Protoplasts. <i>Methods in Molecular Biology</i> , 2018, 1761, 249-261.	0.4	11
112	2020 Vision for Biology: The Role of Plants in Addressing Grand Challenges in Biology. <i>Molecular Plant</i> , 2008, 1, 561-563.	3.9	8
113	Perspectives on Ecological and Evolutionary Systems Biology. , 0, , 331-349.		8
114	The biology of time: dynamic responses of cell types to developmental, circadian, and environmental cues. <i>Plant Journal</i> , 2021, , .	2.8	8
115	ASSEMBLY OF THE MITOCHONDRIAL MEMBRANE SYSTEM: NUCLEAR SUPPRESSION OF A CYTOCHROME b MUTATION IN YEAST MITOCHONDRIAL DNA. <i>Genetics</i> , 1980, 95, 891-903.	1.2	7
116	Systems Biology: Principles and Applications in Plant Research. , 0, , 1-40.		6
117	iPlant Systems Biology (iPSB): An International Network Hub in the Plant Community. <i>Molecular Plant</i> , 2019, 12, 727-730.	3.9	5
118	The Plant Genome: Decoding the Transcriptional Hardwiring. , 0, , 196-228.		4
119	In Silico Evaluation of Predicted Regulatory Interactions in Arabidopsis thaliana. <i>BMC Bioinformatics</i> , 2009, 10, 435.	1.2	3
120	Gene Orthology Assessment with OrthologID. <i>Methods in Molecular Biology</i> , 2009, 537, 23-38.	0.4	2
121	Dissecting Light Repression of the Asparagine Synthetase gene (AS1) in Arabidopsis. , 1998, , 147-157.		2
122	Use of Arabidopsis Mutants and Genes to Study Amide Amino Acid Biosynthesis. <i>Plant Cell</i> , 1995, 7, 887.	3.1	1
123	Metabolomics: Integrating the Metabolome and the Proteome for Systems Biology. , 0, , 258-289.		1
124	An Overview of Systems Biology. , 0, , 41-66.		1
125	Prokaryotic Systems Biology. , 0, , 67-136.		1
126	Appointments and awards. <i>Plant Molecular Biology Reporter</i> , 1992, 10, 4-4.	1.0	0

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127	A Crucial Role for the NSF Postdoctoral Fellowship Program in Plant Biology. <i>Plant Cell</i> , 1993, 5, 722.	3.1	0
128	Analysis of Glutamate Receptor Genes in Plants: Progress and Prospects. , 2005, , 245-255.		0
129	Animal Systems Biology: Towards a Systems View of Development in <i>C. Elegans</i> . , 0, , 137-165.		0
130	The 4th Dimension of Transcriptional Networks: TIME. <i>FASEB Journal</i> , 2019, 33, 343.1.	0.2	0
131	From the Ionome to the Genome: Identifying the Gene Networks that Control the Mineral Content of Plants. , 0, , 290-303.		0
132	Development and Systems Biology: Riding the Genomics Wave towards a Systems Understanding of Root Development. , 0, , 304-330.		0
133	Software Tools for Systems Biology: Visualizing the Outcomes of N Experiments on M Entities. , 0, , 167-195.		0
134	The RNA World: Identifying miRNA-Target RNA Pairs as Possible Missing Links in Multi-Network Models. , 0, , 229-242.		0
135	Proteomics: Setting the Stage for Systems Biology. , 0, , 243-257.		0