Charles Spillane

List of Publications by Year in descending order

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116	6,715	38 h-index	78
papers	citations		g-index
125	125	125	8710 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Draft genome sequence of pigeonpea (Cajanus cajan), an orphan legume crop of resource-poor farmers. Nature Biotechnology, 2012, 30, 83-89.	9.4	788
2	<i>miR-21</i> as a key regulator of oncogenic processes. Biochemical Society Transactions, 2009, 37, 918-925.	1.6	415
3	The Polycomb-group protein MEDEA regulates seed development by controlling expression of the MADS-box gene PHERES1. Genes and Development, 2003, 17, 1540-1553.	2.7	390
4	Maintenance of genomic imprinting at the Arabidopsis medea locus requires zygotic DDM1 activity. Genes and Development, 1999, 13, 2971-2982.	2.7	313
5	The emerging biofuel crop Camelina sativa retains a highly undifferentiated hexaploid genome structure. Nature Communications, 2014, 5, 3706.	5.8	295
6	High-Resolution Analysis of Parent-of-Origin Allelic Expression in the Arabidopsis Endosperm. PLoS Genetics, 2011, 7, e1002126.	1.5	237
7	Epigenetic Mechanisms Underlying Genomic Imprinting in Plants. Annual Review of Plant Biology, 2012, 63, 331-352.	8.6	196
8	Genome sequencing of the extinct Eurasian wild aurochs, Bos primigenius, illuminates the phylogeography and evolution of cattle. Genome Biology, 2015, 16, 234.	3.8	178
9	MicroRNA-9 Inhibition of Cell Proliferation and Identification of Novel miR-9 Targets by Transcriptome Profiling in Breast Cancer Cells. Journal of Biological Chemistry, 2012, 287, 29516-29528.	1.6	170
10	Apomixis technology developmentâ€"virgin births in farmers' fields?. Nature Biotechnology, 2004, 22, 687-691.	9.4	168
11	Evolutionary origins of Brassicaceae specific genes in Arabidopsis thaliana. BMC Evolutionary Biology, 2011, 11, 47.	3.2	161
12	Positive darwinian selection at the imprinted MEDEA locus in plants. Nature, 2007, 448, 349-352.	13.7	144
13	Interaction of the Arabidopsis Polycomb group proteins FIE and MEA mediates their common phenotypes. Current Biology, 2000, 10, 1535-1538.	1.8	142
14	Diffusible Signal Factor-Dependent Cell-Cell Signaling and Virulence in the Nosocomial Pathogen Stenotrophomonas maltophilia. Journal of Bacteriology, 2007, 189, 4964-4968.	1.0	136
15	Genomic imprinting and seed development: endosperm formation with and without sex. Current Opinion in Plant Biology, 2001, 4, 21-27.	3.5	127
16	PHYTOCHROME B and HISTONE DEACETYLASE 6 Control Light-Induced Chromatin Compaction in Arabidopsis thaliana. PLoS Genetics, 2009, 5, e1000638.	1.5	123
17	Comparative Transcriptome Analysis of Two <i>Ascophyllum nodosum</i> Extract Biostimulants: Same Seaweed but Different. Journal of Agricultural and Food Chemistry, 2016, 64, 2980-2989.	2.4	121
18	Evolutionary origins of the endosperm in flowering plants. Genome Biology, 2002, 3, reviews1026.1.	13.9	105

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19	Genomic imprinting, methylation and molecular evolution of maize Enhancer of zeste (Mez) homologs. Plant Journal, 2007, 49, 325-337.	2.8	97
20	Marker-trait association analysis of functional gene markers for provitamin A levels across diverse tropical yellow maize inbred lines. BMC Plant Biology, 2013, 13, 227.	1.6	93
21	Smallholder Farmers and Climate Smart Agriculture: Technology and Labor-productivity Constraints amongst Women Smallholders in Malawi. Gender, Technology and Development, 2016, 20, 117-148.	0.8	93
22	Apomixis in agriculture: the quest for clonal seeds. Sexual Plant Reproduction, 2001, 14, 179-187.	2.2	88
23	Genome-wide identification of novel microRNAs and their target genes in the human parasite Schistosoma mansoni. Genomics, 2011, 98, 96-111.	1.3	83
24	Rumen Microbiome Composition Is Altered in Sheep Divergent in Feed Efficiency. Frontiers in Microbiology, 2020, 11, 1981.	1.5	72
25	6 Genomic imprinting during seed development. Advances in Genetics, 2002, 46, 165-214.	0.8	71
26	Reduction in nutritional quality and growing area suitability of common bean under climate change induced drought stress in Africa. Scientific Reports, 2018, 8, 16187.	1.6	67
27	Agroforestry contributions to smallholder farmer food security in Indonesia. Agroforestry Systems, 2021, 95, 1109-1124.	0.9	61
28	Assessing and Exploiting Functional Diversity in Germplasm Pools to Enhance Abiotic Stress Adaptation and Yield in Cereals and Food Legumes. Frontiers in Plant Science, 2017, 8, 1461.	1.7	60
29	Next-generation sequencing based genotyping, cytometry and phenotyping for understanding diversity and evolution of guinea yams. Theoretical and Applied Genetics, 2014, 127, 1783-1794.	1.8	59
30	Genetic Interaction of an Origin Recognition Complex Subunit and the Polycomb Group Gene MEDEA during Seed Development[W]. Plant Cell, 2004, 16, 1035-1046.	3.1	58
31	Cytoplasmic Male Sterility-Associated Chimeric Open Reading Frames Identified by Mitochondrial Genome Sequencing of Four Cajanus Genotypes. DNA Research, 2013, 20, 485-495.	1.5	58
32	DNA sequence polymorphisms in a panel of eight candidate bovine imprinted genes and their association with performance traits in Irish Holstein-Friesian cattle. BMC Genetics, 2010, 11, 93.	2.7	49
33	Identification of imprinted genes subject to parent-of-origin specific expression in Arabidopsis thaliana seeds. BMC Plant Biology, 2011, 11, 113.	1.6	46
34	Disaggregating polyploidy, parental genome dosage and hybridity contributions to heterosis in <i>Arabidopsis thaliana</i> . New Phytologist, 2016, 209, 590-599.	3.5	46
35	The triploid East African Highland Banana (EAHB) genepool is genetically uniform arising from a single ancestral clone that underwent population expansion by vegetative propagation. Theoretical and Applied Genetics, 2016, 129, 547-561.	1.8	45
36	Genome-wide survey of allele-specific splicing in humans. BMC Genomics, 2008, 9, 265.	1.2	44

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37	Household perspectives on cookstove and fuel stacking: A qualitative study in urban and rural Kenya. Energy for Sustainable Development, 2020, 59, 151-159.	2.0	44
38	Single nucleotide polymorphisms at the imprinted bovine insulin-like growth factor 2 (<i>IGF2</i>) locus are associated with dairy performance in Irish Holstein-Friesian cattle. Journal of Dairy Research, 2011, 78, 1-8.	0.7	41
39	Prediction and validation of microRNA targets in animal genomes. Journal of Biosciences, 2007, 32, 1049-1052.	0.5	38
40	Reduction in Carotenoid Levels in the Marine Diatom Phaeodactylum tricornutum by Artificial MicroRNAs Targeted Against the Endogenous Phytoene Synthase Gene. Marine Biotechnology, 2015, 17, 1-7.	1.1	36
41	DNA sequence polymorphisms within the bovine guanine nucleotide-binding protein Gs subunit alpha (Gsl \pm)-encoding (GNAS) genomic imprinting domain are associated with performance traits. BMC Genetics, 2011, 12, 4.	2.7	32
42	Molecular adaptation of telomere associated genes in mammals. BMC Evolutionary Biology, 2013, 13, 251.	3.2	32
43	Transposons and Tandem Repeats Are Not Involved in the Control of Genomic Imprinting at the MEDEA Locus in Arabidopsis. Cold Spring Harbor Symposia on Quantitative Biology, 2004, 69, 465-476.	2.0	31
44	EU GM Crop Regulation: A Road to Resolution or a Regulatory Roundabout?. European Journal of Risk Regulation, 2010, 1, 359-369.	0.8	30
45	Genomic imprinting in plants. Epigenetics, 2008, 3, 14-20.	1.3	29
46	Single Nucleotide Polymorphisms within the Bovine DLK1-DIO3 Imprinted Domain Are Associated with Economically Important Production Traits in Cattle. Journal of Heredity, 2011, 102, 94-101.	1.0	29
47	An NTD-Associated Polymorphism in the 3′ UTR of MTHFD1L can Affect Disease Risk by Altering miRNA Binding. Human Mutation, 2014, 35, 96-104.	1.1	28
48	Gene dosage compensation of rRNA transcript levels in <i>Arabidopsis thaliana</i> lines with reduced ribosomal gene copy number. Plant Cell, 2021, 33, 1135-1150.	3.1	28
49	Evolutionary and genetic perspectives on the dynamics of crop genepools, 2000,, 25-70.		28
50	A phylogenetic approach to test for evidence of parental conflict or gene duplications associated with protein-encoding imprinted orthologous genes in placental mammals. Mammalian Genome, 2010, 21, 486-498.	1.0	27
51	Toxicological assessment of chemicals using <i>Caenorhabditis elegans</i> and optical oxygen respirometry. Environmental Toxicology and Chemistry, 2009, 28, 791-799.	2.2	26
52	TILLING by Sequencing (TbyS) for targeted genome mutagenesis in crops. Molecular Breeding, 2017, 37, 1.	1.0	26
53	Genetic Loci Controlling Carotenoid Biosynthesis in Diverse Tropical Maize Lines. G3: Genes, Genomes, Genetics, 2018, 8, 1049-1065.	0.8	26
54	Gamete fertility and ovule number variation in selfed reciprocal F 1 hybrid triploid plants are heritable and display epigenetic parentâ€ofâ€origin effects. New Phytologist, 2013, 198, 71-81.	3.5	25

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55	Genomic imprinting effects on complex traits in domesticated animal species. Frontiers in Genetics, 2015, 6, 156.	1.1	25
56	Concurrent Suppression of Virus Replication and Rescue of Movement-Defective Virus in Transgenic Plants Expressing the Coat Protein of Potato Virus X. Virology, 1997, 236, 76-84.	1.1	24
57	Emerging molecular mechanisms for biotechnological harnessing of heterosis in crops. Trends in Biotechnology, 2013, 31, 549-551.	4.9	24
58	Generation of stable nulliplex autopolyploid lines of Arabidopsis thaliana using CRISPR/Cas9 genome editing. Plant Cell Reports, 2017, 36, 1005-1008.	2.8	24
59	Genome-Wide microRNA Binding Site Variation between Extinct Wild Aurochs and Modern Cattle Identifies Candidate microRNA-Regulated Domestication Genes. Frontiers in Genetics, 2017, 8, 3.	1.1	24
60	Just the tonic! Legume biorefining for alcohol has the potential to reduce Europe's protein deficit and mitigate climate change. Environment International, 2019, 130, 104870.	4.8	24
61	The impact of forestry as a land use on water quality outcomes: An integrated analysis. Forest Policy and Economics, 2020, 116, 102185.	1.5	24
62	Origin of year-long bean (<i>Phaseolus dumosus</i> Macfady, Fabaceae) from reticulated hybridization events between multiple <i>Phaseolus</i> species. Annals of Botany, 2016, 118, 957-969.	1.4	23
63	Regulatory interplay between miR-21, JAG1 and 17beta-estradiol (E2) in breast cancer cells. Biochemical and Biophysical Research Communications, 2012, 423, 234-239.	1.0	22
64	Imprinted loci in domestic livestock species as epigenomic targets for artificial selection of complex traits. Animal Genetics, 2014, 45, 25-39.	0.6	21
65	GM directive deficiencies in the European Union. The current framework for regulating GM crops in the EU weakens the precautionary principle as a policy tool. EMBO Reports, 2008, 9, 500-504.	2.0	20
66	Quantitative Genetics Identifies Cryptic Genetic Variation Involved in the Paternal Regulation of Seed Development. PLoS Genetics, 2016, 12, e1005806.	1.5	20
67	Thermal disruption of the food matrix of biofortified lettuce varieties modifies absorption of carotenoids by Caco-2 cells. Food Chemistry, 2020, 308, 125443.	4.2	20
68	Strategies for engineering virus resistance in transgenic plants. Euphytica, 1995, 85, 149-158.	0.6	19
69	Single nucleotide polymorphisms in the imprinted bovine <i>insulinâ€like growth factor 2 receptor</i> gene (<i>IGF2R</i>) are associated with body size traits in Irish Holsteinâ€Friesian cattle. Animal Genetics, 2012, 43, 81-87.	0.6	19
70	Climate smart agriculture extension: gender disparities in agroforestry knowledge acquisition. Climate and Development, 2021, 13, 21-33.	2.2	19
71	Computational Identification and Evolutionary Relationships of the MicroRNA Gene Cluster miR-71/2 in Protostomes. Journal of Molecular Evolution, 2013, 76, 353-358.	0.8	18
72	Paternally Expressed Imprinted Genes under Positive Darwinian Selection in Arabidopsis thaliana. Molecular Biology and Evolution, 2019, 36, 1239-1253.	3.5	18

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73	Sensory and cultural acceptability tradeoffs with nutritional content of biofortified orange-fleshed sweetpotato varieties among households with children in Malawi. PLoS ONE, 2018, 13, e0204754.	1.1	17
74	Morphological, SSR and ploidy analysis of water yam (Dioscorea alata L.) accessions for utilization of aerial tubers as planting materials. Genetic Resources and Crop Evolution, 2017, 64, 291-305.	0.8	16
75	Identification of candidate flowering and sex genes in white Guinea yam (D. rotundata Poir.) by SuperSAGE transcriptome profiling. PLoS ONE, 2019, 14, e0216912.	1.1	16
76	Drivers of household and agricultural adaptation to climate change in Vietnam. Climate and Development, 2021, 13, 242-255.	2.2	16
77	Elicitation of Rx-Mediated Resistance to PVX in Potato Does Not Require New RNA Synthesis and May Involve a Latent Hypersensitive Response. Molecular Plant-Microbe Interactions, 1998, 11, 833-835.	1.4	15
78	A catalogue of validated single nucleotide polymorphisms in bovine orthologs of mammalian imprinted genes and associations with beef production traits. Animal, 2010, 4, 1958-1970.	1.3	15
79	DNA barcoding of the main cultivated yams and selected wild species in the genus <i>Dioscorea</i> Journal of Systematics and Evolution, 2016, 54, 228-237.	1.6	15
80	CmCGG Methylation-Independent Parent-of-Origin Effects on Genome-Wide Transcript Levels in Isogenic Reciprocal F1 Triploid Plants. DNA Research, 2014, 21, 141-151.	1.5	14
81	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	0.8	13
82	African Origin and Europe-Mediated Global Dispersal of The Cyanobacterium Microcystis aeruginosa. Current Microbiology, 2014, 69, 628-633.	1.0	12
83	Heritable epigenetic diversity for conservation and utilization of epigenetic germplasm resources of clonal East African Highland banana (EAHB) accessions. Theoretical and Applied Genetics, 2020, 133, 2605-2625.	1.8	11
84	<i>PHLDA2</i> is an imprinted gene in cattle. Animal Genetics, 2012, 43, 587-590.	0.6	10
85	Parentalâ€genome dosage effects on the transcriptome of F1 hybrid triploid embryos of <i>Arabidopsis thaliana</i> . Plant Journal, 2017, 92, 1044-1058.	2.8	10
86	Epigenetics and Heterosis in Crop Plants. , 2019, , 129-147.		10
87	Integrating gender into index-based agricultural insurance: a focus on South Africa. Development in Practice, 2019, 29, 409-423.	0.6	10
88	Genomic Imprinting in Plants. Advances in Experimental Medicine and Biology, 2008, 626, 89-100.	0.8	10
89	A Polynucleotide Repeat Expansion Causing Temperature-Sensitivity Persists in Wild Irish Accessions of Arabidopsis thaliana. Frontiers in Plant Science, 2016, 7, 1311.	1.7	8
90	Epigenetics and Heterosis in Crop Plants. , 2014, , 13-31.		6

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91	PATRONUS1 is expressed in meiotic prophase I to regulate centromeric cohesion in Arabidopsis and shows synthetic lethality with OSD1. BMC Plant Biology, 2015, 15, 201.	1.6	6
92	Genomeâ€wide identification and <i>in silico</i> characterisation of micro <scp>RNA</scp> s, their targets and processing pathway genes in <i>Phaseolus vulgaris</i> L Plant Biology, 2016, 18, 206-219.	1.8	6
93	Hybridity has a greater effect than paternal genome dosage on heterosis in sugar beet (Beta vulgaris). BMC Plant Biology, 2018, 18, 120.	1.6	6
94	First the seed: Genomic advances in seed science for improved crop productivity and food security. Crop Science, 2021, 61, 1501-1526.	0.8	6
95	Landscaping Plant Epigenetics. Methods in Molecular Biology, 2014, 1112, 1-24.	0.4	6
96	Plastid ribosome protein L5 is essential for post-globular embryo development in Arabidopsis thaliana. Plant Reproduction, 2022, 35, 189-204.	1.3	6
97	Parent-of-Origin Effects on Seed Size Modify Heterosis Responses in Arabidopsis thaliana. Frontiers in Plant Science, 2022, 13, 835219.	1.7	6
98	ALCAM is indirectly modulated by miR-125b in MCF7 cells. Tumor Biology, 2015, 36, 3511-3520.	0.8	5
99	Transgenerational effects of inter-ploidy cross direction on reproduction and F2 seed development of Arabidopsis thaliana F1 hybrid triploids. Plant Reproduction, 2019, 32, 275-289.	1.3	5
100	Engineering of Apomixis in Crop Plants: What Can We Learn from Sexual Model Systems?., 2003,, 309-314.		5
101	AN INSIGHT INTO THE IMPACT OF ARABLE FARMING ON IRISH BIODIVERSITY: A SCARCITY OF STUDIES HINDERS A RIGOROUS ASSESSMENT. Biology and Environment, 2008, 108, 97-108.	0.2	5
102	In Arabidopsis thaliana codon volatility scores reflect GC3 composition rather than selective pressure. BMC Research Notes, 2012, 5, 359.	0.6	4
103	Data for life cycle assessment of legume biorefining for alcohol. Data in Brief, 2019, 25, 104242.	0.5	4
104	Kinship networks of seed exchange shape spatial patterns of plant virus diversity. Nature Communications, 2021, 12, 4505.	5.8	4
105	Combining Ability and Heterosis for Endosperm Carotenoids and Agronomic Traits in Tropical Maize Lines. Frontiers in Plant Science, 2021, 12, 674089.	1.7	4
106	Community-Level Impacts of Climate-Smart Agriculture Interventions on Food Security and Dietary Diversity in Climate-Smart Villages in Myanmar. Climate, 2021, 9, 166.	1.2	4
107	Plant-Produced Biopharmaceuticals. , 2010, , 269-299.		3
108	Genomics in Agriculture and Food Processing. , 2013, , 45-70.		3

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109	Effect of constituents from samaras of Austroplenckia populnea (Celastraceae) on human cancer cells. Journal of Intercultural Ethnopharmacology, 2015, 4, 6.	0.9	3
110	Analysis of Genomic Imprinting by Quantitative Allele-Specific Expression by Pyrosequencing \hat{A}^{\otimes} . Methods in Molecular Biology, 2014, 1112, 85-104.	0.4	2
111	1 out of 27â€"European politicians score poorly in agbiotech. Nature Biotechnology, 2010, 28, 551-552.	9.4	1
112	High Concordance of Bovine Single Nucleotide Polymorphism Genotypes Generated Using Two Independent Genotyping Strategies. Animal Biotechnology, 2010, 21, 257-262.	0.7	1
113	Allele-specific splicing effects on DKKL1 and ZNF419 transcripts in HeLa cells. Gene, 2017, 598, 107-112.	1.0	1
114	Parent-of-Origin Effects and Seed Development. , 2002, , .		1
115	An Overview of Current Research in Plant Epigenetic and Epigenomic Phenomena. Methods in Molecular Biology, 2020, 2093, 3-13.	0.4	1
116	Poverty Alleviation, Plant Biotechnology and the Importance of the CGIAR International Agricultural Research Centres. , 0, , .		O