Kai Guo

List of Publications by Year in Descending Order

47 papers	789 citations	15 h-index	27 g-index
54 ext. papers	1,112 ext. citations	5.9 avg, IF	3.87 L-index

#	Paper	IF	Citations
47	Type III CRISPR-based RNA editing for programmable control of SARS-CoV-2 and human coronaviruses.. *Nucleic Acids Research*, **2022**,	20.1	1
46	The impact of methodology on the reproducibility and rigor of DNA methylation data.. *Scientific Reports*, **2022**, 12, 380	4.9	2
45	SMAP is a pipeline for sample matching in proteogenomics.. *Nature Communications*, **2022**, 13, 744	17.4	
44	Interferon-promotes monocyte-mediated lung injury during influenza infection.. *Cell Reports*, **2022**, 38, 110456	10.6	1
43	Dynamic impact of virome on colitis and colorectal cancer: Immunity, inflammation, prevention and treatment. *Seminars in Cancer Biology*, **2021**,	12.7	4
42	Plasma lipid metabolites associate with diabetic polyneuropathy in a cohort with type 2 diabetes. *Annals of Clinical and Translational Neurology*, **2021**, 8, 1292-1307	5.3	6
41	Epigenetic Reprogramming Mediated by Maternal Diet Rich in Omega-3 Fatty Acids Protects From Breast Cancer Development in F1 Offspring. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 682593	5.7	6
40	Gut Microbiota Regulate Gut-Lung Axis Inflammatory Responses by Mediating ILC2 Compartmental Migration. *Journal of Immunology*, **2021**,	5.3	4
39	Bitter receptor TAS2R138 facilitates lipid droplet degradation in neutrophils during Pseudomonas aeruginosa infection. *Signal Transduction and Targeted Therapy*, **2021**, 6, 210	21	3
38	Microbial and genetic-based framework identifies drug targets in inflammatory bowel disease. *Theranostics*, **2021**, 11, 7491-7506	12.1	6
37	Predicting Drug-Induced Liver Injury Using Machine Learning on a Diverse Set of Predictors. *Frontiers in Pharmacology*, **2021**, 12, 648805	5.6	1
36	Alpha-Synuclein-induced DNA Methylation and Gene Expression in Microglia. *Neuroscience*, **2021**, 468, 186-198	3.9	2
35	Repurposable drugs for SARS-CoV-2 and influenza sepsis with scRNA-seq data targeting post-transcription modifications.. *Precision Clinical Medicine*, **2021**, 4, 215-230	6.7	0
34	Plasma Metabolomics and Lipidomics Differentiate Obese Individuals by Peripheral Neuropathy Status. *Journal of Clinical Endocrinology and Metabolism*, **2021**,	5.6	2
33	CRISPR-Cas13 Inhibitors Block RNA Editing in Bacteria and Mammalian Cells. *Molecular Cell*, **2020**, 78, 850-861.e5	17.6	32
32	2285-PUB: Hippocampal Transcriptomic Changes Due to High-Fat Diet in Prediabetic Mice. *Diabetes* , **2020**, 69, 2285-PUB	0.9	
31	537-P: Dietary Reversal Improves Peripheral Neuropathy and Gut Microbiota Profile in a Murine Model of Prediabetes and Obesity. *Diabetes*, **2020**, 69, 537-P	0.9	

30	Impairs Host Defense by Increasing the Quorum-Sensing-Mediated Virulence of. *Frontiers in Immunology*, **2020**, 11, 1696	8.4	7
29	Genome-wide profiling of DNA methylation and gene expression identifies candidate genes for human diabetic neuropathy. *Clinical Epigenetics*, **2020**, 12, 123	7.7	13
28	Untargeted metabolomics yields insight into ALS disease mechanisms. *Journal of Neurology, Neurosurgery and Psychiatry*, **2020**, 91, 1329-1338	5.5	15
27	Integrated lipidomic and transcriptomic analyses identify altered nerve triglycerides in mouse models of prediabetes and type 2 diabetes. *DMM Disease Models and Mechanisms*, **2020**, 13,	4.1	18
26	Network-Based Assessment of Adverse Drug Reaction Risk in Polypharmacy Using High-Throughput Screening Data. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	5
25	Pathway crosstalk perturbation network modeling for identification of connectivity changes induced by diabetic neuropathy and pioglitazone. *BMC Systems Biology*, **2019**, 13, 1	3.5	17
24	Genome-wide DNA methylation profiling of human diabetic peripheral neuropathy in subjects with type 2 diabetes mellitus. *Epigenetics*, **2019**, 14, 766-779	5.7	15
23	Post-transcriptional processing at the promoter proximal RNA polymerase II pausing. A possible mechanism for premature termination. *FASEB Journal*, **2019**, 33, 458.13	0.9	
22	31-LB: Identification of Repurposable Drug Candidate for Diabetic Peripheral Neuropathy Using High-Throughput Drug-Perturbation Data. *Diabetes*, **2019**, 68, 31-LB	0.9	
21	CdpR Inhibits CRISPR-Cas Adaptive Immunity to Lower Anti-viral Defense while Avoiding Self-Reactivity. *IScience*, **2019**, 13, 55-68	6.1	7
20	A Network Pharmacology Approach for the Identification of Common Mechanisms of Drug-Induced Peripheral Neuropathy. *CPT: Pharmacometrics and Systems Pharmacology*, **2019**, 8, 211-219	4.5	3
19	Temporal evolution of the microbiome, immune system and epigenome with disease progression in ALS mice. *DMM Disease Models and Mechanisms*, **2019**, 13,	4.1	32
18	Exploration of the Anti-Inflammatory Drug Space Through Network Pharmacology: Applications for Drug Repurposing. *Frontiers in Physiology*, **2018**, 9, 151	4.6	10
17	NOX, NOX, Are You Here? The Emerging Role of NOX5 in Diabetic Neuropathy. *Diabetes*, **2018**, 67, 30-LB	0.9	3
16	Amelioration of Peripheral Neuropathy in Mouse Models of Diabetes by Dietary Reversal. *Diabetes*, **2018**, 67, 569-P	0.9	1
15	Systems Approach to Assign Expression Based Signatures to Adrenergic Drugs. *FASEB Journal*, **2018**, 32, 690.2	0.9	
14	Two-Way Orthogonal Partial Least Squares (O2PLS) Analysis of the Lipidome and Transcriptome in Prediabetic and Diabetic Neuropathy. *Diabetes*, **2018**, 67, 548-P	0.9	
13	Large-Scale DNA Methylation Profiling of Human Diabetic Peripheral Neuropathy in Subjects with Type 2 Diabetes Mellitus. *Diabetes*, **2018**, 67, 551-P	0.9	

12	Conserved Transcriptional Signatures in Human and Murine Diabetic Peripheral Neuropathy. *Scientific Reports*, **2018**, 8, 17678	4.9	29
11	Domestication of rice has reduced the occurrence of transposable elements within gene coding regions. *BMC Genomics*, **2017**, 18, 55	4.5	20
10	Proteomic profiling of cellulase-aid-extracted membrane proteins for functional identification of cellulose synthase complexes and their potential associated- components in cotton fibers. *Scientific Reports*, **2016**, 6, 26356	4.9	6
9	A Novel / Mutation Distinctively Causes Alteration in the Expression of the Genes for Cell Wall Polymer Synthesis in Rice. *Frontiers in Plant Science*, **2016**, 7, 1366	6.2	11
8	Positive selection drives adaptive diversification of the 4-coumarate: CoA ligase (4CL) gene in angiosperms. *Ecology and Evolution*, **2015**, 5, 3413-20	2.8	5
7	High-level hemicellulosic arabinose predominately affects lignocellulose crystallinity for genetically enhancing both plant lodging resistance and biomass enzymatic digestibility in rice mutants. *Plant Biotechnology Journal*, **2015**, 13, 514-25	11.6	102
6	An integrated genomic and metabolomic framework for cell wall biology in rice. *BMC Genomics*, **2014**, 15, 596	4.5	21
5	Distinct biochemical activities and heat shock responses of two UDP-glucose sterol glucosyltransferases in cotton. *Plant Science*, **2014**, 219-220, 1-8	5.3	16
4	Biomass digestibility is predominantly affected by three factors of wall polymer features distinctive in wheat accessions and rice mutants. *Biotechnology for Biofuels*, **2013**, 6, 183	7.8	86
3	Analysis of five rice 4-coumarate:coenzyme A ligase enzyme activity and stress response for potential roles in lignin and flavonoid biosynthesis in rice. *Biochemical and Biophysical Research Communications*, **2013**, 430, 1151-6	3.4	66
2	Global identification of multiple OsGH9 family members and their involvement in cellulose crystallinity modification in rice. *PLoS ONE*, **2013**, 8, e50171	3.7	44
1	Expression profiling and integrative analysis of the CESA/CSL superfamily in rice. *BMC Plant Biology*, **2010**, 10, 282	5.3	164