

# Dan Tulpan

## List of Publications by Year in descending order

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46  
papers

1,145  
citations

471509  
17  
h-index

414414  
32  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1788  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of clipping of flight feathers on resource use in Gallus gallus domesticus. Royal Society Open Science, 2022, 9, 211561.	2.4	7
2	Multi-view real-time acquisition and 3D reconstruction of point clouds for beef cattle. Computers and Electronics in Agriculture, 2022, 197, 106987.	7.7	10
3	Machine-Learning-Based Genome-Wide Association Studies for Uncovering QTL Underlying Soybean Yield and Its Components. International Journal of Molecular Sciences, 2022, 23, 5538.	4.1	20
4	Key Region Extraction and Body Dimension Measurement of Beef Cattle Using 3D Point Clouds. Agriculture (Switzerland), 2022, 12, 1012.	3.1	5
5	Extraction of key regions of beef cattle based on bidirectional tomographic slice features from point cloud data. Computers and Electronics in Agriculture, 2022, 199, 107190.	7.7	2
6	ASAS-NANP SYMPOSIUM: Applications of machine learning for livestock body weight prediction from digital images. Journal of Animal Science, 2021, 99, .	0.5	35
7	In pursuit of a better broiler: growth, efficiency, and mortality of 16 strains of broiler chickens. Poultry Science, 2021, 100, 100955.	3.4	22
8	Application of machine learning and genetic optimization algorithms for modeling and optimizing soybean yield using its component traits. PLoS ONE, 2021, 16, e0250665.	2.5	33
9	Using Hybrid Artificial Intelligence and Evolutionary Optimization Algorithms for Estimating Soybean Yield and Fresh Biomass Using Hyperspectral Vegetation Indices. Remote Sensing, 2021, 13, 2555.	4.0	44
10	PSI-16 Estimation of pigs live body weight from digital images using reference objects. Journal of Animal Science, 2021, 99, 276-277.	0.5	0
11	PSIII-5 Predicting live weight using linear body measurements in growing beef calves. Journal of Animal Science, 2021, 99, 285-285.	0.5	1
12	80 A Brief Overview, Comparison and Practical Applications of Machine Learning Models. Journal of Animal Science, 2021, 99, 44-44.	0.5	0
13	Genome-Wide Association Studies of Soybean Yield-Related Hyperspectral Reflectance Bands Using Machine Learning-Mediated Data Integration Methods. Frontiers in Plant Science, 2021, 12, 777028.	3.6	26
14	311 A brief overview, comparison and practical applications of machine learning models. Journal of Animal Science, 2020, 98, 44-45.	0.5	3
15	The relationship of pork carcass weight and leanness parameters in the Ontario commercial pork industry. Translational Animal Science, 2020, 4, 331-338.	1.1	10
16	Application of Machine Learning Algorithms in Plant Breeding: Predicting Yield From Hyperspectral Reflectance in Soybean. Frontiers in Plant Science, 2020, 11, 624273.	3.6	105
17	Pairwise visual comparison of small RNA secondary structures with base pair probabilities. BMC Bioinformatics, 2019, 20, 293.	2.6	4
18	A review of traditional and machine learning methods applied to animal breeding. Animal Health Research Reviews, 2019, 20, 31-46.	3.1	35

#	ARTICLE	IF	CITATIONS
19	Analysis of MAPK and MAPKK gene families in wheat and related Triticeae species. BMC Genomics, 2018, 19, 178.	2.8	40
20	Temporal ordering of substitutions in RNA evolution: Uncovering the structural evolution of the Human Accelerated Region 1. Journal of Theoretical Biology, 2018, 438, 143-150.	1.7	7
21	Bioinformatics identification of new targets for improving low temperature stress tolerance in spring and winter wheat. BMC Bioinformatics, 2017, 18, 174.	2.6	8
22	Detection of clouds in sky/cloud and aerial images using moment based texture segmentation. , 2017, , .		5
23	The Plant Orthology Browser: An Orthology and Geneâ€Order Visualizer for Plant Comparative Genomics. Plant Genome, 2017, 10, plantgenome2016.08.0078.	2.8	10
24	Correlations Between Experimentally-Determined Melting Temperatures and GC-Content for Short DNA Strands. Current Bioinformatics, 2017, 12, .	1.5	0
25	Metabolomics and Cheminformatics Analysis of Antifungal Function of Plant Metabolites. Metabolites, 2016, 6, 31.	2.9	18
26	Exogenous Absciscic Acid and Gibberellic Acid Elicit Opposing Effects on <i>Fusarium graminearum</i> Infection in Wheat. Phytopathology, 2016, 106, 986-996.	2.2	44
27	Detection of Airborne Collision-Course Targets for Sense and Avoid on Unmanned Aircraft Systems Using Machine Vision Techniques. Unmanned Systems, 2016, 04, 255-272.	3.6	6
28	Enrichment of Triticum aestivum gene annotations using ortholog cliques and gene ontologies in other plants. BMC Genomics, 2015, 16, 299.	2.8	7
29	Digitization of trait representation in microarray data analysis of wheat infected by fusarium graminearum. , 2015, , .		3
30	Session details: Volume I: Artificial intelligence and agents, distributed systems, and information systems: Computational biology and bioinformatics track. , 2015, , .		0
31	Experimental evaluation of four feature detection methods for close range and distant airborne targets for Unmanned Aircraft Systems applications. , 2014, , .		13
32	Thermodynamic Post-Processing versus GC-Content Pre-Processing for DNA Codes Satisfying the Hamming Distance and Reverse-Complement Constraints. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 441-452.	3.0	19
33	Session details: Volume I: Artificial intelligence & agents, distributed systems, and information systems: BioHealth informatics track. , 2014, , .		0
34	HyDEn: A Hybrid Steganocryptographic Approach for Data Encryption Using Randomized Error-Correcting DNA Codes. BioMed Research International, 2013, 2013, 1-11.	1.9	17
35	Clifin. International Journal of Healthcare Information Systems and Informatics, 2012, 7, 32-47.	0.9	3
36	<sup>1</sup> H NMR metabolomics combined with gene expression analysis for the determination of major metabolic differences between subtypes of breast cell lines. Chemical Science, 2011, 2, 2263.	7.4	19

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37	MetaboHunter: an automatic approach for identification of metabolites from 1H-NMR spectra of complex mixtures. BMC Bioinformatics, 2011, 12, 400.	2.6	99
38	Recent Patents and Challenges on DNA Microarray Probe Design Technologies. Recent Patents on DNA & Gene Sequences, 2010, 4, 210-217.	0.7	3
39	Free energy estimation of short DNA duplex hybridizations. BMC Bioinformatics, 2010, 11, 105.	2.6	19
40	The microarray manual curation tool (MMCT): A Webserver for microarray probe evaluations. Bioinformation, 2010, 4, 344-346.	0.5	0
41	Non-intrusive Patient Monitoring of Alzheimer's Disease Subjects Using Wireless Sensor Networks. , 2009, , .		19
42	InnateDB: facilitating systems-level analyses of the mammalian innate immune response. Molecular Systems Biology, 2008, 4, 218.	7.2	330
43	Thermodynamically based DNA strand design. Nucleic Acids Research, 2005, 33, 4951-4964.	14.5	54
44	A thermodynamic approach to designing structure-free combinatorial DNA word sets. Nucleic Acids Research, 2005, 33, 4965-4977.	14.5	36
45	Computational Sequence Design Techniques for DNA Microarray Technologies. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 57-91.	0.4	1
46	Computational Sequence Design Techniques for DNA Microarray Technologies. , 0, , 884-918.		0