

# Dan Tulpan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7707992/publications.pdf>

Version: 2024-02-01

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	InnateDB: facilitating systems-level analyses of the mammalian innate immune response. <i>Molecular Systems Biology</i> , 2008, 4, 218.	7.2	330
2	Application of Machine Learning Algorithms in Plant Breeding: Predicting Yield From Hyperspectral Reflectance in Soybean. <i>Frontiers in Plant Science</i> , 2020, 11, 624273.	3.6	105
3	MetaboHunter: an automatic approach for identification of metabolites from 1H-NMR spectra of complex mixtures. <i>BMC Bioinformatics</i> , 2011, 12, 400.	2.6	99
4	Thermodynamically based DNA strand design. <i>Nucleic Acids Research</i> , 2005, 33, 4951-4964.	14.5	54
5	Exogenous Absciscic Acid and Gibberellic Acid Elicit Opposing Effects on <i>Fusarium graminearum</i> Infection in Wheat. <i>Phytopathology</i> , 2016, 106, 986-996.	2.2	44
6	Using Hybrid Artificial Intelligence and Evolutionary Optimization Algorithms for Estimating Soybean Yield and Fresh Biomass Using Hyperspectral Vegetation Indices. <i>Remote Sensing</i> , 2021, 13, 2555.	4.0	44
7	Analysis of MAPK and MAPKK gene families in wheat and related Triticeae species. <i>BMC Genomics</i> , 2018, 19, 178.	2.8	40
8	A thermodynamic approach to designing structure-free combinatorial DNA word sets. <i>Nucleic Acids Research</i> , 2005, 33, 4965-4977.	14.5	36
9	A review of traditional and machine learning methods applied to animal breeding. <i>Animal Health Research Reviews</i> , 2019, 20, 31-46.	3.1	35
10	ASAS-NANP SYMPOSIUM: Applications of machine learning for livestock body weight prediction from digital images. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	35
11	Application of machine learning and genetic optimization algorithms for modeling and optimizing soybean yield using its component traits. <i>PLoS ONE</i> , 2021, 16, e0250665.	2.5	33
12	Genome-Wide Association Studies of Soybean Yield-Related Hyperspectral Reflectance Bands Using Machine Learning-Mediated Data Integration Methods. <i>Frontiers in Plant Science</i> , 2021, 12, 777028.	3.6	26
13	In pursuit of a better broiler: growth, efficiency, and mortality of 16 strains of broiler chickens. <i>Poultry Science</i> , 2021, 100, 100955.	3.4	22
14	Machine-Learning-Based Genome-Wide Association Studies for Uncovering QTL Underlying Soybean Yield and Its Components. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5538.	4.1	20
15	Non-intrusive Patient Monitoring of Alzheimer's Disease Subjects Using Wireless Sensor Networks. , 2009, , .		19
16	Free energy estimation of short DNA duplex hybridizations. <i>BMC Bioinformatics</i> , 2010, 11, 105.	2.6	19
17	1H NMR metabolomics combined with gene expression analysis for the determination of major metabolic differences between subtypes of breast cell lines. <i>Chemical Science</i> , 2011, 2, 2263.	7.4	19
18	Thermodynamic Post-Processing versus GC-Content Pre-Processing for DNA Codes Satisfying the Hamming Distance and Reverse-Complement Constraints. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014, 11, 441-452.	3.0	19

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19	Metabolomics and Cheminformatics Analysis of Antifungal Function of Plant Metabolites. <i>Metabolites</i> , 2016, 6, 31.	2.9	18
20	HyDEn: A Hybrid Steganocryptographic Approach for Data Encryption Using Randomized Error-Correcting DNA Codes. <i>BioMed Research International</i> , 2013, 2013, 1-11.	1.9	17
21	Experimental evaluation of four feature detection methods for close range and distant airborne targets for Unmanned Aircraft Systems applications. , 2014, , .		13
22	The Plant Orthology Browser: An Orthology and Geneâ€Order Visualizer for Plant Comparative Genomics. <i>Plant Genome</i> , 2017, 10, plantgenome2016.08.0078.	2.8	10
23	The relationship of pork carcass weight and leanness parameters in the Ontario commercial pork industry. <i>Translational Animal Science</i> , 2020, 4, 331-338.	1.1	10
24	Multi-view real-time acquisition and 3D reconstruction of point clouds for beef cattle. <i>Computers and Electronics in Agriculture</i> , 2022, 197, 106987.	7.7	10
25	Bioinformatics identification of new targets for improving low temperature stress tolerance in spring and winter wheat. <i>BMC Bioinformatics</i> , 2017, 18, 174.	2.6	8
26	Enrichment of <i>Triticum aestivum</i> gene annotations using ortholog cliques and gene ontologies in other plants. <i>BMC Genomics</i> , 2015, 16, 299.	2.8	7
27	Temporal ordering of substitutions in RNA evolution: Uncovering the structural evolution of the Human Accelerated Region 1. <i>Journal of Theoretical Biology</i> , 2018, 438, 143-150.	1.7	7
28	Effects of clipping of flight feathers on resource use in <i>Gallus gallus domesticus</i> . <i>Royal Society Open Science</i> , 2022, 9, 211561.	2.4	7
29	Detection of Airborne Collision-Course Targets for Sense and Avoid on Unmanned Aircraft Systems Using Machine Vision Techniques. <i>Unmanned Systems</i> , 2016, 04, 255-272.	3.6	6
30	Detection of clouds in sky/cloud and aerial images using moment based texture segmentation. , 2017, , .		5
31	Key Region Extraction and Body Dimension Measurement of Beef Cattle Using 3D Point Clouds. <i>Agriculture (Switzerland)</i> , 2022, 12, 1012.	3.1	5
32	Pairwise visual comparison of small RNA secondary structures with base pair probabilities. <i>BMC Bioinformatics</i> , 2019, 20, 293.	2.6	4
33	Recent Patents and Challenges on DNA Microarray Probe Design Technologies. <i>Recent Patents on DNA &amp; Gene Sequences</i> , 2010, 4, 210-217.	0.7	3
34	Digitization of trait representation in microarray data analysis of wheat infected by <i>fusarium graminearum</i> . , 2015, , .		3
35	311 A brief overview, comparison and practical applications of machine learning models. <i>Journal of Animal Science</i> , 2020, 98, 44-45.	0.5	3
36	CliFin. <i>International Journal of Healthcare Information Systems and Informatics</i> , 2012, 7, 32-47.	0.9	3

#	ARTICLE	IF	CITATIONS
37	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
38	Computational Sequence Design Techniques for DNA Microarray Technologies. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 57-91.	0.4	1
39	PSIII-5 Predicting live weight using linear body measurements in growing beef calves. Journal of Animal Science, 2021, 99, 285-285.	0.5	1
40	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
41	80 A Brief Overview, Comparison and Practical Applications of Machine Learning Models. Journal of Animal Science, 2021, 99, 44-44.	0.5	0
42	The microarray manual curation tool (MMCT): A Webserver for microarray probe evaluations. Bioinformation, 2010, 4, 344-346.	0.5	0
43	Session details: Volume I: Artificial intelligence & agents, distributed systems, and information systems: BioHealth informatics track. , 2014, , .		0
44	Session details: Volume I: Artificial intelligence and agents, distributed systems, and information systems: Computational biology and bioinformatics track. , 2015, , .		0
45	Correlations Between Experimentally-Determined Melting Temperatures and GC-Content for Short DNA Strands. Current Bioinformatics, 2017, 12, .	1.5	0
46	Computational Sequence Design Techniques for DNA Microarray Technologies. , 0, , 884-918.		0