

# Dmitri Volfson

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

2,954  
citations

279798

23  
h-index

395702

33  
g-index

38  
all docs

38  
docs citations

38  
times ranked

4189  
citing authors

#	ARTICLE	IF	CITATIONS
1	Delay-induced stochastic oscillations in gene regulation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14593-14598.	7.1	498
2	Swarming and Swirling in Self-Propelled Polar Granular Rods. Physical Review Letters, 2008, 100, 058001.	7.8	319
3	Origins of extrinsic variability in eukaryotic gene expression. Nature, 2006, 439, 861-864.	27.8	263
4	Biomechanical ordering of dense cell populations. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15346-15351.	7.1	259
5	A cellular model for sporadic ALS using patient-derived induced pluripotent stem cells. Molecular and Cellular Neurosciences, 2013, 56, 355-364.	2.2	252
6	Postmortem transcriptional profiling reveals widespread increase in inflammation in schizophrenia: a comparison of prefrontal cortex, striatum, and hippocampus among matched tetrads of controls with subjects diagnosed with schizophrenia, bipolar or major depressive disorder. Translational Psychiatry, 2019, 9, 151.	4.8	127
7	Evaluation of TrkB and BDNF transcripts in prefrontal cortex, hippocampus, and striatum from subjects with schizophrenia, bipolar disorder, and major depressive disorder. Neurobiology of Disease, 2015, 77, 220-227.	4.4	115
8	Axonal Charcot-Marie-Tooth disease patient-derived motor neurons demonstrate disease-specific phenotypes including abnormal electrophysiological properties. Experimental Neurology, 2015, 263, 190-199.	4.1	97
9	Cellular growth and division in the Gillespie algorithm. IET Systems Biology, 2004, 1, 121-128.	2.0	94
10	Partially fluidized shear granular flows: Continuum theory and molecular dynamics simulations. Physical Review E, 2003, 68, 021301.	2.1	93
11	Monitoring dynamics of single-cell gene expression over multiple cell cycles. Molecular Systems Biology, 2005, 1, 2005.0024.	7.2	83
12	Development of digital biomarkers for resting tremor and bradykinesia using a wrist-worn wearable device. Npj Digital Medicine, 2020, 3, 5.	10.9	78
13	Swirling motion in a system of vibrated elongated particles. Physical Review E, 2007, 75, 051301.	2.1	71
14	Impaired $\beta$ -arrestin recruitment and reduced desensitization by non-catechol agonists of the D1 dopamine receptor. Nature Communications, 2018, 9, 674.	12.8	70
15	Transient Dynamics of Genetic Regulatory Networks. Biophysical Journal, 2007, 92, 3501-3512.	0.5	64
16	Order Parameter Description of Stationary Partially Fluidized Shear Granular Flows. Physical Review Letters, 2003, 90, 254301.	7.8	61
17	Anisotropy-driven dynamics in vibrated granular rods. Physical Review E, 2004, 70, 051312.	2.1	59
18	Passive immunotherapy targeting amyloid- $\beta$ reduces cerebral amyloid angiopathy and improves vascular reactivity. Brain, 2016, 139, 563-577.	7.6	51

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19	STEP Levels Are Unchanged in Pre-Frontal Cortex and Associative Striatum in Post-Mortem Human Brain Samples from Subjects with Schizophrenia, Bipolar Disorder and Major Depressive Disorder. PLoS ONE, 2015, 10, e0121744.	2.5	50
20	Stick-slip dynamics of a granular layer under shear. Physical Review E, 2004, 69, 031302.	2.1	33
21	Abnormal clotting of the intrinsic/contact pathway in Alzheimer disease patients is related to cognitive ability. Blood Advances, 2018, 2, 954-963.	5.2	33
22	Thermal collapse of a granular gas under gravity. Physical Review E, 2006, 73, 061305.	2.1	26
23	Flow induced by a randomly vibrating boundary. Journal of Fluid Mechanics, 2001, 432, 387-408.	3.4	25
24	Pharmacological evaluation of clinically relevant concentrations of (2R,6R)-hydroxynorketamine. Neuropharmacology, 2019, 153, 73-81.	4.1	24
25	Neurophysiological signals as potential translatable biomarkers for modulation of metabotropic glutamate 5 receptors. Neuropharmacology, 2013, 75, 19-30.	4.1	20
26	Computationally efficient permutation-based confidence interval estimation for tail-area FDR. Frontiers in Genetics, 2013, 4, 179.	2.3	19
27	Characterization of PF-6142, a Novel, Non-Catecholamine Dopamine Receptor D1 Agonist, in Murine and Nonhuman Primate Models of Dopaminergic Activation. Frontiers in Pharmacology, 2020, 11, 1005.	3.5	18
28	Continuous gait monitoring discriminates community-dwelling mild Alzheimer's disease from cognitively normal controls. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12131.	3.7	14
29	Effect of noise on solid-to-liquid transition in small granular systems under shear. Physical Review E, 2009, 80, 041305.	2.1	11
30	In-Silico Patterning of Vascular Mesenchymal Cells in Three Dimensions. PLoS ONE, 2011, 6, e20182.	2.5	9
31	Morphological stability analysis of directional solidification into an oscillatory fluid layer. Physics of Fluids, 2001, 13, 3599-3609.	4.0	7
32	Voice Biomarkers of Recovery From Acute Respiratory Illness. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2787-2795.	6.3	5
33	Monitoring dynamics of single-cell gene expression over multiple cell cycles. , 2006, , .		3
34	Automated Sleep Stage Scoring Using k-Nearest Neighbors Classifier. Journal of Open Source Software, 2020, 5, 2377.	4.6	3
35	P4-234: IMPROVED VASCULAR REACTIVITY AND REDUCED CEREBRAL AMYLOID ANGIOPATHY FOLLOWING PASSIVE IMMUNOTHERAPY IN TRANSGENIC MICE. , 2014, 10, P872-P872.		0
36	P4-315: Evaluating amyloid-beta processing using novel gamma-secretase modulators in preclinical animal models. , 2015, 11, P905-P905.		0

#	ARTICLE	IF	CITATIONS
37	The histamine skin prick test. <i>Annals of Allergy, Asthma and Immunology</i> , 2016, 117, 433-435.	1.0	0
38	The Effects of a Novel Non-catechol Dopamine Partial Agonist on Working Memory in the Aged Rhesus Monkey. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 757850.	3.4	0