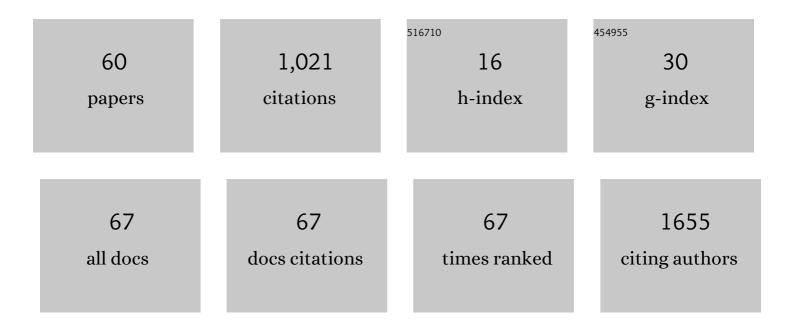
## Dimiter P Prodanov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Burgers equations and the Born rule. Chaos, Solitons and Fractals, 2021, 144, 110637.	5.1	О
2	Local generalizations of the derivatives on the real line. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105576.	3.3	0
3	Comments on some analytical and numerical aspects of the SIR model. Applied Mathematical Modelling, 2021, 95, 236-243.	4.2	13
4	Preliminary Minimum Reporting Requirements for In-Vivo Neural Interface Research: I. Implantable Neural Interfaces. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 74-83.	2.3	7
5	Analytical Parameter Estimation of the SIR Epidemic Model. Applications to the COVID-19 Pandemic. Entropy, 2021, 23, 59.	2.2	28
6	The Active Segmentation Platform for Microscopic Image Classification and Segmentation. Brain Sciences, 2021, 11, 1645.	2.3	4
7	Generalized Differentiability of Continuous Functions. Fractal and Fractional, 2020, 4, 56.	3.3	1
8	Workshop Report: Governance of Emerging Nanotechnology Risks in the Semiconductor Industry. Frontiers in Public Health, 2020, 8, 275.	2.7	2
9	Failure Modes of Implanted Neural Interfaces. , 2020, , 123-172.		8
10	Self-Similar Decomposition of Digital Signals. Cybernetics and Information Technologies, 2020, 20, 20-20-37.	1.1	0
11	Probing the 3D architecture of the plant nucleus with microscopy approaches: challenges and solutions. Nucleus, 2019, 10, 181-212.	2.2	30
12	Characterization of the Local Growth of Two Cantor-Type Functions. Fractal and Fractional, 2019, 3, 45.	3.3	3
13	Self-similar decomposition of digital signals. , 2019, , .		2
14	Integral Representations and Algebraic Decompositions of the Fox-Wright Type of Special Functions. Fractal and Fractional, 2019, 3, 4.	3.3	3
15	Regularized Integral Representations of the Reciprocal Gamma Function. Fractal and Fractional, 2019, 3, 1.	3.3	31
16	Accurate label-free 3-part leukocyte recognition with single cell lens-free imaging flow cytometry. Computers in Biology and Medicine, 2018, 96, 147-156.	7.0	23
17	Generic assessment of novel risks related to the use of engineered nanomaterials. , 2018, , .		0
18	Analytical and Numerical Treatments of Conservative Diffusions and the Burgers Equation. Entropy, 2018, 20, 492.	2.2	3

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19	Fractional Velocity as a Tool for the Study of Non-Linear Problems. Fractal and Fractional, 2018, 2, 4.	3.3	13
20	Management of health risk related to use of engineered nanomaterials. An analogy with biosafety. Biomedical Reviews, 2018, 28, 100.	0.6	3
21	Conditions for continuity of fractional velocity and existence of fractional Taylor expansions. Chaos, Solitons and Fractals, 2017, 102, 236-244.	5.1	14
22	Action potential-based MEA platform for in vitro screening of drug-induced cardiotoxicity using human iPSCs and rat neonatal myocytes. Journal of Pharmacological and Toxicological Methods, 2017, 87, 48-52.	0.7	22
23	Banding approach for engineered nanomaterial risk assessment and control. Journal of Physics: Conference Series, 2017, 838, 012017.	0.4	2
24	Sparse Representations of Clifford and Tensor Algebras in Maxima. Advances in Applied Clifford Algebras, 2017, 27, 661-683.	1.0	4
25	And Then There Was Light: Perspectives of Optogenetics for Deep Brain Stimulation and Neuromodulation. Frontiers in Neuroscience, 2017, 11, 663.	2.8	70
26	Clifford Algebra Implementations in Maxima. Journal of Geometry and Symmetry in Physics, 2017, 43, 73-105.	0.3	0
27	Mechanical and Biological Interactions of Implants with the Brain and Their Impact on Implant Design. Frontiers in Neuroscience, 2016, 10, 11.	2.8	112
28	Regularization of derivatives on non-differentiable points. Journal of Physics: Conference Series, 2016, 701, 012031.	0.4	10
29	A model of space-fractional-order diffusion in the glial scar. Journal of Theoretical Biology, 2016, 403, 97-109.	1.7	14
30	Characterization of strongly non-linear and singular functions by scale space analysis. Chaos, Solitons and Fractals, 2016, 93, 14-19.	5.1	4
31	Some Applications of Fractional Velocities. Fractional Calculus and Applied Analysis, 2016, 19, 173-187.	2.2	9
32	Selected Applications of Scale Spaces in Microscopic Image Analysis. Cybernetics and Information Technologies, 2015, 15, 5-12.	1.1	3
33	Fractional variation of Hölderian functions. Fractional Calculus and Applied Analysis, 2015, 18, 580-602.	2.2	8
34	Three-part differential of unlabeled leukocytes with a compact lens-free imaging flow cytometer. Lab on A Chip, 2015, 15, 1123-1132.	6.0	65
35	Functional electric stimulation for sensory and motor functions: progress and problems. Biomedical Reviews, 2014, 14, 23.	0.6	22
36	Neuronal activity in the bed nucleus of the stria terminalis in a rat model for obsessive–compulsive disorder. Behavioural Brain Research, 2013, 240, 52-59.	2.2	8

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37	Substrate Topography Determines Neuronal Polarization and Growth In Vitro. PLoS ONE, 2013, 8, e66170.	2.5	69
38	A Multichannel Integrated Circuit for Electrical Recording of Neural Activity, With Independent Channel Programmability. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 101-110.	4.0	66
39	Data Ontology and an Information System Realization for Web-Based Management of Image Measurements. Frontiers in Neuroinformatics, 2011, 5, 25.	2.5	4
40	Migraine preventive drugs differentially affect cortical spreading depression in rat. Neurobiology of Disease, 2011, 41, 430-435.	4.4	96
41	A Post-ischaemic Single Administration of Galanthamine, a Cholinesterase Inhibitor, Improves Learning Ability in Rats. Journal of Pharmacy and Pharmacology, 2010, 52, 1151-1156.	2.4	19
42	New Trends and Challenges in the Development of Microfabricated Probes for Recording and Stimulating of Excitable Cells. , 2010, , .		1
43	Using reciprocal derivative chronopotentiometry as a technique to determine safe charge injection limits of electrodes used for neural stimulation. , 2010, 2010, 2943-6.		0
44	In vitro and In vivo electrochemical characterization of a microfabricated neural Probe. , 2009, 2009, 7143-6.		14
45	DBS for obsessive-compulsive disorder. , 2009, , 179-186.		Ο
46	Automated characterization of nerve fibers labeled fluorescently: Determination of size, class and spatial distribution. Brain Research, 2008, 1233, 35-50.	2.2	13
47	Morphometric analysis of the fiber populations of the rat sciatic nerve, its spinal roots, and its major branches. Journal of Comparative Neurology, 2007, 503, 85-100.	1.6	38
48	Spatial clustering analysis in neuroanatomy: Applications of different approaches to motor nerve fiber distribution. Journal of Neuroscience Methods, 2007, 160, 93-108.	2.5	40
49	Automatic morphometry of synaptic boutons of cultured cells using granulometric analysis of digital images. Journal of Neuroscience Methods, 2006, 151, 168-177.	2.5	37
50	Three-dimensional topography of the motor endplates of the rat gastrocnemius muscle. Muscle and Nerve, 2005, 32, 292-302.	2.2	22
51	Effect of the acetylcholinesterase inhibitor galanthamine on learning and memory in prolonged alcohol intake rat model of acetylcholine deficit. Methods and Findings in Experimental and Clinical Pharmacology, 1999, 21, 297.	0.8	25
52	Effects Of Dexamethasone In Rat Neonatal Model Of Axotomy-Induced Motoneuronal Cell Death. Archives of Physiology and Biochemistry, 1998, 106, 355-361.	2.1	15
53	Automated Segmentation and Morphometry of Cell and Tissue Structures. Selected Algorithms in ImageJ. , 0, , .		15
54	Tools for Assessment of Occupational Health Risks of some Engineered Nanoparticles and Carbon Materials Used in Semiconductor Applications. , 0, , .		3

#	Article	IF	CITATIONS
55	Open source image analysis software toolboxes for microscopic applications. Frontiers in Neuroinformatics, 0, 7, .	2.5	1
56	Data ontology and information system for management of image measurements over the Internet. Frontiers in Neuroinformatics, 0, 3, .	2.5	1
57	Comparison of parallelized gray-scale zonal operations on CPU and GPU. Frontiers in Neuroinformatics, 0, 7, .	2.5	0
58	Scale-space based segmentation of cells in functional two-photon in vivo images. Frontiers in Neuroinformatics, 0, 7, .	2.5	0
59	Shining light on the role of Parvalbumin interneurons in cortical spreading depression. Frontiers in Aging Neuroscience, 0, 8, .	3.4	0
60	Multiscale Segmentation of Microscopic Images. , 0, , .		0