

# Sergii Domanskyi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5672916/publications.pdf>

Version: 2024-02-01

23  
papers

303  
citations

933447

10  
h-index

940533

16  
g-index

29  
all docs

29  
docs citations

29  
times ranked

294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictive design of polymer molecular weight distributions in anionic polymerization. <i>Polymer Chemistry</i> , 2020, 11, 326-336.	3.9	45
2	Biomolecular Release from Alginateâ€‘modified Electrode Triggered by Chemical Inputs Processed through a Biocatalytic Cascade â€‘ Integration of Biomolecular Computing and Actuation. <i>Electroanalysis</i> , 2018, 30, 426-435.	2.9	27
3	Kinetic Model for a Threshold Filter in an Enzymatic System for Bioanalytical and Biocomputing Applications. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12435-12443.	2.6	24
4	Design of Digital Response in Enzyme-Based Bioanalytical Systems for Information Processing Applications. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13690-13695.	2.6	23
5	Glucoseâ€‘Triggered Insulin Release from Fe <sup>3+</sup> â€‘Crossâ€‘linked Alginate Hydrogel: Experimental Study and Theoretical Modeling. <i>ChemPhysChem</i> , 2017, 18, 1541-1551.	2.1	22
6	Polled Digital Cell Sorter (p-DCS): Automatic identification of hematological cell types from single cell RNA-sequencing clusters. <i>BMC Bioinformatics</i> , 2019, 20, 369.	2.6	22
7	Longitudinal saliva omics responses to immune perturbation: a case study. <i>Scientific Reports</i> , 2021, 11, 710.	3.3	19
8	Reaction-diffusion degradation model for delayed erosion of cross-linked polyanhydride biomaterials. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13215-13222.	2.8	16
9	Diffusion of Oligonucleotides from within Ironâ€‘Crossâ€‘linked, Polyelectrolyteâ€‘Modified Alginate Beads: A Model System for Drug Release. <i>ChemPhysChem</i> , 2016, 17, 976-984.	2.1	15
10	Visibility graph based temporal community detection with applications in biological time series. <i>Scientific Reports</i> , 2021, 11, 5623.	3.3	14
11	PyIOmica: longitudinal omics analysis and trend identification. <i>Bioinformatics</i> , 2020, 36, 2306-2307.	4.1	12
12	LIF, a mitogen for choroidal endothelial cells, protects the choriocapillaris: implications for prevention of geographic atrophy. <i>EMBO Molecular Medicine</i> , 2022, 14, e14511.	6.9	11
13	Experimental Realization of a Highâ€‘Quality Biochemical XOR Gate. <i>ChemPhysChem</i> , 2017, 18, 2908-2915.	2.1	10
14	SIRT6 knockout cells resist apoptosis initiation but not progression: a computational method to evaluate the progression of apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2017, 22, 1336-1343.	4.9	8
15	Digital Cell Sorter (DCS): a cell type identification, anomaly detection, and Hopfield landscapes toolkit for single-cell transcriptomics. <i>PeerJ</i> , 2021, 9, e10670.	2.0	8
16	Percolation modeling of self-damaging of composite materials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 405, 1-9.	2.6	6
17	Design of High Quality Chemical XOR Gates with Noise Reduction. <i>ChemPhysChem</i> , 2017, 18, 1773-1781.	2.1	3
18	Modeling and Modifying Response of Biochemical Processes for Biocomputing and Biosensing Signal Processing. <i>Emergence, Complexity and Computation</i> , 2017, , 61-83.	0.3	2

#	ARTICLE	IF	CITATIONS
19	Naturally occurring combinations of receptors from single cell transcriptomics in endothelial cells. Scientific Reports, 2022, 12, 5807.	3.3	2
20	Diffusion of Oligonucleotides from within Iron-Cross-Linked, Polyelectrolyte-Modified Alginate Beads: A Model System for Drug Release. ChemPhysChem, 2016, 17, 926-926.	2.1	1
21	Rate-equation modelling and ensemble approach to extraction of parameters for viral infection-induced cell apoptosis and necrosis. Journal of Chemical Physics, 2016, 145, 094103.	3.0	1
22	Modeling disease progression in Multiple Myeloma with Hopfield networks and single-cell RNA-seq. , 2019, 2019, 2129-2136.		1
23	Abstract A14: Modeling drug combination sensitivity with Hopfield networks and transcriptomics data. , 2020, , .		0