

Alex Zhavoronkov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148
papers

6,044
citations

41
h-index

73
g-index

160
ext. papers

8,192
ext. citations

6.4
avg. IF

6.32
L-index

#	Paper	IF	Citations
148	Advanced pathological ageing should be represented in the ICD. <i>The Lancet Healthy Longevity</i> , 2022 , 3, e12	9.5	0
147	Longevity Foundation: Perspective on Decentralized Autonomous Organization for Special-Purpose Financing. <i>IEEE Access</i> , 2022 , 10, 33048-33058	3.5	0
146	AI in Longevity Medicine 2022 , 1157-1168		
145	Increased Pace of Aging in COVID-Related Mortality. <i>Life</i> , 2021 , 11,	3	6
144	Fetal mitochondrial DNA in maternal plasma in surrogate pregnancies: Detection and topology. <i>Prenatal Diagnosis</i> , 2021 , 41, 368-375	3.2	6
143	DeepMAge: A Methylation Aging Clock Developed with Deep Learning 2021 , 12, 1252-1262		10
142	Evaluation of the geroprotective effects of withaferin A in. <i>Aging</i> , 2021 , 13, 1817-1841	5.6	3
141	The potential of rapalogs to enhance resilience against SARS-CoV-2 infection and reduce the severity of COVID-19. <i>The Lancet Healthy Longevity</i> , 2021 , 2, e105-e111	9.5	15
140	COVIDomic: A multi-modal cloud-based platform for identification of risk factors associated with COVID-19 severity. <i>PLoS Computational Biology</i> , 2021 , 17, e1009183	5	2
139	Doublecortin-Like Kinase 1 (DCLK1) Is a Novel NOTCH Pathway Signaling Regulator in Head and Neck Squamous Cell Carcinoma. <i>Frontiers in Oncology</i> , 2021 , 11, 677051	5.3	0
138	Effector T cell responses unleashed by regulatory T cell ablation exacerbate oral squamous cell carcinoma. <i>Cell Reports Medicine</i> , 2021 , 2, 100399	18	2
137	AI in Longevity Medicine 2021 , 1-13		
136	The inherent challenges of classifying senescence. <i>Science</i> , 2020 , 368, 595	33.3	3
135	Medicinal Chemists versus Machines Challenge: What Will It Take to Adopt and Advance Artificial Intelligence for Drug Discovery?. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 2657-2659	6.1	5
134	Human Gut Microbiome Aging Clock Based on Taxonomic Profiling and Deep Learning. <i>IScience</i> , 2020 , 23, 101199	6.1	44
133	Reply to Assessing the impact of generative AI on medicinal chemistry <i>Nature Biotechnology</i> , 2020 , 38, 146	44.5	8
132	Will Artificial Intelligence for Drug Discovery Impact Clinical Pharmacology?. <i>Clinical Pharmacology and Therapeutics</i> , 2020 , 107, 780-785	6.1	31

131	Biohorology and biomarkers of aging: Current state-of-the-art, challenges and opportunities. <i>Ageing Research Reviews</i> , 2020 , 60, 101050	12	33
130	Geroprotective and senoremediative strategies to reduce the comorbidity, infection rates, severity, and lethality in gerophilic and gerolavic infections. <i>Aging</i> , 2020 , 12, 6492-6510	5.6	52
129	PsychoAge and SubjAge: development of deep markers of psychological and subjective age using artificial intelligence. <i>Aging</i> , 2020 , 12, 23548-23577	5.6	3
128	ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020 , 12, 24484-24503	5.6	11
127	Psychological aging, depression, and well-being. <i>Aging</i> , 2020 , 12, 18765-18777	5.6	6
126	Radioprotectors.org: an open database of known and predicted radioprotectors. <i>Aging</i> , 2020 , 12, 15741-15755	5.6	6
125	The Advent of Generative Chemistry. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 1496-1505	4.3	30
124	Molecular Sets (MOSES): A Benchmarking Platform for Molecular Generation Models. <i>Frontiers in Pharmacology</i> , 2020 , 11, 565644	5.6	82
123	Artificial intelligence, drug repurposing and peer review. <i>Nature Biotechnology</i> , 2020 , 38, 1127-1131	44.5	35
122	GULP1 regulates the NRF2-KEAP1 signaling axis in urothelial carcinoma. <i>Science Signaling</i> , 2020 , 13,	8.8	8
121	Deep learning enables rapid identification of potent DDR1 kinase inhibitors. <i>Nature Biotechnology</i> , 2019 , 37, 1038-1040	44.5	338
120	PIM1 kinase promotes gallbladder cancer cell proliferation via inhibition of proline-rich Akt substrate of 40 kDa (PRAS40). <i>Journal of Cell Communication and Signaling</i> , 2019 , 13, 163-177	5.2	8
119	The Advent of Human Life Data Economics. <i>Trends in Molecular Medicine</i> , 2019 , 25, 566-570	11.5	4
118	The Neuronal Overexpression of in Induces Life Extension With Longevity-Associated Transcriptomic Changes in the Thorax. <i>Frontiers in Genetics</i> , 2019 , 10, 149	4.5	5
117	Effects of unpaired 1 gene overexpression on the lifespan of <i>Drosophila melanogaster</i> . <i>BMC Systems Biology</i> , 2019 , 13, 16	3.5	2
116	Identification of Novel Antibacterials Using Machine Learning Techniques. <i>Frontiers in Pharmacology</i> , 2019 , 10, 913	5.6	17
115	Immune profiles in primary squamous cell carcinoma of the head and neck. <i>Oral Oncology</i> , 2019 , 96, 77-84	8.4	32
114	Transcriptome Analysis of Long-lived <i>Drosophila melanogaster</i> E(z) Mutants Sheds Light on the Molecular Mechanisms of Longevity. <i>Scientific Reports</i> , 2019 , 9, 9151	4.9	18

113	Deep Aging Clocks: The Emergence of AI-Based Biomarkers of Aging and Longevity. <i>Trends in Pharmacological Sciences</i> , 2019 , 40, 546-549	13.2	23
112	Replicative and radiation-induced aging: a comparison of gene expression profiles. <i>Aging</i> , 2019 , 11, 2378-2387	5.6	8
111	Deep biomarkers of aging and longevity: from research to applications. <i>Aging</i> , 2019 , 11, 10771-10780	5.6	16
110	Deep Integrated Biomarkers of Aging. <i>Healthy Ageing and Longevity</i> , 2019 , 281-291	0.5	3
109	Latest advances in aging research and drug discovery. <i>Aging</i> , 2019 , 11, 9971-9981	5.6	6
108	Artificial intelligence for aging and longevity research: Recent advances and perspectives. <i>Ageing Research Reviews</i> , 2019 , 49, 49-66	12	63
107	Blood Biochemistry Analysis to Detect Smoking Status and Quantify Accelerated Aging in Smokers. <i>Scientific Reports</i> , 2019 , 9, 142	4.9	35
106	Bifunctional immune checkpoint-targeted antibody-ligand traps that simultaneously disable TGF β enhance the efficacy of cancer immunotherapy. <i>Nature Communications</i> , 2018 , 9, 741	17.4	138
105	3D Molecular Representations Based on the Wave Transform for Convolutional Neural Networks. <i>Molecular Pharmaceutics</i> , 2018 , 15, 4378-4385	5.6	40
104	A method of gene expression data transfer from cell lines to cancer patients for machine-learning prediction of drug efficiency. <i>Cell Cycle</i> , 2018 , 17, 486-491	4.7	35
103	Population Specific Biomarkers of Human Aging: A Big Data Study Using South Korean, Canadian, and Eastern European Patient Populations. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 1482-1490	6.4	69
102	Adversarial Threshold Neural Computer for Molecular de Novo Design. <i>Molecular Pharmaceutics</i> , 2018 , 15, 4386-4397	5.6	89
101	Machine Learning on Human Muscle Transcriptomic Data for Biomarker Discovery and Tissue-Specific Drug Target Identification. <i>Frontiers in Genetics</i> , 2018 , 9, 242	4.5	68
100	Use of deep neural network ensembles to identify embryonic-fetal transition markers: repression of in embryonic and cancer cells. <i>Oncotarget</i> , 2018 , 9, 7796-7811	3.3	18
99	Converging blockchain and next-generation artificial intelligence technologies to decentralize and accelerate biomedical research and healthcare. <i>Oncotarget</i> , 2018 , 9, 5665-5690	3.3	215
98	Effects of N-acetyl-L-cysteine on lifespan, locomotor activity and stress-resistance of 3 species with different lifespans. <i>Aging</i> , 2018 , 10, 2428-2458	5.6	22
97	Overexpression of and genes affects lifespan, stress resistance and locomotor activity in. <i>Aging</i> , 2018 , 10, 3260-3272	5.6	14
96	Role of the NOTCH Signaling Pathway in Head and Neck Cancer. <i>Current Cancer Research</i> , 2018 , 229-248	0.2	1

95	Targeting focal adhesion kinase overcomes erlotinib resistance in smoke induced lung cancer by altering phosphorylation of epidermal growth factor receptor. <i>Oncoscience</i> , 2018 , 5, 21-38	0.8	9
94	Aging and drug discovery. <i>Aging</i> , 2018 , 10, 3079-3088	5.6	16
93	PhotoAgeClock: deep learning algorithms for development of non-invasive visual biomarkers of aging. <i>Aging</i> , 2018 , 10, 3249-3259	5.6	36
92	Vive la radiorésistance!: converging research in radiobiology and biogerontology to enhance human radioresistance for deep space exploration and colonization. <i>Oncotarget</i> , 2018 , 9, 14692-14722	3.3	38
91	Entangled Conditional Adversarial Autoencoder for de Novo Drug Discovery. <i>Molecular Pharmaceutics</i> , 2018 , 15, 4398-4405	5.6	99
90	Reinforced Adversarial Neural Computer for de Novo Molecular Design. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 1194-1204	6.1	151
89	Integrated transcriptomic and epigenomic analysis of ovarian cancer reveals epigenetically silenced GULP1. <i>Cancer Letters</i> , 2018 , 433, 242-251	9.9	12
88	SMAD4 Loss Is Associated with Cetuximab Resistance and Induction of MAPK/JNK Activation in Head and Neck Cancer Cells. <i>Clinical Cancer Research</i> , 2017 , 23, 5162-5175	12.9	41
87	analysis of pathways activation landscape in oral squamous cell carcinoma and oral leukoplakia. <i>Cell Death Discovery</i> , 2017 , 3, 17022	6.9	22
86	An analysis of gene expression data involving examination of signaling pathways activation reveals new insights into the mechanism of action of minoxidil topical foam in men with androgenetic alopecia. <i>Cell Cycle</i> , 2017 , 16, 1578-1584	4.7	7
85	The DrugAge database of aging-related drugs. <i>Aging Cell</i> , 2017 , 16, 594-597	9.9	71
84	A review of the biomedical innovations for healthy longevity. <i>Aging</i> , 2017 , 9, 7-25	5.6	18
83	The cornucopia of meaningful leads: Applying deep adversarial autoencoders for new molecule development in oncology. <i>Oncotarget</i> , 2017 , 8, 10883-10890	3.3	158
82	Data aggregation at the level of molecular pathways improves stability of experimental transcriptomic and proteomic data. <i>Cell Cycle</i> , 2017 , 16, 1810-1823	4.7	35
81	A comparative review of computational methods for pathway perturbation analysis: dynamical and topological perspectives. <i>Molecular BioSystems</i> , 2017 , 13, 1692-1704		5
80	Potentialities of MicroRNA Diagnosis in Patients with Bladder Cancer. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 164, 106-108	0.8	2
79	druGAN: An Advanced Generative Adversarial Autoencoder Model for de Novo Generation of New Molecules with Desired Molecular Properties in Silico. <i>Molecular Pharmaceutics</i> , 2017 , 14, 3098-3104	5.6	224
78	Design of efficient computational workflows for in silico drug repurposing. <i>Drug Discovery Today</i> , 2017 , 22, 210-222	8.8	94

77	The Evaluation of Geroprotective Effects of Selected Flavonoids in and. <i>Frontiers in Pharmacology</i> , 2017 , 8, 884	5.6	10
76	Towards natural mimetics of metformin and rapamycin. <i>Aging</i> , 2017 , 9, 2245-2268	5.6	57
75	Residual γ H2AX foci induced by low dose x-ray radiation in bone marrow mesenchymal stem cells do not cause accelerated senescence in the progeny of irradiated cells. <i>Aging</i> , 2017 , 9, 2397-2410	5.6	17
74	γ H2AX, 53BP1 and Rad51 protein foci changes in mesenchymal stem cells during prolonged X-ray irradiation. <i>Oncotarget</i> , 2017 , 8, 64317-64329	3.3	23
73	In silico Pathway Activation Network Decomposition Analysis (iPANDA) as a method for biomarker development. <i>Nature Communications</i> , 2016 , 7, 13427	17.4	70
72	Early stage of cytomegalovirus infection suppresses host microRNA expression regulation in human fibroblasts. <i>Cell Cycle</i> , 2016 , 15, 3378-3389	4.7	10
71	Differential expression of alternatively spliced transcripts related to energy metabolism in colorectal cancer. <i>BMC Genomics</i> , 2016 , 17, 1011	4.5	35
70	Common pathway signature in lung and liver fibrosis. <i>Cell Cycle</i> , 2016 , 15, 1667-73	4.7	33
69	Applications of Deep Learning in Biomedicine. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1445-54	5.6	368
68	Aging Chart: a community resource for rapid exploratory pathway analysis of age-related processes. <i>Nucleic Acids Research</i> , 2016 , 44, D894-9	20.1	8
67	In search for geroprotectors: in silico screening and in vitro validation of signalome-level mimetics of young healthy state. <i>Aging</i> , 2016 , 8, 2127-2152	5.6	43
66	Accumulation of spontaneous γ H2AX foci in long-term cultured mesenchymal stromal cells. <i>Aging</i> , 2016 , 8, 3498-3506	5.6	15
65	Cancer megafunds with in silico and in vitro validation: accelerating cancer drug discovery via financial engineering without financial crisis. <i>Oncotarget</i> , 2016 , 7, 57671-57678	3.3	4
64	Deep biomarkers of human aging: Application of deep neural networks to biomarker development. <i>Aging</i> , 2016 , 8, 1021-33	5.6	171
63	Molecular pathway activation features of pediatric acute myeloid leukemia (AML) and acute lymphoblast leukemia (ALL) cells. <i>Aging</i> , 2016 , 8, 2936-2947	5.6	13
62	Large-scale profiling of signalling pathways reveals an asthma specific signature in bronchial smooth muscle cells. <i>Oncotarget</i> , 2016 , 7, 25150-61	3.3	19
61	Molecular pathway activation features linked with transition from normal skin to primary and metastatic melanomas in human. <i>Oncotarget</i> , 2016 , 7, 656-70	3.3	28
60	Effect of lentivirus-mediated shRNA inactivation of HK1, HK2, and HK3 genes in colorectal cancer and melanoma cells. <i>BMC Genetics</i> , 2016 , 17, 156	2.6	26

59	Pro-fibrotic pathway activation in trabecular meshwork and lamina cribrosa is the main driving force of glaucoma. <i>Cell Cycle</i> , 2016 , 15, 1643-52	4.7	28
58	Deep Learning Applications for Predicting Pharmacological Properties of Drugs and Drug Repurposing Using Transcriptomic Data. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2524-30	5.6	264
57	MiRImpact, a new bioinformatic method using complete microRNA expression profiles to assess their overall influence on the activity of intracellular molecular pathways. <i>Cell Cycle</i> , 2016 , 15, 689-98	4.7	18
56	Developing criteria for evaluation of geroprotectors as a key stage toward translation to the clinic. <i>Aging Cell</i> , 2016 , 15, 407-15	9.9	63
55	Molecular functions of human endogenous retroviruses in health and disease. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 3653-75	10.3	57
54	New bioinformatic tool for quick identification of functionally relevant endogenous retroviral inserts in human genome. <i>Cell Cycle</i> , 2015 , 14, 1476-84	4.7	17
53	Fucoxanthin increases lifespan of <i>Drosophila melanogaster</i> and <i>Caenorhabditis elegans</i> . <i>Pharmacological Research</i> , 2015 , 100, 228-41	10.2	47
52	Interview with Alex Zhavoronkov, PhD. <i>Rejuvenation Research</i> , 2015 , 18, 366-70	2.6	
51	Lifespan and Stress Resistance in <i>Drosophila</i> with Overexpressed DNA Repair Genes. <i>Scientific Reports</i> , 2015 , 5, 15299	4.9	45
50	Pathway activation strength is a novel independent prognostic biomarker for cetuximab sensitivity in colorectal cancer patients. <i>Human Genome Variation</i> , 2015 , 2, 15009	1.8	36
49	Classifying aging as a disease in the context of ICD-11. <i>Frontiers in Genetics</i> , 2015 , 6, 326	4.5	33
48	Screening and personalizing nootropic drugs and cognitive modulator regimens in silico. <i>Frontiers in Systems Neuroscience</i> , 2015 , 9, 4	3.5	7
47	Combinatorial high-throughput experimental and bioinformatic approach identifies molecular pathways linked with the sensitivity to anticancer target drugs. <i>Oncotarget</i> , 2015 , 6, 27227-38	3.3	19
46	Activation of homologous recombination DNA repair in human skin fibroblasts continuously exposed to X-ray radiation. <i>Oncotarget</i> , 2015 , 6, 26876-85	3.3	22
45	Influence of non-steroidal anti-inflammatory drugs on <i>Drosophila melanogaster</i> longevity. <i>Oncotarget</i> , 2015 , 6, 19428-44	3.3	39
44	Longevity expectations in the pension fund, insurance, and employee benefits industries. <i>Psychology Research and Behavior Management</i> , 2015 , 8, 27-39	3.8	3
43	Signaling pathway activation drift during aging: Hutchinson-Gilford Progeria Syndrome fibroblasts are comparable to normal middle-age and old-age cells. <i>Aging</i> , 2015 , 7, 26-37	5.6	51
42	Geroprotectors.org: a new, structured and curated database of current therapeutic interventions in aging and age-related disease. <i>Aging</i> , 2015 , 7, 616-28	5.6	65

41	Quantifying signaling pathway activation to monitor the quality of induced pluripotent stem cells. <i>Oncotarget</i> , 2015 , 6, 23204-12	3.3	10
40	Low doses of X-rays induce prolonged and ATM-independent persistence of γ H2AX foci in human gingival mesenchymal stem cells. <i>Oncotarget</i> , 2015 , 6, 27275-87	3.3	40
39	A method for predicting target drug efficiency in cancer based on the analysis of signaling pathway activation. <i>Oncotarget</i> , 2015 , 6, 29347-56	3.3	41
38	Models of Innate Neural Attractors and Their Applications for Neural Information Processing. <i>Frontiers in Systems Neuroscience</i> , 2015 , 9, 178	3.5	7
37	Genetics and epigenetics of aging and longevity. <i>Cell Cycle</i> , 2014 , 13, 1063-77	4.7	111
36	The effects of pectins on life span and stress resistance in <i>Drosophila melanogaster</i> . <i>Biogerontology</i> , 2014 , 15, 113-27	4.5	15
35	A role for G-CSF and GM-CSF in nonmyeloid cancers. <i>Cancer Medicine</i> , 2014 , 3, 737-46	4.8	70
34	Molecular aspects of development and regulation of endometriosis. <i>Reproductive Biology and Endocrinology</i> , 2014 , 12, 50	5	72
33	Signaling pathway cloud regulation for in silico screening and ranking of the potential geroprotective drugs. <i>Frontiers in Genetics</i> , 2014 , 5, 49	4.5	39
32	Exhaustive data mining comparison of the effects of low doses of ionizing radiation, formaldehyde and dioxins. <i>BMC Genomics</i> , 2014 , 15 Suppl 12, S5	4.5	5
31	Oncofinder, a new method for the analysis of intracellular signaling pathway activation using transcriptomic data. <i>Frontiers in Genetics</i> , 2014 , 5, 55	4.5	60
30	The OncoFinder algorithm for minimizing the errors introduced by the high-throughput methods of transcriptome analysis. <i>Frontiers in Molecular Biosciences</i> , 2014 , 1, 8	5.6	46
29	Signaling pathways activation profiles make better markers of cancer than expression of individual genes. <i>Oncotarget</i> , 2014 , 5, 10198-205	3.3	65
28	DNA comet Giemsa staining for conventional bright-field microscopy. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 6086-95	6.3	10
27	On multilabel classification methods of incompletely labeled biomedical text data. <i>Computational and Mathematical Methods in Medicine</i> , 2014 , 2014, 781807	2.8	8
26	Mineralization of the connective tissue: a complex molecular process leading to age-related loss of function. <i>Rejuvenation Research</i> , 2014 , 17, 116-33	2.6	18
25	Pathway activation profiling reveals new insights into age-related macular degeneration and provides avenues for therapeutic interventions. <i>Aging</i> , 2014 , 6, 1064-75	5.6	37
24	Interactome analysis of myeloid-derived suppressor cells in murine models of colon and breast cancer. <i>Oncotarget</i> , 2014 , 5, 11345-53	3.3	27

23	Novel robust biomarkers for human bladder cancer based on activation of intracellular signaling pathways. <i>Oncotarget</i> , 2014 , 5, 9022-32	3.3	36
22	The Case of Nonzero Initial Conditions in the Evolution of the Charge Density Distribution Function for a Spherically Symmetric System. <i>Journal of Applied Mathematics and Physics</i> , 2014 , 02, 495-502	0.3	3
21	The Evolution of the Charge Density Distribution Function for Spherically Symmetric System with Zero Initial Conditions. <i>World Journal of Condensed Matter Physics</i> , 2014 , 04, 33-38	0.5	4
20	From personalized medicine to personalized science: uniting science and medicine for patient-driven, goal-oriented research. <i>Rejuvenation Research</i> , 2013 , 16, 414-8	2.6	12
19	Human-specific endogenous retroviral insert serves as an enhancer for the schizophrenia-linked gene PRODH. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19472-7	11.5	55
18	The role of DNA damage and repair in aging through the prism of Koch-like criteria. <i>Ageing Research Reviews</i> , 2013 , 12, 661-84	12	225
17	Non-invasive prenatal diagnostics of aneuploidy using next-generation DNA sequencing technologies, and clinical considerations. <i>Clinical Chemistry and Laboratory Medicine</i> , 2013 , 51, 1141-54	5.9	13
16	Biomedical progress rates as new parameters for models of economic growth in developed countries. <i>International Journal of Environmental Research and Public Health</i> , 2013 , 10, 5936-52	4.6	15
15	A systematic experimental evaluation of microRNA markers of human bladder cancer. <i>Frontiers in Genetics</i> , 2013 , 4, 247	4.5	17
14	Potential therapeutic approaches for modulating expression and accumulation of defective lamin A in laminopathies and age-related diseases. <i>Journal of Molecular Medicine</i> , 2012 , 90, 1361-89	5.5	19
13	Gadd45 proteins: relevance to aging, longevity and age-related pathologies. <i>Ageing Research Reviews</i> , 2012 , 11, 51-66	12	99
12	Evaluating the impact of recent advances in biomedical sciences and the possible mortality decreases on the future of health care and Social Security in the United States. <i>Pensions</i> , 2012 , 17, 241-251		5
11	Characteristic patterns of microRNA expression in human bladder cancer. <i>Frontiers in Genetics</i> , 2012 , 3, 310	4.5	29
10	The role of D-GADD45 in oxidative, thermal and genotoxic stress resistance. <i>Cell Cycle</i> , 2012 , 11, 4222-41	4.7	32
9	Methods for structuring scientific knowledge from many areas related to aging research. <i>PLoS ONE</i> , 2011 , 6, e22597	3.7	27
8	Brain-computer interface based on generation of visual images. <i>PLoS ONE</i> , 2011 , 6, e20674	3.7	82
7	Chirality as a problem of biochemical physics. <i>Russian Journal of General Chemistry</i> , 2007 , 77, 1994-2005	0.7	9
6	Potential 2019-nCoV 3C-like Protease Inhibitors Designed Using Generative Deep Learning Approaches		14

5	Potential COVID-2019 3C-like Protease Inhibitors Designed Using Generative Deep Learning Approaches	23
4	Potential Non-Covalent SARS-CoV-2 3C-like Protease Inhibitors Designed Using Generative Deep Learning Approaches and Reviewed by Human Medicinal Chemist in Virtual Reality	15
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2	Integrated deep learned transcriptomic and structure-based predictor of clinical trials outcomes	11
1	Human microbiome aging clocks based on deep learning and tandem of permutation feature importance and accumulated local effects	29