

Regina Barzilay

List of Publications by Citations

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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.

35
papers

2,492
citations

18
h-index

38
g-index

38
ext. papers

3,811
ext. citations

11.3
avg, IF

5.68
L-index

#	Paper	IF	Citations
35	A Deep Learning Approach to Antibiotic Discovery. <i>Cell</i> , 2020 , 180, 688-702.e13	56.2	430
34	Prediction of Organic Reaction Outcomes Using Machine Learning. <i>ACS Central Science</i> , 2017 , 3, 434-443	16.8	325
33	Analyzing Learned Molecular Representations for Property Prediction. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 3370-3388	6.1	247
32	A graph-convolutional neural network model for the prediction of chemical reactivity. <i>Chemical Science</i> , 2019 , 10, 370-377	9.4	237
31	Convolutional Embedding of Attributed Molecular Graphs for Physical Property Prediction. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 1757-1772	6.1	191
30	A Deep Learning Mammography-based Model for Improved Breast Cancer Risk Prediction. <i>Radiology</i> , 2019 , 292, 60-66	20.5	179
29	Modeling Local Coherence: An Entity-Based Approach. <i>Computational Linguistics</i> , 2008 , 34, 1-34	2.8	142
28	Mammographic Breast Density Assessment Using Deep Learning: Clinical Implementation. <i>Radiology</i> , 2019 , 290, 52-58	20.5	97
27	High-Risk Breast Lesions: A Machine Learning Model to Predict Pathologic Upgrade and Reduce Unnecessary Surgical Excision. <i>Radiology</i> , 2018 , 286, 810-818	20.5	86
26	A Deep Learning Model to Triage Screening Mammograms: A Simulation Study. <i>Radiology</i> , 2019 , 293, 38-46	20.5	67
25	Using machine learning to parse breast pathology reports. <i>Breast Cancer Research and Treatment</i> , 2017 , 161, 203-211	4.4	65
24	Current and Future Roles of Artificial Intelligence in Medicinal Chemistry Synthesis. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 8667-8682	8.3	53
23	Uncertainty Quantification Using Neural Networks for Molecular Property Prediction. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 3770-3780	6.1	47
22	Applications of Deep Learning in Molecule Generation and Molecular Property Prediction. <i>Accounts of Chemical Research</i> , 2021 , 54, 263-270	24.3	39
21	Machine Learning Methods to Extract Documentation of Breast Cancer Symptoms From Electronic Health Records. <i>Journal of Pain and Symptom Management</i> , 2018 , 55, 1492-1499	4.8	38
20	Aspect-augmented Adversarial Networks for Domain Adaptation. <i>Transactions of the Association for Computational Linguistics</i> , 2017 , 5, 515-528	5.6	30
19	Toward robust mammography-based models for breast cancer risk. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	25

18	Using deep learning for dermatologist-level detection of suspicious pigmented skin lesions from wide-field images. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	18
17	Deep learning identifies synergistic drug combinations for treating COVID-19. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	18
16	Can machine learning improve patient selection for cardiac resynchronization therapy?. <i>PLoS ONE</i> , 2019 , 14, e0222397	3.7	17
15	Machine learning to parse breast pathology reports in Chinese. <i>Breast Cancer Research and Treatment</i> , 2018 , 169, 243-250	4.4	17
14	Pathologic findings in reduction mammoplasty specimens: a surrogate for the population prevalence of breast cancer and high-risk lesions. <i>Breast Cancer Research and Treatment</i> , 2019 , 173, 201-207	4.4	17
13	Deep Learning to Estimate RECIST in Patients with NSCLC Treated with PD-1 Blockade. <i>Cancer Discovery</i> , 2021 , 11, 59-67	24.4	16
12	The Limitations of Stylometry for Detecting Machine-Generated Fake News. <i>Computational Linguistics</i> , 2020 , 46, 499-510	2.8	12
11	Towards efficient discovery of green synthetic pathways with Monte Carlo tree search and reinforcement learning. <i>Chemical Science</i> , 2020 , 11, 10959-10972	9.4	12
10	Multi-Institutional Validation of a Mammography-Based Breast Cancer Risk Model. <i>Journal of Clinical Oncology</i> , 2021 , JCO2101337	2.2	11
9	Incidental breast carcinoma: incidence, management, and outcomes in 4804 bilateral reduction mammoplasties. <i>Breast Cancer Research and Treatment</i> , 2019 , 177, 741-748	4.4	9
8	Representation Learning for Grounded Spatial Reasoning. <i>Transactions of the Association for Computational Linguistics</i> , 2018 , 6, 49-61	5.6	8
7	Deep Learning Model to Assess Cancer Risk on the Basis of a Breast MR Image Alone. <i>American Journal of Roentgenology</i> , 2019 , 213, 227-233	5.4	7
6	Critical assessment of AI in drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2021 , 16, 937-947	6.2	7
5	Atypical ductal hyperplasia in men with gynecomastia: what is their breast cancer risk?. <i>Breast Cancer Research and Treatment</i> , 2019 , 175, 1-4	4.4	5
4	Optimizing risk-based breast cancer screening policies with reinforcement learning.. <i>Nature Medicine</i> , 2022 ,	50.5	3
3	Generative models for molecular discovery: Recent advances and challenges. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> ,	7.9	2
2	Exploiting Rules to Enhance Machine Learning in Extracting Information From Multi-Institutional Prostate Pathology Reports. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 865-874	5.2	1
1	Reply to M. Eriksson et al and Z. Jin et al.. <i>Journal of Clinical Oncology</i> , 2022 , JCO2200292	2.2	

