Sarah Akers

List of Publications by Year
in descending order

18 papers	180 citations	1307594 7 h-index	1125743 13 g-index
18 all docs	18 docs citations	18 times ranked	265 citing authors

#	Article	IF	Citations
1	Lipid Mini-On: mining and ontology tool for enrichment analysis of lipidomic data. Bioinformatics, 2019, 35, 4507-4508.	4.1	38
2	Rapid and flexible segmentation of electron microscopy data using few-shot machine learning. Npj Computational Materials, 2021, 7, .	8.7	37
3	Prediction of the development of islet autoantibodies through integration of environmental, genetic, and metabolic markers. Journal of Diabetes, 2021, 13, 143-153.	1.8	25
4	An Automated Scanning Transmission Electron Microscope Guided by Sparse Data Analytics. Microscopy and Microanalysis, 2022, 28, 1611-1621.	0.4	15
5	Extending Classification Algorithms to Case-Control Studies. Biomedical Engineering and Computational Biology, 2019, 10, 117959721985895.	2.0	12
6	Design of a graphical user interface for few-shot machine learning classification of electron microscopy data. Computational Materials Science, 2022, 203, 111121.	3.0	12
7	Integration of Infant Metabolite, Genetic, and Islet Autoimmunity Signatures to Predict Type 1 Diabetes by Age 6 Years. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 2329-2338.	3.6	10
8	The role of Nanocartography in the Development of Automated TEM. Microscopy and Microanalysis, 2021, 27, 2986-2987.	0.4	9
9	Bayesian Model Averaging for Ensemble-Based Estimates of Solvation-Free Energies. Journal of Physical Chemistry B, 2017, 121, 3458-3472.	2.6	8
10	Characterizing the Relative Importance Assigned to Physical Variables by Climate Scientists when Assessing Atmospheric Climate Model Fidelity. Advances in Atmospheric Sciences, 2018, 35, 1101-1113.	4.3	6
11	Implementing Sub-sampling Methods for Low-Dose (Scanning) Transmission Electron Microscopy (S/TEM). Microscopy and Microanalysis, 2017, 23, 82-83.	0.4	2
12	Implementing Sparse Sub-Sampling Methods for Low-Dose/High Speed STEM. Microscopy and Microanalysis, 2018, 24, 1952-1953.	0.4	2
13	Event detection for undersampled electron microscopy experiments: A control chart case study. Quality Engineering, 2020, 32, 244-254.	1.1	2
14	Controlling the Reaction Process in Operando STEM by Pixel Sub-Sampling. Microscopy and Microanalysis, 2017, 23, 98-99.	0.4	1
15	Quantitative Mapping of Nanoscale Chemical Dynamics in Sub‐Sampled Operando (S)TEM Images using Spatio‐Temporal Analytics. ChemCatChem, 2018, 10, 3115-3120.	3.7	1
16	Reliable Event Detection for Incomplete and Streaming (S)TEM Images. Microscopy and Microanalysis, 2017, 23, 158-159.	0.4	0
17	Quantifying Feature Uncertainty in Sub-sampled Low-dose (S)TEM Images. Microscopy and Microanalysis, 2017, 23, 160-161.	0.4	0
18	Rapid and Flexible Few Shot Learning-Based Classification of Scanning Transmission Electron Microscopy Data. Microscopy and Microanalysis, 2021, 27, 1618-1619.	0.4	0