Vida Abedi

List of Publications by Year
in descending order

105 papers	4,647 citations	279487 23 h-index	133063 59 g-index
115 all docs	115 docs citations	115 times ranked	4157 citing authors

#	Article	IF	Citations
1	Global, regional, and national burden of stroke and its risk factors, 1990â€“2019: a systematic analysis for the Global Burden of Disease Study 2019. Lancet Neurology, The, 2021, 20, 795-820.	4.9	2,308
2	Racial, Economic, and Health Inequality and COVID-19 Infection in the United States. Journal of Racial and Ethnic Health Disparities, 2021, 8, 732-742.	1.8	471
3	Artificial Intelligence Transforms the Future of Health Care. American Journal of Medicine, 2019, 132, 795-801.	0.6	255
4	Genetic basis of lacunar stroke: a pooled analysis of individual patient data and genome-wide association studies. Lancet Neurology, The, 2021, 20, 351-361.	4.9	95
5	Novel Screening Tool for Stroke Using Artificial Neural Network. Stroke, 2017, 48, 1678-1681.	1.0	85
6	Risk of stroke in hospitalized SARS-CoV-2 infected patients: A multinational study. EBioMedicine, 2020, 59, 102939.	2.7	82
7	Challenges in Personalized Nutrition and Health. Frontiers in Nutrition, 2018, 5, 117.	1.6	64
8	SARS-CoV-2 and Stroke Characteristics. Stroke, 2021, 52, e117-e130.	1.0	51
9	COVIDâ€19: Neuroimaging Features of a Pandemic. Journal of Neuroimaging, 2021, 31, 228-243.	1.0	46
10	FABS. Stroke, 2016, 47, 2216-2220.	1.0	43
11	NLRX1 Modulates Immunometabolic Mechanisms Controlling the Hostâ€“Gut Microbiota Interactions during Inflammatory Bowel Disease. Frontiers in Immunology, 2018, 9, 363.	2.2	42
12	Clinical Risk Score for Predicting Recurrence Following a Cerebral Ischemic Event. Frontiers in Neurology, 2019, 10, 1106.	1.1	39
13	Classification of short single-lead electrocardiograms (ECGs) for atrial fibrillation detection using piecewise linear spline and XGBoost. Physiological Measurement, 2018, 39, 104006.	1.2	37
14	A 5-Decade Analysis of Incidence Trends of Ischemic Stroke After Transient Ischemic Attack. JAMA Neurology, 2021, 78, 77.	4.5	36
15	Systems-wide analyses of mucosal immune responses toHelicobacter pyloriat the interface between pathogenicity and symbiosis. Gut Microbes, 2016, 7, 3-21.	4.3	34
16	Estimating the Stochastic Bifurcation Structure of Cellular Networks. PLoS Computational Biology, 2010, 6, e1000699.	1.5	32
17	Modeling the Regulatory Mechanisms by Which NLRX1 Modulates Innate Immune Responses to Helicobacter pylori Infection. PLoS ONE, 2015, 10, e0137839.	1.1	32
18	Imputation of missing values for electronic health record laboratory data. Npj Digital Medicine, 2021, 4, 147.	5.7	32

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19	Multiscale modeling of mucosal immune responses. BMC Bioinformatics, 2015, 16, S2.	1.2	29
20	Modeling the Mechanisms by Which HIV-Associated Immunosuppression Influences HPV Persistence at the Oral Mucosa. PLoS ONE, 2017, 12, e0168133.	1.1	29
21	Modeling new immunoregulatory therapeutics as antimicrobial alternatives for treating Clostridium difficile infection. Artificial Intelligence in Medicine, 2017, 78, 1-13.	3.8	28
22	Prediction of Long-Term Stroke Recurrence Using Machine Learning Models. Journal of Clinical Medicine, 2021, 10, 1286.	1.0	28
23	Obesity and mortality after the first ischemic stroke: Is obesity paradox real?. PLoS ONE, 2021, 16, e0246877.	1.1	26
24	Modeling-Enabled Characterization of Novel NLRX1 Ligands. PLoS ONE, 2015, 10, e0145420.	1.1	25
25	Bistability analyses of CD4+ T follicular helper and regulatory cells during Helicobacter pylori infection. Journal of Theoretical Biology, 2016, 398, 74-84.	0.8	25
26	Systems Modeling of Interactions between Mucosal Immunity and the Gut Microbiome during Clostridium difficile Infection. PLoS ONE, 2015, 10, e0134849.	1.1	25
27	Sensitivity Analysis of an ENteric Immunity SImulator (ENISI)-Based Model of Immune Responses to Helicobacter pylori Infection. PLoS ONE, 2015, 10, e0136139.	1.1	24
28	Cysteine-Altering NOTCH3 Variants Are a Risk Factor for Stroke in the Elderly Population. Stroke, 2020, 51, 3562-3569.	1.0	24
29	Using artificial intelligence for improving stroke diagnosis in emergency departments: a practical framework. Therapeutic Advances in Neurological Disorders, 2020, 13, 175628642093896.	1.5	22
30	Modeling-Enabled Systems Nutritional Immunology. Frontiers in Nutrition, 2016, 3, 5.	1.6	21
31	Trends in ischemic stroke outcomes in a rural population in the United States. Journal of the Neurological Sciences, 2021, 422, 117339.	0.3	19
32	Rate and associated factors of transient ischemic attack misdiagnosis. ENeurologicalSci, 2019, 15, 100193.	0.5	18
33	Malnutrition, Health and the Role of Machine Learning in Clinical Setting. Frontiers in Nutrition, 2020, 7, 44.	1.6	18
34	Predicting short and long-term mortality after acute ischemic stroke using EHR. Journal of the Neurological Sciences, 2021, 427, 117560.	0.3	18
35	Polygenic Risk Scores Augment Stroke Subtyping. Neurology: Genetics, 2021, 7, e560.	0.9	17
36	Machine Learning-Enabled 30-Day Readmission Model for Stroke Patients. Frontiers in Neurology, 2021, 12, 638267.	1.1	16

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37	SARS-CoV-2 Is a Culprit for Some, but Not All Acute Ischemic Strokes: A Report from the Multinational COVID-19 Stroke Study Group. Journal of Clinical Medicine, 2021, 10, 931.	1.0	16
38	Quantitative Epistasis Analysis and Pathway Inference from Genetic Interaction Data. PLoS Computational Biology, 2011, 7, e1002048.	1.5	15
39	Supervised learning methods in modeling of CD4+ T cell heterogeneity. BioData Mining, 2015, 8, 27.	2.2	15
40	Stroke in SARS-CoV-2 Infection: A Pictorial Overview of the Pathoetiology. Frontiers in Cardiovascular Medicine, 2021, 8, 649922.	1.1	15
41	Outcomes of Mechanical Thrombectomy in the Early (<6-hour) and Extended (â‰¥6-hour) Time Window Based Solely on Noncontrast CT and CT Angiography: A Propensity Scoreâ€“Matched Cohort Study. American Journal of Neuroradiology, 2021, 42, 1979-1985.	1.2	15
42	Modeling the Role of Lanthionine Synthetase C-Like 2 (LANCL2) in the Modulation of Immune Responses to Helicobacter pylori Infection. PLoS ONE, 2016, 11, e0167440.	1.1	15
43	Internet-Based Information-Seeking Behavior for Transient Ischemic Attack. International Journal of Stroke, 2015, 10, 1212-1216.	2.9	14
44	Ordinary Differential Equations (ODEs) Based Modeling. , 2016, , 63-78.		14
45	Genetic susceptibility to cerebrovascular disease: A systematic review. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1853-1871.	2.4	14
46	Dissecting genetic factors affecting phenylephrine infusion rates during anesthesia: a genome-wide association study employing EHR data. BMC Medicine, 2019, 17, 168.	2.3	14
47	Early Detection of Septic Shock Onset Using Interpretable Machine Learners. Journal of Clinical Medicine, 2021, 10, 301.	1.0	14
48	Sex disparity in long-term stroke recurrence and mortality in a rural population in the United States. Therapeutic Advances in Neurological Disorders, 2020, 13, 175628642097189.	1.5	14
49	High-resolution computational modeling of immune responses in the gut. GigaScience, 2019, 8, .	3.3	13
50	At the Intersection of Gut Microbiome and Stroke: A Systematic Review of the Literature. Frontiers in Neurology, 2021, 12, 729399.	1.1	13
51	CADASIL vs. Multiple Sclerosis: Is It Misdiagnosis or Concomitant? A Case Series. Frontiers in Neurology, 2020, 11, 860.	1.1	12
52	Six-Month Outcome of Transient Ischemic Attack and Its Mimics. Frontiers in Neurology, 2019, 10, 294.	1.1	11
53	An automated framework for hypotheses generation using literature. BioData Mining, 2012, 5, 13.	2.2	10
54	A predictive analytics model for differentiating between transient ischemic attacks (TIA) and its mimics. BMC Medical Informatics and Decision Making, 2020, 20, 112.	1.5	10

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55	Identification of new regulatory genes through expression pattern analysis of a global RNA-seq dataset from a Helicobacter pyloriÂco-culture system. Scientific Reports, 2020, 10, 11506.	1.6	9
56	Increasing the Density of Laboratory Measures for Machine Learning Applications. Journal of Clinical Medicine, 2021, 10, 103.	1.0	8
57	Risk of Subsequent Stroke Among Patients Receiving Outpatient vs Inpatient Care for Transient Ischemic Attack. JAMA Network Open, 2022, 5, e2136644.	2.8	8
58	Empirical study using network of semantically related associations in bridging the knowledge gap. Journal of Translational Medicine, 2014, 12, 324.	1.8	7
59	Effects of White Matter Hyperintensities on 90-Day Functional Outcome after Large Vessel and Non-Large Vessel Stroke. Cerebrovascular Diseases, 2020, 49, 419-426.	0.8	7
60	Abstract P81: SARS-CoV-2 and Stroke Characteristics a Report From the Multinational COVID-19 Stroke Study Group. Stroke, 2021, 52, .	1.0	7
61	â€œLessons Learnedâ€•Preventing Recurrent Ischemic Strokes through Secondary Prevention Programs: A Systematic Review. Journal of Clinical Medicine, 2021, 10, 4209.	1.0	7
62	Social Determinants of Stroke Hospitalization and Mortality in United Statesâ€™ Counties. Journal of Clinical Medicine, 2022, 11, 4101.	1.0	7
63	Agent-Based Modeling and High Performance Computing. , 2016, , 79-111.		6
64	Multi-Resolution Sensitivity Analysis of Model of Immune Response to Helicobacter pylori Infection via Spatio-Temporal Metamodeling. Frontiers in Applied Mathematics and Statistics, 2019, 5, .	0.7	6
65	ENISI multiscale modeling of mucosal immune responses driven by high performance computing. , 2015, , .		5
66	Development of Synthetic Patient Populations and In Silico Clinical Trials. , 2018, , 57-77.		5
67	Replication of Top Loci From COL4A1/2 Associated With White Matter Hyperintensity Burden in Patients With Ischemic Stroke. Stroke, 2020, 51, 3751-3755.	1.0	5
68	Adherence to anticoagulant guideline for atrial fibrillation: A large care gap among stroke patients in a rural population. Journal of the Neurological Sciences, 2021, 424, 117410.	0.3	5
69	Deep Ensemble Network for Quantification and Severity Assessment of Knee Osteoarthritis. , 2019, , .		4
70	Abstract P88: Risk of Stroke in Hospitalized SARS-Cov-2 Infected Patients a Multinational Population-Based Study. Stroke, 2021, 52, .	1.0	4
71	Variants at the MHC Region Associate With Susceptibility to Clostridioides difficile Infection: A Genome-Wide Association Study Using Comprehensive Electronic Health Records. Frontiers in Immunology, 2021, 12, 638913.	2.2	4
72	Artificial Intelligence: A Shifting Paradigm in Cardio-Cerebrovascular Medicine. Journal of Clinical Medicine, 2021, 10, 5710.	1.0	4

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73	Fast-Track Long Term Continuous Heart Monitoring in a Stroke Clinic: A Feasibility Study. Frontiers in Neurology, 2019, 10, 1400.	1.1	3
74	Comparison of Long-Term Outcomes and Associated Factors between Younger and Older Rural Ischemic Stroke Patients. Journal of Clinical Medicine, 2022, 11, 1430.	1.0	3
75	Supervised Learning with the Artificial Neural Networks Algorithm for Modeling Immune Cell Differentiation. , 2015, , 1-18.		2
76	Literature Mining and Ontology Mapping Applied to Big Data. , 2015, , 184-208.		2
77	Multiscale Modeling. , 2016, , 145-173.		2
78	Intravenous thrombolysis in ischemic stroke patients with a prior intracranial hemorrhage: a meta-analysis. Therapeutic Advances in Neurological Disorders, 2022, 15, 175628642210741.	1.5	2
79	Abstract P699: Trends in Ischemic Stroke Risk Factors and Outcomes in a Rural Population in the United States. Stroke, 2021, 52, .	1.0	1
80	Abstract P670: Obesity and Mortality After the First Ischemic Stroke: Is Obesity Paradox Real?. Stroke, 2021, 52, .	1.0	1
81	Lack of Sex Disparity in Oral Anticoagulation in Atrial Fibrillation Patients Presenting with Ischemic Stroke in a Rural Population. Journal of Clinical Medicine, 2021, 10, 4670.	1.0	1
82	Risk of Cerebrovascular Events in Hospitalized Patients with SARS-CoV-2 Infection. SSRN Electronic Journal, 0, , .	0.4	1
83	Sex-specific association of RAGE and HMGB1 genotype variations with susceptibility to ischemic stroke in Caucasians. Journal of Clinical Neuroscience, 2021, 94, 328-331.	0.8	1
84	Poster: Context-sensitive use of bioinformatics tools with complementary functionalities for hypothesis generation. , 2014, , .		0
85	Obnet: Network of semantic associations for obesity. BMC Bioinformatics, 2014, 15, .	1.2	0
86	Context-sensitive use of bioinformatics tools with complementary functionalities for generation of relevant hypothesis. BMC Bioinformatics, 2014, 15, .	1.2	0
87	From Big Data Analytics and Network Inference to Systems Modeling. , 2016, , 113-144.		0
88	Computational Modeling. , 2016, , 9-29.		0
89	Immunoinformatics Cyberinfrastructure for Modeling and Analytics. , 2016, , 45-61.		0
90	Modeling Exercises. , 2016, , 175-200.		0

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91	From Nutritional Immunology to Drug Development. , 2018, , 41-56.		0
92	The Reply. American Journal of Medicine, 2019, 132, e751.	0.6	0
93	The Reply. American Journal of Medicine, 2020, 133, e69.	0.6	0
94	The Reply. American Journal of Medicine, 2020, 133, e67.	0.6	0
95	Abstract P636: Social Determinants of Stroke Hospitalization and Mortality in the United States. Stroke, 2021, 52, .	1.0	0
96	Abstract P635: Polygenic Risk Scores Augment Stroke Subtyping and Outcome Evaluation. Stroke, 2021, 52, .	1.0	0
97	Abstract P693: Sex Disparity in Long-Term Stroke Recurrence and Mortality in a Rural Population in the United States. Stroke, 2021, 52, .	1.0	0
98	Abstract P158: Outcomes of Patients With a Transient Ischemic Attack Based on Inpatient Versus Urgent Outpatient Evaluations a Systematic Review and Meta-Analysis. Stroke, 2021, 52, .	1.0	0
99	Abstract P308: Machine Learning Based Models of the 30-Day Readmission for Stroke Patients Using Electronic Health Record Data. Stroke, 2021, 52, .	1.0	0
100	Abstract P261: Machine Learning-Enabled Prediction of Long-Term Stroke Recurrence Using Data From Electronic Health Records. Stroke, 2021, 52, .	1.0	0
101	Abstract T P273: Internet-Based Information Seeking Behavior for Transient Ischemic Attack. Stroke, 2015, 46, .	1.0	0
102	Abstract WMP51: Towards a Simplified Method for Ischemic Stroke Subtyping Suitable for Electronic Medical Record Systems. Stroke, 2018, 49, .	1.0	0
103	Abstract 28: Genetic Variants From Lysine-Specific Demethylase 4C (KDM4C) Associated With White Matter Hyperintensity Burden in Ischemic Stroke Patients. Stroke, 2020, 51, .	1.0	0
104	Abstract TP216: Identifying Common Genetic Variants Associated With Fatal Stroke in Incident Ischemic Stroke Patients. Stroke, 2020, 51, .	1.0	0
105	An Integrated Pipeline for Prediction of <i>Clostridioides Difficile</i> Infection. SSRN Electronic Journal, 0, , .	0.4	0