

Anthony B. Costa

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.

56
papers

2,216
citations

21
h-index

47
g-index

60
ext. papers

2,862
ext. citations

5.8
avg. IF

5.05
L-index

#	Paper	IF	Citations
56	Variable generalization performance of a deep learning model to detect pneumonia in chest radiographs: A cross-sectional study. <i>PLoS Medicine</i> , 2018 , 15, e1002683	11.6	390
55	Automated deep-neural-network surveillance of cranial images for acute neurologic events. <i>Nature Medicine</i> , 2018 , 24, 1337-1341	50.5	200
54	Simulated splashes: Elucidating the mechanism of desorption electrospray ionization mass spectrometry. <i>Chemical Physics Letters</i> , 2008 , 464, 1-8	2.5	167
53	Cholesterol sulfate imaging in human prostate cancer tissue by desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 3430-4	7.8	149
52	Simulation of atmospheric transport and droplet-thin film collisions in desorption electrospray ionization. <i>Chemical Communications</i> , 2007 , 3915-7	5.8	124
51	Multivariate statistical differentiation of renal cell carcinomas based on lipidomic analysis by ambient ionization imaging mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2969-78	4.4	122
50	Lipid profiles of canine invasive transitional cell carcinoma of the urinary bladder and adjacent normal tissue by desorption electrospray ionization imaging mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 8758-64	7.8	108
49	New ionization methods and miniature mass spectrometers for biomedicine: DESI imaging for cancer diagnostics and paper spray ionization for therapeutic drug monitoring. <i>Faraday Discussions</i> , 2011 , 149, 247-67; discussion 333-56	3.6	104
48	Multivariate statistical identification of human bladder carcinomas using ambient ionization imaging mass spectrometry. <i>Chemistry - A European Journal</i> , 2011 , 17, 2897-902	4.8	94
47	Rapid direct lipid profiling of bacteria using desorption electrospray ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011 , 301, 37-44	1.9	82
46	2527 Mount Sinai health hackathon: Harnessing the power of collaboration to advance experiential team science education. <i>Journal of Clinical and Translational Science</i> , 2018 , 2, 58-58	0.4	78
45	Natural Language-based Machine Learning Models for the Annotation of Clinical Radiology Reports. <i>Radiology</i> , 2018 , 287, 570-580	20.5	77
44	An attention based deep learning model of clinical events in the intensive care unit. <i>PLoS ONE</i> , 2019 , 14, e0211057	3.7	56
43	Data quality in tissue analysis using desorption electrospray ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 1949-61	4.4	44
42	Federated learning for predicting clinical outcomes in patients with COVID-19. <i>Nature Medicine</i> , 2021 , 27, 1735-1743	50.5	41
41	Navigation-Linked Heads-Up Display in Intracranial Surgery: Early Experience. <i>Operative Neurosurgery</i> , 2018 , 15, 184-193	1.6	39
40	Direct detection of fatty acid ethyl esters using low temperature plasma (LTP) ambient ionization mass spectrometry for rapid bacterial differentiation. <i>Analyst, The</i> , 2011 , 136, 3091-7	5	35

39	Emerging Blockchain Technology Solutions for Modern Healthcare Infrastructure. <i>Journal of Scientific Innovation in Medicine</i> , 2019 , 2,	1.8	29
38	Federated Learning of Electronic Health Records to Improve Mortality Prediction in Hospitalized Patients With COVID-19: Machine Learning Approach. <i>JMIR Medical Informatics</i> , 2021 , 9, e24207	3.6	29
37	Circular arrays of polymer-based miniature rectilinear ion traps. <i>Analyst, The</i> , 2009 , 134, 1338-47	5	25
36	Relationship between dynamical entropy and energy dissipation far from thermodynamic equilibrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16339-43	11.5	24
35	Operator experience determines performance in a simulated computer-based brain tumor resection task. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1853-62	3.9	21
34	Combining Initial Radiographs and Clinical Variables Improves Deep Learning Prognostication in Patients with COVID-19 from the Emergency Department. <i>Radiology: Artificial Intelligence</i> , 2021 , 3, e200098	8.7	21
33	Neurosurgical Skills Assessment: Measuring Technical Proficiency in Neurosurgery Residents Through Intraoperative Video Evaluations. <i>World Neurosurgery</i> , 2016 , 89, 1-8	2.1	20
32	Use of Mixed Reality Visualization in Endoscopic Endonasal Skull Base Surgery. <i>Operative Neurosurgery</i> , 2020 , 19, 43-52	1.6	12
31	United States regulatory approval of medical devices and software applications enhanced by artificial intelligence. <i>Health Policy and Technology</i> , 2019 , 8, 192-197	4.8	11
30	Beacon: Exploring the Deployment and Application of Intel Xeon Phi Coprocessors for Scientific Computing. <i>Computing in Science and Engineering</i> , 2015 , 17, 1-1	1.5	11
29	Federated Learning of Electronic Health Records Improves Mortality Prediction in Patients Hospitalized with COVID-19 2020 ,		9
28	A technical comparison of thrombectomy vacuum aspiration systems. <i>Journal of NeuroInterventional Surgery</i> , 2020 , 12, 72-76	7.8	9
27	Combination of Active Transfer Learning and Natural Language Processing to Improve Liver Volumetry Using Surrogate Metrics with Deep Learning. <i>Radiology: Artificial Intelligence</i> , 2019 , 1, e180019	8.7	8
26	Origin of chiral selectivity in gas-phase serine tetramers. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 877-85	3.6	8
25	Big Omics Data Experience 2015 , 2015,		8
24	Peritumoral Edema Relative to Meningioma Size Predicts Functional Outcomes after Resection in Older Patients. <i>Operative Neurosurgery</i> , 2019 , 16, 281-291	1.6	6
23	A Virtual-Reality, 360-Degree Fly-Through of an Arteriovenous Malformation Resection: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2020 , 18, E11	1.6	6
22	Predicting adult neuroscience intensive care unit admission from emergency department triage using a retrospective, tabular-free text machine learning approach. <i>Scientific Reports</i> , 2021 , 11, 1381	4.9	6

21	Federated Learning used for predicting outcomes in SARS-COV-2 patients 2021 ,		6
20	Extending the length and time scales of Gram-Schmidt Lyapunov vector computations. <i>Journal of Computational Physics</i> , 2013 , 246, 113-122	4.1	4
19	Scalable, effective, and rapid decontamination of SARS-CoV-2 contaminated N95 respirators using germicidal ultraviolet C (UVC) irradiation device. <i>Scientific Reports</i> , 2021 , 11, 19970	4.9	4
18	Robotic surgical rehearsal on patient-specific 3D-printed skull models for stereoelectroencephalography (SEEG). <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 139-145	3.9	4
17	Quantitative Computed Tomography Ventriculography for Assessment and Monitoring of Hydrocephalus: A Pilot Study and Description of Method in Subarachnoid Hemorrhage. <i>World Neurosurgery</i> , 2017 , 104, 136-141	2.1	3
16	Cerebral Radiation Necrosis: An Analysis of Clinical and Quantitative Imaging and Volumetric Features. <i>World Neurosurgery</i> , 2018 , 111, e485-e494	2.1	3
15	Mitral valve repair based on physical characterization of coaptation forces. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 159, e181-e183	1.5	3
14	Stereoscopic virtual reality does not improve knowledge acquisition of congenital heart disease. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 2283-2290	2.5	3
13	Extensivity and additivity of the Kolmogorov-Sinai entropy for simple fluids. <i>Physical Review E</i> , 2017 , 95, 022102	2.4	2
12	Detecting insertion, substitution, and deletion errors in radiology reports using neural sequence-to-sequence models. <i>Annals of Translational Medicine</i> , 2019 , 7, 233	3.2	2
11	Deep anomaly detection of seizures with paired stereoelectroencephalography and video recordings. <i>Scientific Reports</i> , 2021 , 11, 7482	4.9	2
10	Therapeutic hypothermia for intracerebral hemorrhage: Systematic review and meta-analysis of the experimental and clinical literature. <i>International Journal of Stroke</i> , 2021 , 17474930211044870	6.3	2
9	Stimulating the Facial Nerve to Treat Ischemic Stroke: A Systematic Review. <i>Frontiers in Neurology</i> , 2021 , 12, 753182	4.1	1
8	Patient-Specific Cranial Nerve Identification Using a Discrete Deformable Contour Model for Skull Base Neurosurgery Planning and Simulation. <i>Lecture Notes in Computer Science</i> , 2016 , 36-44	0.9	1
7	Body Mass Index Correlates with Skin to Spinal Canal Distance: A Large Retrospective Single-Center Study. <i>Journal of Neuroimaging</i> , 2020 , 30, 896-900	2.8	1
6	Differential Subsampling with Cartesian Ordering for Ultrafast High-Resolution MRA in the Assessment of Intracranial Aneurysms. <i>Journal of Neuroimaging</i> , 2020 , 30, 40-44	2.8	0
5	Outils innovants pour guider la réparation mitrale : méthodes et perspectives. <i>Bulletin De L'Académie Nationale De Médecine</i> , 2020 , 204, 500-507	0.1	
4	A Comparative Study of Industry and Open-Source Efforts for 3D Visualization, Pre- and Intraoperative Planning, and 3D Printing of Skull Base Tumors: A Case Report. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2017 , 78, S1-S156	1.5	

- 3 The Novel Use of 3D Reconstruction and Immersive Neuronavigation for Resection of Skull Base Lesions in Endoscopic Endonasal Skull Base Surgery. *Journal of Neurological Surgery, Part B: Skull Base*, **2017**, 78, S1-S156 1.5
- 2 Artificial intelligence as applied to clinical neurological conditions **2021**, 395-413
- 1 Population scale latent space cohort matching for the improved use and exploration of observational trial data. *Mathematical Biosciences and Engineering*, **2022**, 19, 6795-6813 2.1