

Anthony B. Costa

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,407
citations

257101

24
h-index

197535

49
g-index

60
all docs

60
docs citations

60
times ranked

4859
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.9	771
2	Automated deep-neural-network surveillance of cranial images for acute neurologic events. <i>Nature Medicine</i> , 2018, 24, 1337-1341.	15.2	308
3	Federated learning for predicting clinical outcomes in patients with COVID-19. <i>Nature Medicine</i> , 2021, 27, 1735-1743.	15.2	300
4	Simulated splashes: Elucidating the mechanism of desorption electrospray ionization mass spectrometry. <i>Chemical Physics Letters</i> , 2008, 464, 1-8.	1.2	183
5	Cholesterol Sulfate Imaging in Human Prostate Cancer Tissue by Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 3430-3434.	3.2	170
6	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, 2969-2978.	1.9	137
7	Simulation of atmospheric transport and droplet-thin film collisions in desorption electrospray ionization. <i>Chemical Communications</i> , 2007, , 3915.	2.2	131
8	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, 8758-8764.	3.2	119
9	Natural Language-based Machine Learning Models for the Annotation of Clinical Radiology Reports. <i>Radiology</i> , 2018, 287, 570-580.	3.6	114
10	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, 247-267.	1.6	110
11	An attention based deep learning model of clinical events in the intensive care unit. <i>PLoS ONE</i> , 2019, 14, e0211057.	1.1	108
12	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.	1.3	108
13	Multivariate Statistical Identification of Human Bladder Carcinomas Using Ambient Ionization Imaging Mass Spectrometry. <i>Chemistry - A European Journal</i> , 2011, 17, 2897-2902.	1.7	99
14	Rapid direct lipid profiling of bacteria using desorption electrospray ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 301, 37-44.	0.7	92
15	Emerging Blockchain Technology Solutions for Modern Healthcare Infrastructure. <i>Journal of Scientific Innovation in Medicine</i> , 2019, 2, .	0.1	61
16	Navigation-Linked Heads-Up Display in Intracranial Surgery: Early Experience. <i>Operative Neurosurgery</i> , 2018, 15, 184-193.	0.4	59
17	Data quality in tissue analysis using desorption electrospray ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1949-1961.	1.9	52
18	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.	3.0	47

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19	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.	1.7	37
20	Circular arrays of polymer-based miniature rectilinear ion traps. <i>Analyst, The</i> , 2009, 134, 1338.	1.7	28
21	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, 16339-16343.	3.3	28
22	United States regulatory approval of medical devices and software applications enhanced by artificial intelligence. <i>Health Policy and Technology</i> , 2019, 8, 192-197.	1.3	26
23	Use of Mixed Reality Visualization in Endoscopic Endonasal Skull Base Surgery. <i>Operative Neurosurgery</i> , 2020, 19, 43-52.	0.4	26
24	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, 1853-1862.	1.7	25
25	Neurosurgical Skills Assessment: Measuring Technical Proficiency in Neurosurgery Residents Through Intraoperative Video Evaluations. <i>World Neurosurgery</i> , 2016, 89, 1-8.	0.7	25
26	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.	1.6	20
27	A technical comparison of thrombectomy vacuum aspiration systems. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 72-76.	2.0	16
28	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.	3.0	15
29	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.	1.2	14
30	Peritumoral Edema Relative to Meningioma Size Predicts Functional Outcomes after Resection in Older Patients. <i>Operative Neurosurgery</i> , 2019, 16, 281-291.	0.4	14
31	A Virtual-Reality, 360-Degree Fly-Through of an Arteriovenous Malformation Resection: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2020, 18, E11-E11.	0.4	14
32	Stereoscopic virtual reality does not improve knowledge acquisition of congenital heart disease. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 2283-2290.	0.7	14
33	Therapeutic hypothermia for intracerebral hemorrhage: Systematic review and meta-analysis of the experimental and clinical literature. <i>International Journal of Stroke</i> , 2022, 17, 506-516.	2.9	13
34	Big omics data experience. , 2015, 2015, .		9
35	Origin of chiral selectivity in gas-phase serine tetramers. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 877-885.	1.3	8
36	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.	1.7	8

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37	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.	1.6	8
38	Detecting insertion, substitution, and deletion errors in radiology reports using neural sequence-to-sequence models. <i>Annals of Translational Medicine</i> , 2019, 7, 233-233.	0.7	7
39	Stimulating the Facial Nerve to Treat Ischemic Stroke: A Systematic Review. <i>Frontiers in Neurology</i> , 2021, 12, 753182.	1.1	7
40	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.	1.0	6
41	Deep anomaly detection of seizures with paired stereoelectroencephalography and video recordings. <i>Scientific Reports</i> , 2021, 11, 7482.	1.6	6
42	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.	0.7	5
43	Mitral valve repair based on physical characterization of coaptation forces. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 159, e181-e183.	0.4	5
44	Extending the length and time scales of Gram-Schmidt Lyapunov vector computations. <i>Journal of Computational Physics</i> , 2013, 246, 113-122.	1.9	4
45	Cerebral Radiation Necrosis: An Analysis of Clinical and Quantitative Imaging and Volumetric Features. <i>World Neurosurgery</i> , 2018, 111, e485-e494.	0.7	3
46	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.	1.0	3
47	Extensivity and additivity of the Kolmogorov-Sinai entropy for simple fluids. <i>Physical Review E</i> , 2017, 95, 022102.	0.8	2
48	335-A Modular, Multimodality Integrative Pipeline for Neurosurgery Simulation and Visualization. <i>Neurosurgery</i> , 2016, 63, 198.	0.6	1
49	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.	0.3	1
50	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.	1.0	1
51	FEASIBILITY OF RAPIDLY CREATING HIGH RESOLUTION VIRTUAL THREE-DIMENSIONAL MODELS OF ANOMALOUS AORTIC ORIGIN OF CORONARY ARTERIES. <i>Journal of the American College of Cardiology</i> , 2017, 69, 645.	1.2	0
52	Artificial intelligence as applied to clinical neurological conditions. , 2021, , 395-413.		0
53	The THRIVE COVID-19 Fellowship: Creating a Forum for Collaborative Team Science and Innovation Development. <i>ISMMS Journal of Science and Medicine</i> , 2021, 1, .	0.1	0
54	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.	0.4	0

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55	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.	0.4	0
56	Outils innovants pour guider la réparation mitrale: méthodes et perspectives. Bulletin De L'Academie Nationale De Medecine, 2020, 204, 500-507.	0.0	0
57	Population scale latent space cohort matching for the improved use and exploration of observational trial data. Mathematical Biosciences and Engineering, 2022, 19, 6795-6813.	1.0	0