

# Constantino-Carlos Reyes-Aldasoro

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,792  
citations

331670

21  
h-index

189892

50  
g-index

102  
all docs

102  
docs citations

102  
times ranked

4216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting survival from colorectal cancer histology slides using deep learning: A retrospective multicenter study. <i>PLoS Medicine</i> , 2019, 16, e1002730.	8.4	563
2	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017, 14, 1141-1152.	19.0	399
3	Cxcl8 (IL-8) Mediates Neutrophil Recruitment and Behavior in the Zebrafish Inflammatory Response. <i>Journal of Immunology</i> , 2013, 190, 4349-4359.	0.8	294
4	Activation of hypoxia-inducible factor-1 $\alpha$ (Hif-1 $\alpha$ ) delays inflammation resolution by reducing neutrophil apoptosis and reverse migration in a zebrafish inflammation model. <i>Blood</i> , 2011, 118, 712-722.	1.4	218
5	Neutrophil-Delivered Myeloperoxidase Dampens the Hydrogen Peroxide Burst after Tissue Wounding in Zebrafish. <i>Current Biology</i> , 2012, 22, 1818-1824.	3.9	117
6	Blood Vessel Maturation and Response to Vascular-Disrupting Therapy in Single Vascular Endothelial Growth Factor-A Isoform $\alpha$ -Producing Tumors. <i>Cancer Research</i> , 2008, 68, 2301-2311.	0.9	92
7	The Bhattacharyya space for feature selection and its application to texture segmentation. <i>Pattern Recognition</i> , 2006, 39, 812-826.	8.1	82
8	Quantitative MRI Brain Studies in Mild Cognitive Impairment and Alzheimer's Disease: A Methodological Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2018, 11, 97-111.	18.0	80
9	Repelled from the wound, or randomly dispersed? Reverse migration behaviour of neutrophils characterized by dynamic modelling. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3229-3239.	3.4	55
10	An automatic algorithm for the segmentation and morphological analysis of microvessels in immunostained histological tumour sections. <i>Journal of Microscopy</i> , 2011, 242, 262-278.	1.8	53
11	Continuous representation of tumor microvessel density and detection of angiogenic hotspots in histological whole-slide images. <i>Oncotarget</i> , 2015, 6, 19163-19176.	1.8	53
12	A Robust and Artifact Resistant Algorithm of Ultrawideband Imaging System for Breast Cancer Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1514-1525.	4.2	53
13	Estimation of Apparent Tumor Vascular Permeability from Multiphoton Fluorescence Microscopic Images of P22 Rat Sarcomas In Vivo. <i>Microcirculation</i> , 2008, 15, 65-79.	1.8	51
14	PhagoSight: An Open-Source MATLAB $\text{\textcircled{R}}$ Package for the Analysis of Fluorescent Neutrophil and Macrophage Migration in a Zebrafish Model. <i>PLoS ONE</i> , 2013, 8, e72636.	2.5	41
15	Measuring the velocity of fluorescently labelled red blood cells with a keyhole tracking algorithm. <i>Journal of Microscopy</i> , 2008, 229, 162-173.	1.8	37
16	Arterial Stiffening in Western Diet-Fed Mice Is Associated with Increased Vascular Elastin, Transforming Growth Factor- $\beta$ 2, and Plasma Neuraminidase. <i>Frontiers in Physiology</i> , 2016, 7, 285.	2.8	33
17	Vascular effects dominate solid tumor response to treatment with combretastatin $\text{A}\hat{=}$ 4 $\hat{=}$ phosphate. <i>International Journal of Cancer</i> , 2011, 129, 1979-1989.	5.1	32
18	Drift-Diffusion Analysis of Neutrophil Migration during Inflammation Resolution in a Zebrafish Model. <i>Advances in Hematology</i> , 2012, 2012, 1-8.	1.0	29

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19	Application of intravital microscopy in studies of tumor microcirculation. <i>Journal of Biomedical Optics</i> , 2010, 15, 011113.	2.6	25
20	Retrospective shading correction algorithm based on signal envelope estimation. <i>Electronics Letters</i> , 2009, 45, 454.	1.0	24
21	Prophase-Specific Perinuclear Actin Coordinates Centrosome Separation and Positioning to Ensure Accurate Chromosome Segregation. <i>Cell Reports</i> , 2020, 31, 107681.	6.4	24
22	A Novel Focal Phi Loss for Power Line Segmentation with Auxiliary Classifier U-Net. <i>Sensors</i> , 2021, 21, 2803.	3.8	23
23	The proportion of cancer-related entries in PubMed has increased considerably; is cancer truly “The Emperor of All Maladies”? <i>PLoS ONE</i> , 2017, 12, e0173671.	2.5	21
24	Framework for detection and localization of coronary non-calcified plaques in cardiac CTA using mean radial profiles. <i>Computers in Biology and Medicine</i> , 2017, 89, 84-95.	7.0	20
25	Î2-glucanâ€“dependent shuttling of conidia from neutrophils to macrophages occurs during fungal infection establishment. <i>PLoS Biology</i> , 2019, 17, e3000113.	5.6	20
26	Automatic Gemstone Classification Using Computer Vision. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 60.	2.0	20
27	Segmentation and Modelling of the Nuclear Envelope of HeLa Cells Imaged with Serial Block Face Scanning Electron Microscopy. <i>Journal of Imaging</i> , 2019, 5, 75.	3.0	17
28	Experimental Assessment of Color Deconvolution and Color Normalization for Automated Classification of Histology Images Stained with Hematoxylin and Eosin. <i>Cancers</i> , 2020, 12, 3337.	3.7	17
29	The Neutrophil's Eye-View: Inference and Visualisation of the Chemoattractant Field Driving Cell Chemotaxis In Vivo. <i>PLoS ONE</i> , 2012, 7, e35182.	2.5	17
30	Texture Segmentation: An Objective Comparison between Five Traditional Algorithms and a Deep-Learning U-Net Architecture. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3900.	2.5	16
31	Classification and Visualisation of Normal and Abnormal Radiographs; A Comparison between Eleven Convolutional Neural Network Architectures. <i>Sensors</i> , 2021, 21, 5381.	3.8	16
32	CAIMAN: An online algorithm repository for Cancer Image Analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 103, 97-103.	4.7	15
33	Maternal Hyperleptinemia Is Associated with Male Offspringâ€™s Altered Vascular Function and Structure in Mice. <i>PLoS ONE</i> , 2016, 11, e0155377.	2.5	15
34	Semantic segmentation of HeLa cells: An objective comparison between one traditional algorithm and four deep-learning architectures. <i>PLoS ONE</i> , 2020, 15, e0230605.	2.5	15
35	Volumetric Texture Description and Discriminant Feature Selection for MRI. <i>Lecture Notes in Computer Science</i> , 2003, 18, 282-293.	1.3	15
36	Tumour Cells Expressing Single VEGF Isoforms Display Distinct Growth, Survival and Migration Characteristics. <i>PLoS ONE</i> , 2014, 9, e104015.	2.5	14

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37	An <i>in vivo</i> role for Rho kinase activation in the tumour vascular disrupting activity of combretastatin A $\beta$ 4 3 $\beta$ phosphate. <i>British Journal of Pharmacology</i> , 2014, 171, 4902-4913.	5.4	14
38	Effect of Viscosity and Speed on Oil Cavitation Development in a Single Piston-Ring Lubricant Assembly. <i>Lubricants</i> , 2019, 7, 88.	2.9	12
39	Influence of soluble or matrix-bound isoforms of vascular endothelial growth factor-A on tumor response to vascular-targeted strategies. <i>International Journal of Cancer</i> , 2013, 133, n/a-n/a.	5.1	11
40	Large-scale database mining reveals hidden trends and future directions for cancer immunotherapy. <i>Oncolmmunology</i> , 2018, 7, e1444412.	4.6	11
41	A hybrid model based on dynamic programming, neural networks, and surrogate value for inventory optimisation applications. <i>Journal of the Operational Research Society</i> , 1999, 50, 85-94.	3.4	10
42	Whole cell tracking through the optimal control of geometric evolution laws. <i>Journal of Computational Physics</i> , 2015, 297, 495-514.	3.8	9
43	Segmentation and Shape Analysis of Macrophages Using Anglegram Analysis. <i>Journal of Imaging</i> , 2018, 4, 2.	3.0	8
44	A hybrid energy model for region based curve evolution " Application to CTA coronary segmentation. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 144, 189-202.	4.7	7
45	Geometric semi-automatic analysis of radiographs of Colles <sup>TM</sup> fractures. <i>PLoS ONE</i> , 2020, 15, e0238926.	2.5	7
46	Cell Tracking Profiler: a user-driven analysis framework for evaluating 4D live cell imaging data. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	7
47	Measuring cellular migration with image processing. <i>Electronics Letters</i> , 2008, 44, 791.	1.0	6
48	Visualisation and Analysis of Speech Production with Electropalatography. <i>Journal of Imaging</i> , 2019, 5, 40.	3.0	6
49	Online chromatic and scale-space microvessel-tracing analysis for transmitted light optical images. <i>Microvascular Research</i> , 2012, 84, 330-339.	2.5	5
50	Volumetric Semantic Instance Segmentation of the Plasma Membrane of HeLa Cells. <i>Journal of Imaging</i> , 2021, 7, 93.	3.0	4
51	Microflow of fluorescently labelled red blood cells in tumours expressing single isoforms of VEGF and their response to vascular targeting agents. <i>Medical Engineering and Physics</i> , 2011, 33, 805-809.	1.7	3
52	Shape analysis and tracking of migrating macrophages. , 2018, , .		3
53	Macrosight: A Novel Framework to Analyze the Shape and Movement of Interacting Macrophages Using Matlab <sup>®</sup> . <i>Journal of Imaging</i> , 2019, 5, 17.	3.0	3
54	Morphological Estimation of Cellularity on Neo-Adjuvant Treated Breast Cancer Histological Images. <i>Journal of Imaging</i> , 2020, 6, 101.	3.0	3

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55	Volumetric Texture Analysis in Biomedical Imaging. Advances in Medical Technologies and Clinical Practice Book Series, 0, , 200-248.	0.3	3
56	Automated Segmentation of HeLa Nuclear Envelope from Electron Microscopy Images. Communications in Computer and Information Science, 2018, , 241-250.	0.5	3
57	An Overview of Quantitative Magnetic Resonance Imaging Analysis Studies in the Assessment of Alzheimer's Disease. IFMBE Proceedings, 2016, , 281-286.	0.3	2
58	Microfluidic environment and tracking analysis for the observation of Artemia Franciscana. , 2015, , .		2
59	Radiography Classification: A Comparison between Eleven Convolutional Neural Networks. , 2020, , .		2
60	Local affine texture tracking for serial registration of zebrafish images. , 2012, , .		1
61	Homage to Professor Maria Petrou. Pattern Recognition Letters, 2014, 48, 2-7.	4.2	1
62	Hippocampal and entorhinal cortex volume changes in Alzheimer's disease patients and mild cognitive impairment subjects. , 2018, , .		1
63	Analysis of the Symmetry of Electrodes for Electropalatography with Cone Beam CT Scanning. Communications in Computer and Information Science, 2018, , 130-139.	0.5	1
64	Measuring Red Blood Cell Velocity with a Keyhole Tracking Algorithm. , 2007, , 810-813.		1
65	Automatic segmentation of focal adhesions from mouse embryonic fibroblasts. , 2015, , .		0
66	Comparative Study of Contact Repulsion in Control and Mutant Macrophages Using a Novel Interaction Detection. Journal of Imaging, 2020, 6, 36.	3.0	0
67	Improved CTA Coronary Segmentation with a Volume-Specific Intensity Threshold. Communications in Computer and Information Science, 2017, , 207-218.	0.5	0
68	Topological Analysis of the Vasculature of Angiopoietin-Expressing Tumours Through Scale-Space Tracing. Communications in Computer and Information Science, 2017, , 285-296.	0.5	0
69	Segmentation of Overlapping Macrophages Using Anglegram Analysis. Communications in Computer and Information Science, 2017, , 792-803.	0.5	0
70	A Machine Learning Approach for Colles' Fracture Treatment Diagnosis. Communications in Computer and Information Science, 2020, , 319-330.	0.5	0
71	Detection of Pitt-Hopkins Syndrome Based on Morphological Facial Features. Applied Sciences (Switzerland), 2021, 11, 12086.	2.5	0