# Jean-Christophe Olivo-Marin

List of Publications by Year
in descending order

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|---|---|---|---|
| 201 papers | 13,143 citations | 28242<br>55 h-index | 26591<br>107 g-index |
| 210 all docs | 210 docs citations | 210 times ranked | 16981 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | DHA-containing phospholipids control membrane fusion and transcellular tunnel dynamics. Journal of Cell Science, 2022, 135, . | 1.2 | 4 |
| 2 | 3D cell morphology detection by association for embryo heart morphogenesis. Biological Imaging, 2022, 2, . | 1.0 | 0 |
| 3 | Statistical Coupling Between time Point-Processes. , 2022, , . | | 0 |
| 4 | Characterizing Cell Populations Using Statistical Shape Modes. , 2022, , . | | 1 |
| 5 | Cell Instance Segmentation Using Z-Stacks in Digital Cytology. , 2022, , . | | 3 |
| 6 | Spatial Analysis For Histopathology: A Statistical Approach. , 2022, , . | | 0 |
| 7 | Automated staining analysis in digital cytopathology and applications. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2022, 101, 1068-1083. | 1.1 | 1 |
| 8 | Missing Self-Induced Activation of NK Cells Combines with Non-Complement-Fixing Donor-Specific Antibodies to Accelerate Kidney Transplant Loss in Chronic Antibody-Mediated Rejection. Journal of the American Society of Nephrology: JASN, 2021, 32, 479-494. | 3.0 | 56 |
| 9 | Bioimage Analysis and Cell Motility. Patterns, 2021, 2, 100170. | 3.1 | 12 |
| 10 | Learning to segment clustered amoeboid cells from brightfield microscopy via multi-task learning with adaptive weight selection. , 2021, , . | | 4 |
| 11 | Evaluating the Stability of Spatial Keypoints via Cluster Core Correspondence Index. IEEE Transactions on Image Processing, 2021, 30, 386-401. | 6.0 | 3 |
| 12 | A Min-Max Based Hyperparameter Estimation For Domain-Adapted Segmentation Of Amoeboid Cells. , 2021, , . | | 2 |
| 13 | A Robust and Versatile Framework to Compare Spike Detection Methods in Calcium Imaging of Neuronal Activity. , 2021, , . | | 2 |
| 14 | Nu3D: 3D Nuclei Segmentation from Light-Sheet Microscopy Images of the Embryonic Heart. , 2021, , . | | 1 |
| 15 | Morphological Reconstruction of Detached Dendritic Spines via Geodesic Path Prediction. , 2021, , . | | 0 |
| 16 | Interrogating RNA and protein spatial subcellular distribution in smFISH data with DypFISH. Cell Reports Methods, 2021, 1, 100068. | 1.4 | 11 |
| 17 | Cytokine receptor cluster size impacts its endocytosis and signaling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 16 |
| 18 | Extended Depth of Field Preserving Color Fidelity For Automated Digital Cytology. , 2021, , . | | 1 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Aspergillus fumigatus, One Uninucleate Species with Disparate Offspring. Journal of Fungi (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.5 | 14 |
| 20 | Cell Tracking Profiler: a user-driven analysis framework for evaluating 4D live cell imaging data. Journal of Cell Science, 2020, 133, . | 1.2 | 7 |
| 21 | E-cadherin focuses protrusion formation at the front of migrating cells by impeding actin flow. Nature Communications, 2020, 11, 5397. | 5.8 | 20 |
| 22 | Modeling Shape Dynamics During Cell Motility in Microscopy Videos. , 2020, , . | | 6 |
| 23 | Insights into amebiasis using a human<scp>3D</scp>â€‹intestinal model. Cellular Microbiology, 2020, 22, e13203. | 1.1 | 8 |
| 24 | Generalizing the Statistical Analysis of Objectsâ€™ Spatial Coupling in Bioimaging. IEEE Signal Processing Letters, 2020, 27, 1085-1089. | 2.1 | 4 |
| 25 | Transcriptional Changes in Kidney Allografts with Histology of Antibody-Mediated Rejection without Anti-HLA Donor-Specific Antibodies. Journal of the American Society of Nephrology: JASN, 2020, 31, 2168-2183. | 3.0 | 60 |
| 26 | A Protocol to Quantify Cellular Morphodynamics: From Cell Labelling to Automatic Image Analysis. , 2020, , 351-367. | | 5 |
| 27 | Icytomine: A User-Friendly Tool for Integrating Workflows on Whole Slide Images. Lecture Notes in Computer Science, 2019, , 181-189. | 1.0 | 3 |
| 28 | Tracking and line integration of diffuse cellular subdomains by mesh advection. , 2019, 2019, 6018-6021. | | 1 |
| 29 | Real-time analysis of the behaviour of groups of mice via a depth-sensing camera and machine learning. Nature Biomedical Engineering, 2019, 3, 930-942. | 11.6 | 112 |
| 30 | Fluid dynamics during bleb formation in migrating cells in vivo. PLoS ONE, 2019, 14, e0212699. | 1.1 | 13 |
| 31 | Compressed sensing-enabled phase-sensitive swept-source optical coherence tomography. Optics Express, 2019, 27, 855. | 1.7 | 7 |
| 32 | Crosstalk between <i>Entamoeba histolytica</i> and the human intestinal tract during amoebiasis. Parasitology, 2019, 146, 1140-1149. | 0.7 | 12 |
| 33 | Mapping molecular assemblies with fluorescence microscopy and object-based spatial statistics. Nature Communications, 2018, 9, 698. | 5.8 | 73 |
| 34 | Quantitative and Statistical Study of the Dynamics of Clathrin-Dependent and -Independent Endocytosis Reveal a Differential Role of EndophilinA2. Cell Reports, 2018, 22, 1574-1588. | 2.9 | 22 |
| 35 | Denoising of Microscopy Images: A Review of the State-of-the-Art, and a New Sparsity-Based Method. IEEE Transactions on Image Processing, 2018, 27, 3842-3856. | 6.0 | 63 |
| 36 | Activation of human gonadotropin-releasing hormone receptor promotes down regulation of ARHGAP18 and regulates the cell invasion of MDA-MB-231Âcells. Molecular and Cellular Endocrinology, 2018, 460, 94-103. | 1.6 | 7 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | Multiple variational image assimilation for accessible micro-elastography. Journal of Physics: Conference Series, 2018, 1131, 012014. | 0.3 | 3 |
| 38 | Stress-induced brain activation: buffering role of social behavior and neuronal nicotinic receptors. Brain Structure and Function, 2018, 223, 4259-4274. | 1.2 | 5 |
| 39 | Unsupervised analysis of mouse social behaviour reveals how hyperactivity impacts social aspects in a mouse model of autism. , 2018, , . | | 0 |
| 40 | Morphological operations on polygons using straight skeletons for digital pathology. , 2018, , . | | 1 |
| 41 | Morphodynamics of the Actin-Rich Cytoskeleton in Entamoeba histolytica. Frontiers in Cellular and Infection Microbiology, 2018, 8, 179. | 1.8 | 31 |
| 42 | Anisotropic organization of circumferential actomyosin characterizes hematopoietic stem cells emergence in the zebrafish. ELife, 2018, 7, . | 2.8 | 25 |
| 43 | Amotl1 mediates sequestration of the Hippo effector Yap1 downstream of Fat4 to restrict heart growth. Nature Communications, 2017, 8, 14582. | 5.8 | 75 |
| 44 | Quad-edge active contours for biomedical image segmentation. , 2017, , . | | 0 |
| 45 | Unbiased analysis of mouse social behaviour using unsupervised machine learning. , 2017, , . | | 2 |
| 46 | Deciphering tissue morphodynamics using bioimage informatics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20150512. | 1.8 | 13 |
| 47 | Imaging tissue-mimic with light sheet microscopy: A comparative guideline. Scientific Reports, 2017, 7, 44939. | 1.6 | 39 |
| 48 | An objective comparison of cell-tracking algorithms. Nature Methods, 2017, 14, 1141-1152. | 9.0 | 399 |
| 49 | Legionella pneumophila Modulates Mitochondrial Dynamics to Trigger Metabolic Repurposing of Infected Macrophages. Cell Host and Microbe, 2017, 22, 302-316.e7. | 5.1 | 187 |
| 50 | BioFlow: a non-invasive, image-based method to measure speed, pressure and forces inside living cells. Scientific Reports, 2017, 7, 9178. | 1.6 | 28 |
| 51 | Fast myopic 2D-SIM super resolution microscopy with joint modulation pattern estimation. Inverse Problems, 2017, 33, 125005. | 1.0 | 6 |
| 52 | Multi-staining registration of large histology images. , 2017, , . | | 9 |
| 53 | Combining global tracking with statistical classification to analyze endocytosis dynamics using TIRF microscopy. , 2017, , . | | 0 |
| 54 | Human Liver Infection in a Dish: Easy-To-Build 3D Liver Models for Studying Microbial Infection. PLoS ONE, 2016, 11, e0148667. | 1.1 | 15 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 55 | Mathematical Microscopy. , 2016, , . | | 0 |
| 56 | Intracellular traffic of the lysine and glutamic acid rich protein KERP1 reveals features of endomembrane organization in <i>Entamoeba histolytica</i>. Cellular Microbiology, 2016, 18, 1134-1152. | 1.1 | 23 |
| 57 | Imagining the future of bioimage analysis. Nature Biotechnology, 2016, 34, 1250-1255. | 9.4 | 162 |
| 58 | A role for septin 2 in Drp1â€‘mediated mitochondrial fission. EMBO Reports, 2016, 17, 858-873. | 2.0 | 85 |
| 59 | Tunneling nanotubes spread fibrillar Î±â€‘synuclein by intercellular trafficking of lysosomes. EMBO Journal, 2016, 35, 2120-2138. | 3.5 | 286 |
| 60 | The motility of Entamoeba histolytica: finding ways to understand intestinal amoebiasis. Current Opinion in Microbiology, 2016, 34, 24-30. | 2.3 | 29 |
| 61 | Recording Mouse Ultrasonic Vocalizations to Evaluate Social Communication. Journal of Visualized Experiments, 2016, , . | 0.2 | 47 |
| 62 | Anxiety- and Depression-Like States Lead to Pronounced Olfactory Deficits and Impaired Adult Neurogenesis in Mice. Journal of Neuroscience, 2016, 36, 518-531. | 1.7 | 94 |
| 63 | A Guided Tour of Selected Image Processing and Analysis Methods for Fluorescence and Electron Microscopy. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 6-30. | 7.3 | 52 |
| 64 | Introduction to the Issue on Advanced Signal Processing in Microscopy and Cell Imaging. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 3-5. | 7.3 | 3 |
| 65 | Membrane protrusion powers clathrinâ€‘independent endocytosis of interleukinâ€‘2 receptor. EMBO Journal, 2015, 34, 2147-2161. | 3.5 | 39 |
| 66 | Social Communication in Mice â€" Are There Optimal Cage Conditions?. PLoS ONE, 2015, 10, e0121802. | 1.1 | 15 |
| 67 | Amoeboid movement in protozoan pathogens. Seminars in Cell and Developmental Biology, 2015, 46, 128-134. | 2.3 | 28 |
| 68 | Using steerable wavelets and minimal paths to reconstruct automatically filaments in fluorescence imaging. , 2015, , . | | 1 |
| 69 | Signal Processing Challenges in Quantitative 3-D Cell Morphology: More than meets the eye. IEEE Signal Processing Magazine, 2015, 32, 30-40. | 4.6 | 32 |
| 70 | Statistical analysis of molecule colocalization in bioimaging. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 568-579. | 1.1 | 112 |
| 71 | KDEL Receptors Assist Dengue Virus Exit from the Endoplasmic Reticulum. Cell Reports, 2015, 10, 1496-1507. | 2.9 | 34 |
| 72 | Imaging intraflagellar transport in trypanosomes. Methods in Cell Biology, 2015, 127, 487-508. | 0.5 | 5 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 73 | Absence of Fungal Spore Internalization by Bronchial Epithelium in Mouse Models Evidenced by a New Bioimaging Approach and Transmission Electronic Microscopy. American Journal of Pathology, 2015, 185, 2421-2430. | 1.9 | 20 |
| 74 | Image denoising by multiple compressed sensing reconstructions. , 2015, , . | | 6 |
| 75 | Image denoising by adaptive Compressed Sensing reconstructions and fusions. Proceedings of SPIE, 2015, , . | 0.8 | 2 |
| 76 | A statistical analysis of spatial clustering along cell filaments using Ripley's K function. , 2014, , . | | 6 |
| 77 | Adult Neurogenesis Restores Dopaminergic Neuronal Loss in the Olfactory Bulb. Journal of Neuroscience, 2014, 34, 14430-14442. | 1.7 | 74 |
| 78 | An Unbiased Risk Estimator for Image Denoising in the Presence of Mixed Poisson–Gaussian Noise. IEEE Transactions on Image Processing, 2014, 23, 1255-1268. | 6.0 | 70 |
| 79 | 3D shape analysis using overcomplete spherical wavelets: Application to BLEB detection in cell biology. , 2014, , . | | 6 |
| 80 | Objective comparison of particle tracking methods. Nature Methods, 2014, 11, 281-289. | 9.0 | 805 |
| 81 | Early sequence of events triggered by the interaction of *N*eisseria meningitidis with endothelial cells. Cellular Microbiology, 2014, 16, 878-895. | 1.1 | 24 |
| 82 | Acute stress in adulthood impoverishes social choices and triggers aggressiveness in preclinical models. Frontiers in Behavioral Neuroscience, 2014, 8, 447. | 1.0 | 20 |
| 83 | Urinary Retinol Binding Protein Is a Marker of the Extent of Interstitial Kidney Fibrosis. PLoS ONE, 2014, 9, e84708. | 1.1 | 32 |
| 84 | Intraflagellar transport proteins cycle between the flagellum and its base. Journal of Cell Science, 2013, 126, 327-338. | 1.2 | 109 |
| 85 | αTAT1 catalyses microtubule acetylation at clathrin-coated pits. Nature, 2013, 502, 567-570. | 13.7 | 95 |
| 86 | Multiple Hypothesis Tracking for Cluttered Biological Image Sequences. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2736-3750. | 9.7 | 191 |
| 87 | Biological video reconstruction using linear or non-linear Fourier measurements. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 88 | Extracting 3D cell parameters from dense tissue environments: application to the development of the mouse heart. Bioinformatics, 2013, 29, 772-779. | 1.8 | 23 |
| 89 | ActA Promotes Listeria monocytogenes Aggregation, Intestinal Colonization and Carriage. PLoS Pathogens, 2013, 9, e1003131. | 2.1 | 133 |
| 90 | Quantitative analysis of polarity in 3D reveals local cell coordination in the embryonic mouse heart. Development (Cambridge), 2013, 140, 395-404. | 1.2 | 29 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 91 | The signalling factor PI3K is a specific regulator of the clathrin-independent dynamin-dependent endocytosis of IL-2 receptors. Journal of Cell Science, 2013, 126, 1099-1108. | 1.2 | 48 |
| 92 | Automatic detection of 3D cell protrusions using spherical wavelets. , 2013, , . | | 4 |
| 93 | Phase retrieval with sparsity priors and application to microscopy video reconstruction. , 2013, , . | | 1 |
| 94 | A statistical analysis of spatial colocalization using Ripley's K function. , 2013, , . | | 11 |
| 95 | Image-based representation and modeling of spatiotemporal cell dynamics. , 2013, , . | | 1 |
| 96 | AutomiG, a Biosensor to Detect Alterations in miRNA Biogenesis and in Small RNA Silencing Guided by Perfect Target Complementarity. PLoS ONE, 2013, 8, e74296. | 1.1 | 5 |
| 97 | Analysis of the Spatial Organization of Molecules with Robust Statistics. PLoS ONE, 2013, 8, e80914. | 1.1 | 59 |
| 98 | Characterizing the 3-D field distortions in low numerical aperture fluorescence zooming microscope. Optics Express, 2012, 20, 9876. | 1.7 | 3 |
| 99 | Characterization of cell shape and deformation in 3D using Spherical Harmonics. , 2012, , . | | 30 |
| 100 | Video reconstruction using compressed sensing measurements and 3d total variation regularization for bio-imaging applications. , 2012, , . | | 15 |
| 101 | Modulation of the Mouse Prefrontal Cortex Activation by Neuronal Nicotinic Receptors during Novelty Exploration but not by Exploration of a Familiar Environment. Cerebral Cortex, 2012, 22, 1007-1015. | 1.6 | 25 |
| 102 | Shigella Effector IpaB-Induced Cholesterol Relocation Disrupts the Golgi Complex and Recycling Network to Inhibit Host Cell Secretion. Cell Host and Microbe, 2012, 12, 381-389. | 5.1 | 61 |
| 103 | Computerized video analysis of social interactions in mice. Nature Methods, 2012, 9, 410-417. | 9.0 | 184 |
| 104 | Fluid optical flow for forces and pressure field estimation in cellular biology. , 2012, , . | | 6 |
| 105 | Icy: an open bioimage informatics platform for extended reproducible research. Nature Methods, 2012, 9, 690-696. | 9.0 | 1,280 |
| 106 | Bayesian Estimation for Optimized Structured Illumination Microscopy. IEEE Transactions on Image Processing, 2012, 21, 601-614. | 6.0 | 96 |
| 107 | Comparison of reconstruction algorithms in compressed sensing applied to biological imaging. , 2011, , . | | 15 |
| 108 | ICY: A new open-source community image processing software. , 2011, , . | | 26 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 109 | Image filtering using anisotropic structure tensor for cell membrane enhancement in 3D microscopy. , 2011, , . | | 5 |
| 110 | Off-axis compressed holographic microscopy in low-light conditions. Optics Letters, 2011, 36, 79. | 1.7 | 50 |
| 111 | The Adaptor-associated Kinase 1, AAK1, Is a Positive Regulator of the Notch Pathway. Journal of Biological Chemistry, 2011, 286, 18720-18730. | 1.6 | 44 |
| 112 | New Computerized Color Image Analysis for the Quantification of Interstitial Fibrosis in Renal Transplantation. Transplantation, 2011, 92, 890-899. | 0.5 | 31 |
| 113 | Numerical evaluation of subsampling effects on image reconstruction in compressed sensing microscopy. , 2011, , . | | 1 |
| 114 | 3-D Active Meshes: Fast Discrete Deformable Models for Cell Tracking in 3-D Time-Lapse Microscopy. IEEE Transactions on Image Processing, 2011, 20, 1925-1937. | 6.0 | 135 |
| 115 | Special issue on whole slide microscopic image processing. Computerized Medical Imaging and Graphics, 2011, 35, 493-495. | 3.5 | 5 |
| 116 | Numerical evaluation of sampling bounds for near-optimal reconstruction in compressed sensing. , 2011, , . | | 5 |
| 117 | Spherical Harmonics based extraction and annotation of cell shape in 3D time-lapse microscopy sequences. , 2011, 2011, 6619-22. | | 6 |
| 118 | A fast and automated framework for extraction of nuclei from cluttered 3D images in fluorescence microscopy. , 2011, , . | | 3 |
| 119 | Wavefront sensing for aberration modeling in fluorescence macroscopy. , 2011, , . | | 1 |
| 120 | Prefrontal nicotinic receptors control novel social interaction between mice. FASEB Journal, 2011, 25, 2145-2155. | 0.2 | 93 |
| 121 | Statistical color texture descriptors for histological images analysis. , 2011, , . | | 19 |
| 122 | Pak1 Phosphorylation Enhances Cortactin-N-WASP Interaction in Clathrin-Caveolin-Independent Endocytosis. Traffic, 2010, 11, 1079-1091. | 1.3 | 62 |
| 123 | Ezrin tunes T-cell activation by controlling Dlg1 and microtubule positioning at the immunological synapse. EMBO Journal, 2010, 29, 2301-2314. | 3.5 | 111 |
| 124 | Disruption of Adult Neurogenesis in the Olfactory Bulb Affects Social Interaction but not Maternal Behavior. Frontiers in Behavioral Neuroscience, 2010, 4, 176. | 1.0 | 80 |
| 125 | Urinary Procollagen III Aminoterminal Propeptide (PIIINP). Clinical Journal of the American Society of Nephrology: CJASN, 2010, 5, 205-210. | 2.2 | 62 |
| 126 | A versatile system for the neuronal subtype specific expression of lentiviral vectors. FASEB Journal, 2010, 24, 723-730. | 0.2 | 33 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 127 | Curvelet analysis of kymograph for tracking bi-directional particles in fluorescence microscopy images. , 2010, , . | | 24 |
| 128 | Improving histology images segmentation through spatial constraints and supervision. , 2010, , . | | 2 |
| 129 | Compressed sensing applications for biological microscopy. , 2010, , . | | 3 |
| 130 | Escape of HIV-1-Infected Dendritic Cells from TRAIL-Mediated NK Cell Cytotoxicity during NK-DC Cross-Talkâ€"A Pivotal Role of HMGB1. PLoS Pathogens, 2010, 6, e1000862. | 2.1 | 60 |
| 131 | Combining Local Filtering and Multiscale Analysis for Edge, Ridge, and Curvilinear Objects Detection. IEEE Transactions on Image Processing, 2010, 19, 74-84. | 6.0 | 32 |
| 132 | Compressed sensing with off-axis frequency-shifting holography. Optics Letters, 2010, 35, 871. | 1.7 | 81 |
| 133 | Point-spread function model for fluorescence MACROscopy imaging. , 2010, , . | | 6 |
| 134 | Denoising in fluorescence microscopy using compressed sensing with multiple reconstructions and non-local merging. , 2010, 2010, 3394-7. | | 7 |
| 135 | In Vivo Colocalisation of oskar mRNA and Trans-Acting Proteins Revealed by Quantitative Imaging of the Drosophila Oocyte. PLoS ONE, 2009, 4, e6241. | 1.1 | 23 |
| 136 | Multiple hypothesis tracking in cluttered condition. , 2009, , . | | 11 |
| 137 | Multiple hypothesis tracking in microscopy images. , 2009, , . | | 33 |
| 138 | Particle tracking in fluorescent microscopy images improved by morphological source separation. , 2009, , . | | 2 |
| 139 | Compressed sensing in biological microscopy. , 2009, , . | | 9 |
| 140 | A Dual Role for Actin and Microtubule Cytoskeleton in the Transport of Golgi Units from the Nurse Cells to the Oocyte Across Ring Canals. Molecular Biology of the Cell, 2009, 20, 556-568. | 0.9 | 29 |
| 141 | WAFL, a new protein involved in regulation of early endocytic transport at the intersection of actin and microtubule dynamics. Experimental Cell Research, 2009, 315, 1040-1052. | 1.2 | 32 |
| 142 | Prions hijack tunnelling nanotubes for intercellular spread. Nature Cell Biology, 2009, 11, 328-336. | 4.6 | 539 |
| 143 | Tracking algorithms chase down pathogens. Biotechnology Journal, 2009, 4, 838-845. | 1.8 | 26 |
| 144 | Blind deconvolution for thin-layered confocal imaging. Applied Optics, 2009, 48, 4437. | 2.1 | 32 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 145 | Bioimaging: A new frontier area for signal processing research. , 2009, , . | | 0 |
| 146 | Cellular and Behavioral Effects of Cranial Irradiation of the Subventricular Zone in Adult Mice. PLoS ONE, 2009, 4, e7017. | 1.1 | 163 |
| 147 | AUTOMATED QUANTIFICATION OF CELLULAR PROCESSES WITH APPLICATIONS TO HIGH-CONTENT SCREENING. , 2009, , 537-556. | | 1 |
| 148 | High-resolution statistical mapping reveals gene territories in live yeast. Nature Methods, 2008, 5, 1031-1037. | 9.0 | 173 |
| 149 | Fast and automatic reconstruction of structured illumination microscopy images with multiscale products. , 2008, , . | | 0 |
| 150 | Blind deconvolution for diffraction-limited fluorescence microscopy. , 2008, , . | | 10 |
| 151 | Tracking live cells in 4D microscopy: From active surfaces to active meshes. , 2008, , . | | 2 |
| 152 | Morphological source separation for particle tracking in complex biological environments. , 2008, , . | | 2 |
| 153 | Improving single particle localization with an empirically calibrated Gaussian kernel. , 2008, , . | | 4 |
| 154 | Learning and Survival of Newly Generated Neurons: When Time Matters. Journal of Neuroscience, 2008, 28, 11511-11516. | 1.7 | 146 |
| 155 | Feature-aided particle tracking. , 2008, , . | | 10 |
| 156 | Detection of full length microtubules in live microscopy images. , 2008, , . | | 2 |
| 157 | Detection of linear structures in biological images. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , . | 0.0 | 3 |
| 158 | Feature-Adapted Fast Slant Stack. , 2007, , . | | 2 |
| 159 | Detection of Curvilinear Objects in Noisy Image using Feature-Adapted Beamlet Transform. , 2007, , . | | 5 |
| 160 | Detection of curvilinear objects in biological noisy image using feature-adapted fast slant stack. Proceedings of SPIE, 2007, , . | 0.8 | 4 |
| 161 | Quantification of Interstitial Fibrosis by Image Analysis on Routine Renal Biopsy in Patients Receiving Cyclosporine. Transplantation, 2007, 84, 1595-1601. | 0.5 | 44 |
| 162 | Gaussian approximations of fluorescence microscope point-spread function models. Applied Optics, 2007, 46, 1819. | 2.1 | 397 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 163 | Parametric Blind Deconvolution for Confocal Laser Scanning Microscopy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6532-5. | 0.5 | 11 |
| 164 | Multiple particle tracking in 3-D+t microscopy: method and application to the tracking of endocytosed quantum dots. IEEE Transactions on Image Processing, 2006, 15, 1062-1070. | 6.0 | 164 |
| 165 | A study of Gaussian approximations of fluorescence microscopy PSF models. , 2006, 6090, 104. | | 8 |
| 166 | Quantitative four-dimensional tracking of cytoplasmic and nuclear HIV-1 complexes. Nature Methods, 2006, 3, 817-824. | 9.0 | 271 |
| 167 | SAGA interacting factors confine sub-diffusion of transcribed genes to the nuclear envelope. Nature, 2006, 441, 770-773. | 13.7 | 421 |
| 168 | Richardson–Lucy algorithm with total variation regularization for 3D confocal microscope deconvolution. Microscopy Research and Technique, 2006, 69, 260-266. | 1.2 | 387 |
| 169 | MOVIE CRUNCHING IN BIOLOGICAL DYNAMIC IMAGING. , 2006, , . | | 0 |
| 170 | Cerebral microcirculation shear stress levels determine Neisseria meningitidis attachment sites along the blood–brain barrier. Journal of Experimental Medicine, 2006, 203, 1939-1950. | 4.2 | 165 |
| 171 | Telomere tethering at the nuclear periphery is essential for efficient DNA double strand break repair in subtelomeric region. Journal of Cell Biology, 2006, 172, 189-199. | 2.3 | 201 |
| 172 | Correction: Telomere tethering at the nuclear periphery is essential for efficient DNA double strand break repair in subtelomeric region. Journal of Cell Biology, 2006, 172, 951-951. | 2.3 | 0 |
| 173 | Human Tumor Necrosis Factor is a Chemoattractant for the Parasite Entamoeba histolytica. Infection and Immunity, 2006, 74, 1407-1411. | 1.0 | 47 |
| 174 | Biophysical Active Contours for Cell Tracking I: Tension and Bending. , 2006, , . | | 6 |
| 175 | Olfactory Discrimination Learning Increases the Survival of Adult-Born Neurons in the Olfactory Bulb. Journal of Neuroscience, 2006, 26, 10508-10513. | 1.7 | 234 |
| 176 | Cerebral microcirculation shear stress levels determine Neisseria meningitidis attachment sites along the blood–brain barrier. Journal of Cell Biology, 2006, 174, i7-i7. | 2.3 | 0 |
| 177 | Segmenting and tracking fluorescent cells in dynamic 3-D microscopy with coupled active surfaces. IEEE Transactions on Image Processing, 2005, 14, 1396-1410. | 6.0 | 284 |
| 178 | Neonatal and Adult Neurogenesis Provide Two Distinct Populations of Newborn Neurons to the Mouse Olfactory Bulb. Journal of Neuroscience, 2005, 25, 6816-6825. | 1.7 | 178 |
| 179 | Human MxA protein participates to the interferon-related inhibition of hepatitis B virus replication in female transgenic mice. Journal of Hepatology, 2005, 43, 965-972. | 1.8 | 29 |
| 180 | A Quantitative Criterion to Evaluate Color Segmentations Application to Cytological Images. Lecture Notes in Computer Science, 2005, , 227-234. | 1.0 | 3 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 181 | Cortactin and Crk cooperate to trigger actin polymerization during Shigella invasion of epithelial cells. Journal of Cell Biology, 2004, 166, 225-235. | 2.3 | 86 |
| 182 | Imaging movement of malaria parasites during transmission by Anopheles mosquitoes. Cellular Microbiology, 2004, 6, 687-694. | 1.1 | 171 |
| 183 | Myosin II and the Gal-GalNAc lectin play a crucial role in tissue invasion by Entamoeba histolytica. Cellular Microbiology, 2004, 7, 19-27. | 1.1 | 68 |
| 184 | Anti-Inflammatory Role for Intracellular Dimeric Immunoglobulin A by Neutralization of Lipopolysaccharide in Epithelial Cells. Immunity, 2003, 18, 739-749. | 6.6 | 148 |
| 185 | EhPAK, a member of the p21-activated kinase family, is involved in the control ofEntamoeba histolyticamigration and phagocytosis. Journal of Cell Science, 2003, 116, 61-71. | 1.2 | 66 |
| 186 | The Metabotropic Glutamate Receptor mGluR5 Is Endocytosed by a Clathrin-independent Pathway. Journal of Biological Chemistry, 2003, 278, 12222-12230. | 1.6 | 87 |
| 187 | Biological cell tracking with implicit active contours: preventing object fusions. , 2003, , . | | 0 |
| 188 | Tracking fluroescent spots in biological video microscopy. , 2003, 4964, 98. | | 8 |
| 189 | Segmentation and tracking of migrating cells in videomicroscopy with parametric active contours: a tool for cell-based drug testing. IEEE Transactions on Medical Imaging, 2002, 21, 1212-1221. | 5.4 | 247 |
| 190 | Membrane-cytoskeleton interactions during the formation of the immunological synapse and subsequent T-cell activation. Immunological Reviews, 2002, 189, 123-135. | 2.8 | 39 |
| 191 | Extraction of spots in biological images using multiscale products. Pattern Recognition, 2002, 35, 1989-1996. | 5.1 | 458 |
| 192 | Nuclear architecture and spatial positioning help establish transcriptional states of telomeres in yeast. Nature Cell Biology, 2002, 4, 214-221. | 4.6 | 253 |
| 193 | A central role for Plasmodiumfalciparum subtelomeric regions in spatial positioning and telomere length regulation. EMBO Journal, 2002, 21, 815-824. | 3.5 | 115 |
| 194 | <title>Active contours applied to the shape and motion analysis of amoeba</title>. , 2001, , . | | 5 |
| 195 | Dual function of rhoD in vesicular movement and cell motility. European Journal of Cell Biology, 2001, 80, 391-398. | 1.6 | 31 |
| 196 | Nuclear pore complexes in the organization of silent telomeric chromatin. Nature, 2000, 403, 108-112. | 13.7 | 293 |
| 197 | <title>Analysis of moving biological objects in video microscopy sequences</title>. , 1999, , . | | 7 |
| 198 | <title>Automatic detection of particles in immunolabelled images by wavelet-based selective reconstruction</title>. , 1995, , . | | 0 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 199 | <title>Automatic registration of images by a wavelet-based multiresolution approach</title>. , 1995, , . | | 9 |
| 200 | <title>Nanometer-size metal particle analysis in microscopic biological images</title>. , 1992, 1657, 558. | | 2 |
| 201 | DypFISH: Dynamic Patterned FISH to Interrogate RNA and Protein Spatial and Temporal Subcellular Distribution. SSRN Electronic Journal, 0, , . | 0.4 | 0 |