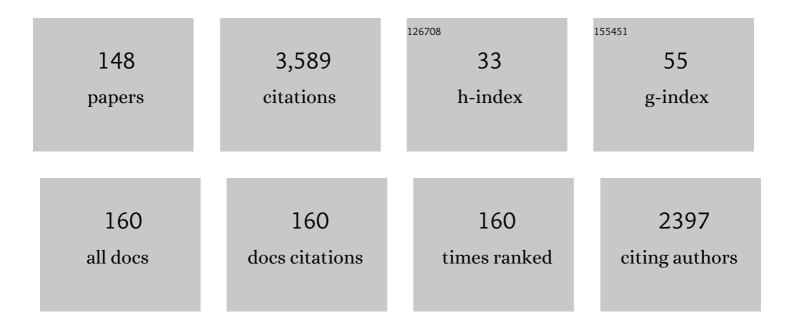
Xavier Intes

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In vivocontinuous-wave optical breast imaging enhanced with Indocyanine Green. Medical Physics, 2003, 30, 1039-1047.	1.6	230
2	The integration of 3-D cell printing and mesoscopic fluorescence molecular tomography of vascular constructs within thick hydrogel scaffolds. Biomaterials, 2012, 33, 5325-5332.	5.7	147
3	Compressive hyperspectral time-resolved wide-field fluorescence lifetime imaging. Nature Photonics, 2017, 11, 411-414.	15.6	111
4	Projection access order in algebraic reconstruction technique for diffuse optical tomography. Physics in Medicine and Biology, 2002, 47, N1-N10.	1.6	106
5	Adaptive wide-field optical tomography. Journal of Biomedical Optics, 2013, 18, 1.	1.4	106
6	Full-field time-resolved fluorescence tomography of small animals. Optics Letters, 2010, 35, 3189.	1.7	102
7	Laser-based 3D bioprinting for spatial and size control of tumor spheroids and embryoid bodies. Acta Biomaterialia, 2019, 95, 357-370.	4.1	102
8	Fast fit-free analysis of fluorescence lifetime imaging via deep learning. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24019-24030.	3.3	100
9	Diffuse optical tomography with physiological and spatiala prioriconstraints. Physics in Medicine and Biology, 2004, 49, N155-N163.	1.6	99
10	Real-time diffuse optical tomography based on structured illumination. Journal of Biomedical Optics, 2010, 15, 016006.	1.4	93
11	Non-Invasive In Vivo Imaging of Near Infrared-labeled Transferrin in Breast Cancer Cells and Tumors Using Fluorescence Lifetime FRET. PLoS ONE, 2013, 8, e80269.	1.1	93
12	Monte Carlo based method for fluorescence tomographic imaging with lifetime multiplexing using time gates. Biomedical Optics Express, 2011, 2, 871.	1.5	92
13	Comparison of Monte Carlo methods for fluorescence molecular tomography-computational efficiency. Medical Physics, 2011, 38, 5788-5798.	1.6	90
14	Development of an optical imaging platform for functional imaging of small animals using wide-field excitation. Biomedical Optics Express, 2010, 1, 143.	1.5	86
15	L_p regularization for early gate fluorescence molecular tomography. Optics Letters, 2014, 39, 4156.	1.7	78
16	Quantitative tomographic imaging of intermolecular FRET in small animals. Biomedical Optics Express, 2012, 3, 3161.	1.5	76
17	Time-resolved diffuse optical tomography with patterned-light illumination and detection. Optics Letters, 2010, 35, 2121.	1.7	72
18	Review of structured light in diffuse optical imaging. Journal of Biomedical Optics, 2018, 24, 1.	1.4	72

#	Article	IF	CITATIONS
19	Net-FLICS: fast quantitative wide-field fluorescence lifetime imaging with compressed sensing – a deep learning approach. Light: Science and Applications, 2019, 8, 26.	7.7	64
20	Hyperspectral time-resolved wide-field fluorescence molecular tomography based on structured light and single-pixel detection. Optics Letters, 2015, 40, 431.	1.7	63
21	Time-gated perturbation Monte Carlo†for whole body functional imaging†ïn small animals. Optics Express, 2009, 17, 19566.	1.7	62
22	Noninvasive, low-noise, fast imaging of blood volume and deoxygenation changes in muscles using light-emitting diode continuous-wave imager. Review of Scientific Instruments, 2002, 73, 3065-3074.	0.6	60
23	Mesh-based Monte Carlo method in time-domain widefield fluorescence molecular tomography. Journal of Biomedical Optics, 2012, 17, 1.	1.4	60
24	High-resolution tomographic analysis of in vitro 3D glioblastoma tumor model under long-term drug treatment. Science Advances, 2020, 6, eaay7513.	4.7	60
25	Assessing bimanual motor skills with optical neuroimaging. Science Advances, 2018, 4, eaat3807.	4.7	59
26	FLIM-FRET for Cancer Applications. Current Molecular Imaging, 2015, 3, 144-161.	0.7	57
27	Generalized mesh-based Monte Carlo for wide-field illumination and detection via mesh retessellation. Biomedical Optics Express, 2016, 7, 171.	1.5	53
28	Mesoscopic fluorescence molecular tomography of reporter genes in bioprinted thick tissue. Journal of Biomedical Optics, 2013, 18, 100501.	1.4	52
29	Direct approach to compute Jacobians for diffuse optical tomography using perturbation Monte Carlo-based photon "replay― Biomedical Optics Express, 2018, 9, 4588.	1.5	52
30	Mesoscopic Fluorescence Tomography of a Photosensitizer (HPPH) 3D Biodistribution in Skin Cancer. Academic Radiology, 2014, 21, 271-280.	1.3	42
31	Mesoscopic Fluorescence Molecular Tomography for Evaluating Engineered Tissues. Annals of Biomedical Engineering, 2016, 44, 667-679.	1.3	42
32	Spatial light modulator based active wide-field illumination for ex vivo and in vivo quantitative NIR FRET imaging. Biomedical Optics Express, 2014, 5, 944.	1.5	38
33	Contrast-enhanced near-infrared (NIR) optical imaging for subsurface cancer detection. Journal of Porphyrins and Phthalocyanines, 2004, 08, 1106-1117.	0.4	37
34	Quantitative imaging of receptor-ligand engagement in intact live animals. Journal of Controlled Release, 2018, 286, 451-459.	4.8	36
35	Real-time, wide-field and high-quality single snapshot imaging of optical properties with profile correction using deep learning. Biomedical Optics Express, 2020, 11, 5701.	1.5	34
36	Deep Learning in Biomedical Optics. Lasers in Surgery and Medicine, 2021, 53, 748-775.	1.1	32

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37	High-Resolution Mesoscopic Fluorescence Molecular Tomography Based on Compressive Sensing. IEEE Transactions on Biomedical Engineering, 2015, 62, 248-255.	2.5	31
38	In vitro and in vivo phasor analysis of stoichiometry and pharmacokinetics using shortâ€lifetime nearâ€infrared dyes and timeâ€gated imaging. Journal of Biophotonics, 2019, 12, e201800185.	1.1	31
39	Multi-frequency diffuse optical tomography. Journal of Modern Optics, 2005, 52, 2139-2159.	0.6	30
40	Active wide-field illumination for high-throughput fluorescence lifetime imaging. Optics Letters, 2013, 38, 3976.	1.7	30
41	Luminescence lifetime imaging of three-dimensional biological objects. Journal of Cell Science, 2021, 134, 1-17.	1.2	30
42	Near-infrared phase cancellation instrument for fast and accurate localization of fluorescent heterogeneity. Review of Scientific Instruments, 2003, 74, 3466-3473.	0.6	27
43	Wide-field fluorescence molecular tomography with compressive sensing based preconditioning. Biomedical Optics Express, 2015, 6, 4887.	1.5	26
44	Assessing patterns for compressive fluorescence lifetime imaging. Optics Letters, 2018, 43, 4370.	1.7	26
45	UNMIX-ME: spectral and lifetime fluorescence unmixing via deep learning. Biomedical Optics Express, 2020, 11, 3857.	1.5	26
46	Recent Advances in Optical Mammography. Current Medical Imaging, 2012, 8, 244-259.	0.4	25
47	High compression deep learning based single-pixel hyperspectral macroscopic fluorescence lifetime imaging in vivo. Biomedical Optics Express, 2020, 11, 5401.	1.5	23
48	Reduced temporal sampling effect on accuracy of time-domain fluorescence lifetime Förster resonance energy transfer. Journal of Biomedical Optics, 2014, 19, 086023.	1.4	20
49	Deep neural networks for the assessment of surgical skills: A systematic review. Journal of Defense Modeling and Simulation, 2022, 19, 159-171.	1.2	19
50	A machine learning approach to predict surgical learning curves. Surgery, 2020, 167, 321-327.	1.0	18
51	Multiplexed non-invasive tumor imaging of glucose metabolism and receptor-ligand engagement using dark quencher FRET acceptor. Theranostics, 2020, 10, 10309-10325.	4.6	18
52	Non-Destructive Tumor Aggregate Morphology and Viability Quantification at Cellular Resolution, During Development and in Response to Drug. Acta Biomaterialia, 2020, 117, 322-334.	4.1	17
53	Functional Brain Imaging Reliably Predicts Bimanual Motor Skill Performance in a Standardized Surgical Task. IEEE Transactions on Biomedical Engineering, 2021, 68, 2058-2066.	2.5	17
54	Macroscopic fluorescence lifetime topography enhanced via spatial frequency domain imaging. Optics Letters, 2020, 45, 4232.	1.7	17

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55	<i>Ex Vivo</i> Fluorescence Molecular Tomography of the Spine. International Journal of Biomedical Imaging, 2012, 2012, 1-11.	3.0	16
56	Comparison of illumination geometry for lifetimeâ€based measurements in wholeâ€body preclinical imaging. Journal of Biophotonics, 2018, 11, e201800037.	1.1	16
57	Quantification of Trastuzumab–HER2 Engagement In Vitro and In Vivo. Molecules, 2020, 25, 5976.	1.7	16
58	Optical tomographic imaging for breast cancer detection. Journal of Biomedical Optics, 2017, 22, 1.	1.4	16
59	Deep learning in macroscopic diffuse optical imaging. Journal of Biomedical Optics, 2022, 27, .	1.4	16
60	Assessment of Gate Width Size on Lifetime-Based Förster Resonance Energy Transfer Parameter Estimation. Photonics, 2015, 2, 1027-1042.	0.9	15
61	Radiative transfer equation modeling by streamline diffusion modified continuous Galerkin method. Journal of Biomedical Optics, 2016, 21, 036003.	1.4	15
62	Improving mesoscopic fluorescence molecular tomography via preconditioning and regularization. Biomedical Optics Express, 2018, 9, 2765.	1.5	15
63	Objective assessment of surgical skill transfer using non-invasive brain imaging. Surgical Endoscopy and Other Interventional Techniques, 2019, 33, 2485-2494.	1.3	15
64	Decreasing the Surgical Errors by Neurostimulation of Primary Motor Cortex and the Associated Brain Activation via Neuroimaging. Frontiers in Neuroscience, 2021, 15, 651192.	1.4	15
65	Hyperspectral wide-field time domain single-pixel diffuse optical tomography platform. Biomedical Optics Express, 2018, 9, 6258.	1.5	15
66	In vitro and in vivo NIR fluorescence lifetime imaging with a time-gated SPAD camera. Optica, 2022, 9, 532.	4.8	15
67	3D Bioprinting and 3D Imaging for Stem Cell Engineering. Pancreatic Islet Biology, 2015, , 33-66.	0.1	14
68	The Effects of Transcranial Electrical Stimulation on Human Motor Functions: A Comprehensive Review of Functional Neuroimaging Studies. Frontiers in Neuroscience, 2020, 14, 744.	1.4	13
69	Functional brain connectivity related to surgical skill dexterity in physical and virtual simulation environments. Neurophotonics, 2021, 8, 015008.	1.7	12
70	Multimodal Biomedical Optical Imaging Review: Towards Comprehensive Investigation of Biological Tissues. Current Molecular Imaging, 2015, 3, 72-87.	0.7	12
71	Improving mesoscopic fluorescence molecular tomography through data reduction. Biomedical Optics Express, 2017, 8, 3868.	1.5	11
72	Deep learning-based motion artifact removal in functional near-infrared spectroscopy. Neurophotonics, 2022, 9, 041406.	1.7	10

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73	Monte Carlo-based data generation for efficient deep learning reconstruction of macroscopic diffuse optical tomography and topography applications. Journal of Biomedical Optics, 2022, 27, .	1.4	9
74	3D k-space reflectance fluorescence tomography via deep learning. Optics Letters, 2022, 47, 1533.	1.7	8
75	Detection limit enhancement of fluorescent heterogeneities in turbid media by dual-interfering excitation. Applied Optics, 2002, 41, 3999.	2.1	7
76	Dental Imaging Using Mesoscopic Fluorescence Molecular Tomography: An ex Vivo Feasibility Study. Photonics, 2014, 1, 488-502.	0.9	7
77	Accelerating vasculature imaging in tumor using mesoscopic fluorescence molecular tomography via a hybrid reconstruction strategy. Biochemical and Biophysical Research Communications, 2021, 562, 29-35.	1.0	7
78	System configuration optimization for mesoscopic fluorescence molecular tomography. Biomedical Optics Express, 2019, 10, 5660.	1.5	7
79	Accelerating Monte Carlo modeling of structured-light-based diffuse optical imaging via "photon sharing― Optics Letters, 2020, 45, 2842.	1.7	7
80	Macroscopic Fluorescence Lifetime Imaging for Monitoring of Drug–Target Engagement. Methods in Molecular Biology, 2022, 2394, 837-856.	0.4	7
81	Mesh Optimization for Monte Carlo-Based Optical Tomography. Photonics, 2015, 2, 375-391.	0.9	6
82	Fluorescence lifetime FRET imaging of receptor-ligand complexes in tumor cells in vitro and in vivo. Proceedings of SPIE, 2017, , .	0.8	5
83	AlliGator: A Phasor Computational Platform for Fast in vivo Lifetime Analysis. , 2017, 2017, .		5
84	Neuroimaging guided tES to facilitate complex laparoscopic surgical tasks – insights from functional near-infrared spectroscopy. , 2021, 2021, 7437-7440.		5
85	Dental optical tomography with upconversion nanoparticles—a feasibility study. Journal of Biomedical Optics, 2017, 22, 066001.	1.4	4
86	Deep compressive macroscopic fluorescence lifetime imaging. , 2018, , .		4
87	A Rapid Approach to Build Jacobians for Optical Tomography via Monte Carlo Method and Photon "Replay― , 2017, , .		4
88	Radiative transfer with delta-Eddington-type phase functions. Applied Mathematics and Computation, 2017, 300, 70-78.	1.4	3
89	Temporal Data Set Reduction Based on D-Optimality for Quantitative FLIM-FRET Imaging. PLoS ONE, 2015, 10, e0144421.	1.1	3
90	Dental imaging using laminar optical tomography and micro CT. Proceedings of SPIE, 2014, , .	0.8	2

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91	Interhemispheric Functional Connectivity in the Primary Motor Cortex Distinguishes Between Training on a Physical and a Virtual Surgical Simulator. Lecture Notes in Computer Science, 2021, , 636-644.	1.0	2
92	Monitoring receptor heterodimerization along intracellular trafficking pathways using anti-HER2 therapeutic antibodies. , 2021, , .		2
93	High Resolution Fluorescence Laminar Optical Tomography Based on lp-Norm Regularization. , 2014, , .		2
94	A deep learning approach to remove motion artifacts in fNIRS data analysis. , 2020, , .		2
95	Brain network effects related to physical and virtual surgical training revealed by Granger causality. , 2021, 2021, 1014-1017.		2
96	Efference information flow during skill acquisition mediates its interaction with medical simulation technology. , 2022, , .		2
97	Selection of Temporal Gates for Bi-Exponential Fluorescence Lifetime Imaging. , 2013, , .		1
98	Time-Resolved Multispectral Diffuse Optical Tomography System Based on Structured Illumination and Detection. , 2013, , .		1
99	Mesoscopic tomography imaging of reporter genes in thick printed tissue constructs. , 2013, , .		1
100	Comparison of NIR FRET pairs for quantitative transferrin-based assay. Proceedings of SPIE, 2014, , .	0.8	1
101	Comparison of lp-regularization-based reconstruction methods for time domain fluorescence molecular tomography on early time gates. , 2014, , .		1
102	Assessment of gate width size on lifetime-based Förster Resonance Energy Transfer parameter estimation. , 2015, , .		1
103	Multispectral time-resolved diffuse optical tomography system for absorber mapping in turbid medium using wide-field single-pixel camera. , 2015, , .		1
104	Macroscopic fluorescence lifetime-based Förster resonance energy transfer imaging for quantitative ligand–receptor binding. , 2020, , 331-363.		1
105	Compressive hyperspectral time-resolved wide-field fluorescence lifetime imaging. , 2017, , .		1
106	Quantitative Detection of Near Infrared-labeled Transferrin using FRET Fluorescence Lifetime Wide-Field Imaging in Breast Cancer Cells In Vitro and In Vivo. , 2013, , .		1
107	Role of Tumor Heterogeneity in Imaging Breast Cancer Targeted Delivery using FLIM FRET in Vivo. , 2016, , .		1
108	Longitudinal Volumetric Assessment of Glioblastoma Brain Tumors in 3D Bio-Printed Environment by		1

Mesoscopic Fluorescence Molecular Tomography., 2016,,.

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#	Article	IF	CITATIONS
109	fNIRS as a Quantitative tool to Asses and Predict Surgical Skills. , 2019, , .		1
110	Fluorescent Lifetime Imaging improved via Deep Learning. , 2019, , .		1
111	Dynamic macroscopic in vivo FRET for the quantitative monitoring of targeted receptor engagement. , 2019, , .		1
112	Wide-field Diffuse Optical Tomography Using Deep Learning. , 2022, , .		1
113	Recovery of optical parameters in diffusive media with gated-photon counting. , 0, , .		0
114	Adaptive mesh generation for diffuse optical tomography (Invited Paper). , 2007, , .		0
115	Time gated optical imaging for functional and structural imaging. , 2010, , .		0
116	Anatomical segmentation for guided Fluorescence Molecular Tomography in small animals. , 2011, , .		0
117	Mesh-based Monte Carlo method for time-gated optical tomography. , 2011, , .		0
118	Laminar Optical Tomography Applied to Reporter Genes Imaging in Engineered Tissue Constructs. , 2013, , .		0
119	In Vivo Time-Resolved Fluorescence Imaging of a NIR FRET Probe in Live Mice. , 2013, , .		0
120	Multi-modal Imaging Cassette for Small Animal Molecular Imaging. , 2013, , .		0
121	Enhanced Dynamic Range and Accuracy of Fluorescence Lifetime Imaging by Active Illumination. , 2013, , \cdot		0
122	Design consideration for descanned laminar optical tomography with EMCCD camera. , 2014, , .		0
123	Mesh optimization for Monte Carlo based optical tomography. , 2014, , .		0
124	Compressive Sensing based Reconstruction for Early Time-gate Fluorescence Molecular Tomography. , 2014, , .		0
125	High resolution 3D image reconstruction in laminar optical tomography based on compressive sensing. , 2014, , .		0

Mesh optimization for fluorescence molecular tomography. , 2014, , .

#	Article	IF	CITATIONS
127	Structured light based hyperspectral time-resolved diffuse optical tomography system. , 2014, , .		Ο
128	Hyperstral Optical Tomography based on double light modulator configuration. , 2014, , .		0
129	SNR characterization of Mesoscopic Fluorescence Molecular Tomography with EMCCD camera. , 2015, , .		0
130	Molecular Fluorescence Tomography with Structured Light and Compressive Sensing. , 2015, , .		0
131	Biofabrication and 3D localization of multilayered cellular constructs using Laser Direct-Write and Mesoscopic Fluorescent Molecular Tomography. , 2015, , .		Ο
132	Sparse temporal sampling for fast time-domain wide-field fluorescence molecular tomography. Proceedings of SPIE, 2016, , .	0.8	0
133	Monitoring Receptor Heterodimerization along Intracellular Trafficking Pathways using Antiâ€HER2 Therapeutic Antibodies. FASEB Journal, 2021, 35, .	0.2	Ο
134	Multimodal Diffuse Optical Imaging. Biological and Medical Physics Series, 2013, , 351-374.	0.3	0
135	Wide-field Time-Resolved Molecular Optical Tomography. , 2013, , .		Ο
136	High-Throughput Quantitative Fluorescence Lifetime Imaging based on Active Wide-Field Illumination. , 2013, , .		0
137	Solution field metrics in mesh optimization for Monte Carlo based optical tomography. , 2014, , .		0
138	Photodynamic Therapy Agent Bio-distribution in 3D with Mesoscopic Fluorescence Molecular Tomography. , 2014, , .		0
139	Wide-Field Lifetime-Based FÃ ${f q}$ rster Resonance Energy Transfer in Live Animals. , 2015, , .		Ο
140	Imaging Tumor Targeted Delivery using FRET in vivo. FASEB Journal, 2015, 29, 577.1.	0.2	0
141	Enabling wide-field illumination and detection in mesh-based Monte Carlo simulations. , 2016, , .		0
142	Quantitative Deep Tissue Imaging of Target Engagement in Intact Live Animals. FASEB Journal, 2018, 32, 818.1.	0.2	0
143	Monitoring the effect of transcranial Electric current Stimulation (tES) during a bimanual motor task via functional Near-InfraRed Spectroscopy (fNIRS). , 2020, , .		0

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145	Objective Surgical Skill Differentiation for Physical and Virtual Surgical Trainers via Function Near-Infrared Spectroscopy. Studies in Health Technology and Informatics, 2016, 220, 25	onal 6-61.	0.2	0
146	System Characterization of Time-domain Mesoscopic Fluorescence Molecular Tomograph	ıy. , 2022, , .		0
147	Monte-Carlo based data generator for Deep Learning applications. , 2022, , .			0
148	Characterization of a large Gated SPAD camera for in vivo Macroscopic Fluorescence Lifet , 2022, , .	time Imaging.		0