## Sylvain Gioux

## List of Publications by Year in descending order

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159358 123241 3,955 77 30 61 citations h-index g-index papers 77 77 77 3299 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Fundamentals and developments in fluorescence-guided cancer surgery. Nature Reviews Clinical Oncology, 2022, 19, 9-22.	12.5	122
2	Simultaneous multipurpose fluorescence imaging with IRDye $\hat{A}^{@}$ 800BK during laparoscopic surgery. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 4840-4848.	1.3	6
3	Quantitative dynamic near-infrared fluorescence imaging using indocyanine green for analysis of bowel perfusion after mesenteric resection. Journal of Biomedical Optics, 2021, 26, .	1.4	3
4	Contact, high-resolution spatial diffuse reflectance imaging system for skin condition diagnosis: a first-in-human clinical trial. Journal of Biomedical Optics, 2021, 26, .	1.4	3
5	Single Snapshot Imaging of Optical Properties (SSOP) for Perfusion Assessment during Gastric Conduit Creation for Esophagectomy: An Experimental Study on Pigs. Cancers, 2021, 13, 6079.	1.7	4
6	Multimodal imaging platform for surgery: application to tissue status assessment. , 2021, , .		0
7	Noninvasive Near-Infrared Fluorescence Imaging of the Ureter During Robotic Surgery: A Demonstration in a Porcine Model. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2020, 30, 962-966.	0.5	7
8	Fluorescence-guided surgery imaging systems: basics and advanced concepts., 2020,, 141-160.		2
9	OpenSFDI: an open-source guide for constructing a spatial frequency domain imaging system. Journal of Biomedical Optics, 2020, 25, 1.	1.4	31
10	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
11	Macroscopic fluorescence lifetime topography enhanced via spatial frequency domain imaging. Optics Letters, 2020, 45, 4232.	1.7	17
12	Quantitative Wide-Field Imaging Techniques for Fluorescence Guided Neurosurgery. Frontiers in Surgery, 2019, 6, 31.	0.6	21
13	Real-time, wide-field, and quantitative oxygenation imaging using spatiotemporal modulation of light. Journal of Biomedical Optics, 2019, 24, 1.	1.4	14
14	Single snapshot of optical properties image quality improvement using anisotropic two-dimensional windows filtering. Journal of Biomedical Optics, 2019, 24, 1.	1.4	16
15	Single snapshot imaging of optical properties using a single-pixel camera: a simulation study. Journal of Biomedical Optics, 2019, 24, 1.	1.4	14
16	Spatial frequency domain imaging in 2019: principles, applications, and perspectives. Journal of Biomedical Optics, 2019, 24, 1.	1.4	81
17	Real-time optical properties and oxygenation imaging using custom parallel processing in the spatial frequency domain. Biomedical Optics Express, 2019, 10, 3916.	1.5	9
18	In vivo testing of a CMOS-based diffuse reflectance device for skin condition monitoring. , 2019, , .		0

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19	Special Section Guest Editorial: Special Section on Spatial Frequency Domain Imaging. Journal of Biomedical Optics, 2019, 24, 1.	1.4	1
20	Real-time multispectral optical imaging using GPGPU processing. , 2019, , .		0
21	Fluorescenceâ€guided surgery and intervention â€" An <scp>AAPM</scp> emerging technology blue paper. Medical Physics, 2018, 45, 2681-2688.	1.6	29
22	Quantitative real-time optical imaging of the tissue metabolic rate of oxygen consumption. Journal of Biomedical Optics, 2018, 23, 1.	1.4	36
23	Review of structured light in diffuse optical imaging. Journal of Biomedical Optics, 2018, 24, 1.	1.4	72
24	Machine learning approach for rapid and accurate estimation of optical properties using spatial frequency domain imaging. Journal of Biomedical Optics, 2018, 24, 1.	1.4	38
25	Contact, high-resolution spatial diffuse reflectance imaging system for skin condition diagnosis. Journal of Biomedical Optics, 2018, 23, 1.	1.4	5
26	qF-SSOP: real-time optical property corrected fluorescence imaging. Biomedical Optics Express, 2017, 8, 3597.	1.5	39
27	Real-time endoscopic optical properties imaging. Biomedical Optics Express, 2017, 8, 5113.	1.5	40
28	Towards real-time quantitative optical imaging for surgery. , 2017, , .		0
29	Intraoperative Hemifacial Composite Flap Perfusion Assessment Using Spatial Frequency Domain Imaging. Annals of Plastic Surgery, 2016, 76, 249-255.	0.5	12
30	Ultrafast optical property map generation using lookup tables. Journal of Biomedical Optics, 2016, 21, 110501.	1.4	41
31	Real-time simultaneous single snapshot of optical properties and blood flow using coherent spatial frequency domain imaging (cSFDI). Biomedical Optics Express, 2016, 7, 870.	1.5	27
32	Endocrine-specific NIR fluorophores for adrenal gland targeting. Chemical Communications, 2016, 52, 10305-10308.	2.2	24
33	Real-time endoscopic oxygenation imaging using single snapshot of optical properties (SSOP) imaging (Conference Presentation). , 2016, , .		1
34	Renal Clearable Organic Nanocarriers for Bioimaging and Drug Delivery. Advanced Materials, 2016, 28, 8162-8168.	11.1	122
35	Real-time, profile-corrected single snapshot imaging of optical properties. Biomedical Optics Express, 2015, 6, 4051.	1.5	56
36	Nearâ€infrared imaging for the assessment of anastomotic patency, thrombosis, and reperfusion in microsurgery: A pilot study in a porcine model. Microsurgery, 2015, 35, 309-314.	0.6	13

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37	Pancreas-Targeted NIR Fluorophores for Dual-Channel Image-Guided Abdominal Surgery. Theranostics, 2015, 5, 1-11.	4.6	38
38	Real-time imaging of tissue optical properties and surface profile using 3D-SSOP., 2015,,.		3
39	Molecular-guided surgery. Proceedings of SPIE, 2015, , .	0.8	0
40	Sentinel Lymph Node Mapping of Liver. Annals of Surgical Oncology, 2015, 22, 1147-1155.	0.7	21
41	Real-time imaging of tissue optical properties and surface profile using 3D-SSOP. , 2015, , .		O
42	Laser line illumination scheme allowing the reduction of background signal and the correction of absorption heterogeneities effects for fluorescence reflectance imaging. Journal of Biomedical Optics, 2015, 20, 106003.	1.4	4
43	Real-time quantitative fluorescence imaging using a single snapshot optical properties technique for neurosurgical guidance. Proceedings of SPIE, $2015$ , , .	0.8	0
44	Depth-enhanced fluorescence imaging using masked detection of structured illumination. Journal of Biomedical Optics, 2014, 19, 116008.	1.4	3
45	Laser line scanning for fluorescence reflectance imaging: a phantom study andin vivovalidation of the enhancement of contrast and resolution. Journal of Biomedical Optics, 2014, 19, 106003.	1.4	4
46	Near-infrared fluorescence sentinel lymph node mapping in breast cancer: a multicenter experience. Breast Cancer Research and Treatment, 2014, 143, 333-342.	1.1	150
47	Near-infrared imaging of face transplants: are both pedicles necessary?. Journal of Surgical Research, 2013, 184, 714-721.	0.8	10
48	Effective Low-dose Escalation of Indocyanine Green for Near-infrared Fluorescent Sentinel Lymph Node Mapping in Melanoma. Annals of Surgical Oncology, 2013, 20, 2357-2363.	0.7	73
49	The design and integration of a custom broadband 15x zoom lens for NIR fluorescence-guided surgery. , 2013, , .		1
50	A dual oxygenation and fluorescence imaging platform for reconstructive surgery. Proceedings of SPIE, $2013$ , , .	0.8	0
51	Single snapshot imaging of optical properties. Biomedical Optics Express, 2013, 4, 2938.	1.5	102
52	Design and characterization of an optimized simultaneous color and near-infrared fluorescence rigid endoscopic imaging system. Journal of Biomedical Optics, 2013, 18, 1.	1.4	38
53	A Novel Pilot Study Using Spatial Frequency Domain Imaging to Assess Oxygenation of Perforator Flaps During Reconstructive Breast Surgery. Annals of Plastic Surgery, 2013, 71, 308-315.	0.5	40
54	Masked detection of structured illumination (MDSI): depth sensitive fluorescence measurement. , 2013, , .		2

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55	FluoSTIC: miniaturized fluorescence image-guided surgery system. Journal of Biomedical Optics, 2012, 17, 106014.	1.4	23
56	Face transplant perfusion assessment using near-infrared fluorescence imaging. Journal of Surgical Research, 2012, 177, e83-e88.	0.8	16
57	Bone flap perfusion assessment using near-infrared fluorescence imaging. Journal of Surgical Research, 2012, 178, e43-e50.	0.8	27
58	Optimization of Coded Aperture Radioscintigraphy for Sentinel Lymph Node Mapping. Molecular Imaging and Biology, 2012, 14, 173-182.	1.3	21
59	Preclinical and clinical validation of a novel oxygenation imaging system. , 2011, , .		2
60	Toward Optimization of Imaging System and Lymphatic Tracer for Near-Infrared Fluorescent Sentinel Lymph Node Mapping in Breast Cancer. Annals of Surgical Oncology, 2011, 18, 2483-2491.	0.7	225
61	First-in-human pilot study of a spatial frequency domain oxygenation imaging system. Journal of Biomedical Optics, 2011, 16, 1.	1.4	139
62	Image-Guided Surgery Using Invisible Near-Infrared Light: Fundamentals of Clinical Translation. Molecular Imaging, 2010, 9, 7290.2010.00034.	0.7	444
63	Real-time, near-infrared, fluorescence-guided identification of the ureters using methylene blue. Surgery, 2010, 148, 78-86.	1.0	116
64	Real-time intra-operative near-infrared fluorescence identification of the extrahepatic bile ducts using clinically available contrast agents. Surgery, 2010, 148, 87-95.	1.0	109
65	Wavelength optimization for rapid chromophore mapping using spatial frequency domain imaging. Journal of Biomedical Optics, 2010, 15, 1.	1.4	94
66	The FLARE Intraoperative Near-Infrared Fluorescence Imaging System: A First-in-Human Clinical Trial in Perforator Flap Breast Reconstruction. Plastic and Reconstructive Surgery, 2010, 126, 1472-1481.	0.7	106
67	Low-frequency wide-field fluorescence lifetime imaging using a high-power near-infrared light-emitting diode light source. Journal of Biomedical Optics, 2010, 15, 026005.	1.4	21
68	Structured illumination enhances resolution and contrast in thick tissue fluorescence imaging. Journal of Biomedical Optics, 2010, 15, 1.	1.4	68
69	Image-guided surgery using invisible near-infrared light: fundamentals of clinical translation. Molecular Imaging, 2010, 9, 237-55.	0.7	237
70	High-Power, Computer-Controlled, Light-Emitting Diode–Based Light Sources for Fluorescence Imaging and Image-Guided Surgery. Molecular Imaging, 2009, 8, 7290.2009.00009.	0.7	46
71	Three-dimensional surface profile intensity correction for spatially modulated imaging. Journal of Biomedical Optics, 2009, 14, 034045.	1.4	132
72	Motion-gated acquisition for in vivo optical imaging. Journal of Biomedical Optics, 2009, 14, 1.	1.4	18

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73	The FLAREâ,,¢ Intraoperative Near-Infrared Fluorescence Imaging System: A First-in-Human Clinical Trial in Breast Cancer Sentinel Lymph Node Mapping. Annals of Surgical Oncology, 2009, 16, 2943-2952.	0.7	628
74	High-power, computer-controlled, light-emitting diode-based light sources for fluorescence imaging and image-guided surgery. Molecular Imaging, 2009, 8, 156-65.	0.7	43
75	A low-cost linear DC - 35 MHz high-power LED driver for continuous wave (CW) and fluorescence lifetime imaging (FLIM). , 2008, 6848, 684807.		6
76	A low-cost, universal, and cumulative gating circuit for small and large animal clinical imaging. Proceedings of SPIE, 2008, 6848, 6481I.	0.8	1
77	Improved optical sub-systems for intraoperative near-infrared fluorescence imaging., 2005, 6009, 39.		4