

Raphaël Turcotte

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,859
citations

377584

21
h-index

325983

40
g-index

50
all docs

50
docs citations

50
times ranked

5402
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct measurement of local oxygen concentration in the bone marrow of live animals. <i>Nature</i> , 2014, 508, 269-273.	13.7	933
2	Self-renewal of a purified <i>Tie2</i> ⁺ hematopoietic stem cell population relies on mitochondrial clearance. <i>Science</i> , 2016, 354, 1156-1160.	6.0	251
3	Arterial Extracellular Matrix: A Mechanobiological Study of the Contributions and Interactions of Elastin and Collagen. <i>Biophysical Journal</i> , 2014, 106, 2684-2692.	0.2	172
4	Live-animal imaging of native haematopoietic stem and progenitor cells. <i>Nature</i> , 2020, 578, 278-283.	13.7	171
5	Characterization of Multilayer Anti-Fog Coatings. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 750-758.	4.0	137
6	Proximity-Based Differential Single-Cell Analysis of the Niche to Identify Stem/Progenitor Cell Regulators. <i>Cell Stem Cell</i> , 2016, 19, 530-543.	5.2	136
7	Subcellular spatial resolution achieved for deep-brain imaging in vivo using a minimally invasive multimode fiber. <i>Light: Science and Applications</i> , 2018, 7, 110.	7.7	118
8	Dynamic super-resolution structured illumination imaging in the living brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9586-9591.	3.3	103
9	Adaptive optics for high-resolution imaging. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	90
10	Glycosaminoglycans contribute to extracellular matrix fiber recruitment and arterial wall mechanics. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 213-225.	1.4	78
11	Characterization of Biaxial Mechanical Behavior of Porcine Aorta under Gradual Elastin Degradation. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1528-1538.	1.3	59
12	Contribution of Collagen Fiber Undulation to Regional Biomechanical Properties Along Porcine Thoracic Aorta. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 051001.	0.6	58
13	Soluble Guanylate Cyclase β -Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. <i>PLoS ONE</i> , 2013, 8, e60156.	1.1	55
14	Vascular Smooth Muscle Sirtuin β Protects Against Aortic Dissection During Angiotensin II-Induced Hypertension. <i>Journal of the American Heart Association</i> , 2015, 4, e002384.	1.6	54
15	Tracking Single Cells in Live Animals Using a Photoconvertible Near-Infrared Cell Membrane Label. <i>PLoS ONE</i> , 2013, 8, e69257.	1.1	50
16	Adaptive optical versus spherical aberration corrections for in vivo brain imaging. <i>Biomedical Optics Express</i> , 2017, 8, 3891.	1.5	46
17	Fast widefield imaging of neuronal structure and function with optical sectioning in vivo. <i>Science Advances</i> , 2020, 6, eaaz3870.	4.7	39
18	Intravital imaging of osteocytes in mouse calvaria using third harmonic generation microscopy. <i>PLoS ONE</i> , 2017, 12, e0186846.	1.1	38

#	ARTICLE	IF	CITATIONS
19	Femtosecond laser bone ablation with a high repetition rate fiber laser source. <i>Biomedical Optics Express</i> , 2015, 6, 32.	1.5	37
20	Characterization of multiphoton microscopy in the bone marrow following intravital laser osteotomy. <i>Biomedical Optics Express</i> , 2014, 5, 3578.	1.5	33
21	Micromechanics of elastic lamellae: unravelling the role of structural inhomogeneity in multi-scale arterial mechanics. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180492.	1.5	28
22	Deconvolution for multimode fiber imaging: modeling of spatially variant PSF. <i>Biomedical Optics Express</i> , 2020, 11, 4759.	1.5	18
23	A universal framework for microscope sensorless adaptive optics: Generalized aberration representations. <i>APL Photonics</i> , 2020, 5, .	3.0	17
24	Image-guided transplantation of single cells in the bone marrow of live animals. <i>Scientific Reports</i> , 2017, 7, 3875.	1.6	15
25	Volumetric two-photon fluorescence imaging of live neurons using a multimode optical fiber. <i>Optics Letters</i> , 2020, 45, 6599.	1.7	15
26	Active compensation of extrinsic polarization errors using adaptive optics. <i>Optics Express</i> , 2019, 27, 35797.	1.7	14
27	Intravital assessment of myelin molecular order with polarimetric multiphoton microscopy. <i>Scientific Reports</i> , 2016, 6, 31685.	1.6	13
28	Molecular Order of Arterial Collagen Using Circular Polarization Second-Harmonic Generation Imaging. <i>Biophysical Journal</i> , 2016, 110, 530-533.	0.2	13
29	Optical alignment device for two-photon microscopy. <i>Biomedical Optics Express</i> , 2018, 9, 3624.	1.5	12
30	Focusing light in biological tissue through a multimode optical fiber: refractive index matching. <i>Optics Letters</i> , 2019, 44, 2386.	1.7	12
31	Defining Clonal Color in Fluorescent Multi-Clonal Tracking. <i>Scientific Reports</i> , 2016, 6, 24303.	1.6	10
32	Maintaining polarization in polarimetric multiphoton microscopy. <i>Journal of Biophotonics</i> , 2015, 8, 884-888.	1.1	8
33	Compact and contactless reflectance confocal microscope for neurosurgery. <i>Biomedical Optics Express</i> , 2020, 11, 4772.	1.5	7
34	Intravital multiphoton photoconversion with a cell membrane dye. <i>Journal of Biophotonics</i> , 2017, 10, 206-210.	1.1	4
35	Extended range and aberration-free autofocusing via remote focusing and sequence-dependent learning. <i>Optics Express</i> , 2021, 29, 36660.	1.7	4
36	Soluble Guanylate Cyclase $\alpha 1$ -Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. <i>Annals of Neurosciences</i> , 2013, 20, 65-6.	0.9	3

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37	Embigin Regulates HSPC Homing and Quiescence and Acts As a Cell Surface Marker for a Niche Factor-Enriched Subset of Osteolineage Cells. <i>Blood</i> , 2015, 126, 663-663.	0.6	2
38	Repeated imaging through a multimode optical fiber using adaptive optics. <i>Biomedical Optics Express</i> , 2022, 13, 662.	1.5	2
39	Characterization of Biaxial Mechanical Behavior of Porcine Aorta under Gradual Elastin Degradation. , 2013, 41, 1528.		1
40	Intrinsic Optical Imaging of ECM Mechanics. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2020, , 165-202.	0.7	1
41	Remote-Focussing for Volumetric Imaging in a Contactless and Label-Free Neurosurgical Microscope. , 2021, , .		1
42	Compressed imaging with focused light. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 065301.	1.0	1
43	Constitutive Modeling of Biaxial Mechanical Response of Arteries Subjected to Gradual Elastin Degradation. , 2013, , .		0
44	In Vivo Femtosecond Ablation and Imaging in Bone with a High Repetition Rate Source. , 2015, , .		0
45	Elastin in the Arterial ECM: Interactions With Collagen and the Mechanical Properties After Elastin Degradation. , 2013, , .		0
46	Sensorless shift-compensation for microscopy through a multimode optical fibre. , 2021, , .		0
47	Computational super-resolution imaging with multimode fiber using optimized illuminations. , 2022, , .		0
48	Sensorless adaptive optics for multimode optical fibre endo-microscopy. , 2021, , .		0