

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 | Repeated imaging through a multimode optical fiber using adaptive optics. Biomedical Optics Express, 2022, 13, 662. | 1.5 | 2 |
| 2 | Computational super-resolution imaging with multimode fiber using optimized illuminations. , 2022, , . | | 0 |
| 3 | Compressed imaging with focused light. Journal of Optics (United Kingdom), 2022, 24, 065301. | 1.0 | 1 |
| 4 | Adaptive optics for high-resolution imaging. Nature Reviews Methods Primers, 2021, 1, . | 11.8 | 90 |
| 5 | Extended range and aberration-free autofocusing via remote focusing and sequence-dependent learning. Optics Express, 2021, 29, 36660. | 1.7 | 4 |
| 6 | Remote-Focussing for Volumetric Imaging in a Contactless and Label-Free Neurosurgical Microscope. , 2021, , . | | 1 |
| 7 | Sensorless shift-compensation for microscopy through a multimode optical fibre. , 2021, , . | | 0 |
| 8 | Sensorless adaptive optics for multimode optical fibre endo-microscopy. , 2021, , . | | 0 |
| 9 | A universal framework for microscope sensorless adaptive optics: Generalized aberration representations. APL Photonics, 2020, 5, . | 3.0 | 17 |
| 10 | Fast widefield imaging of neuronal structure and function with optical sectioning in vivo. Science Advances, 2020, 6, eaaz3870. | 4.7 | 39 |
| 11 | Live-animal imaging of native haematopoietic stem and progenitor cells. Nature, 2020, 578, 278-283. | 13.7 | 171 |
| 12 | Compact and contactless reflectance confocal microscope for neurosurgery. Biomedical Optics Express, 2020, 11, 4772. | 1.5 | 7 |
| 13 | Deconvolution for multimode fiber imaging: modeling of spatially variant PSF. Biomedical Optics Express, 2020, 11, 4759. | 1.5 | 18 |
| 14 | Volumetric two-photon fluorescence imaging of live neurons using a multimode optical fiber. Optics Letters, 2020, 45, 6599. | 1.7 | 15 |
| 15 | Intrinsic Optical Imaging of ECM Mechanics. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2020, , 165-202. | 0.7 | 1 |
| 16 | Dynamic super-resolution structured illumination imaging in the living brain. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9586-9591. | 3.3 | 103 |
| 17 | Active compensation of extrinsic polarization errors using adaptive optics. Optics Express, 2019, 27, 35797. | 1.7 | 14 |
| 18 | Focusing light in biological tissue through a multimode optical fiber: refractive index matching. Optics Letters, 2019, 44, 2386. | 1.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Optical alignment device for two-photon microscopy. <i>Biomedical Optics Express</i> , 2018, 9, 3624. | 1.5 | 12 |
| 22 | Image-guided transplantation of single cells in the bone marrow of live animals. <i>Scientific Reports</i> , 2017, 7, 3875. | 1.6 | 15 |
| 23 | Intravital multiphoton photoconversion with a cell membrane dye. <i>Journal of Biophotonics</i> , 2017, 10, 206-210. | 1.1 | 4 |
| 24 | 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 |
| 25 | Adaptive optical versus spherical aberration corrections for in vivo brain imaging. <i>Biomedical Optics Express</i> , 2017, 8, 3891. | 1.5 | 46 |
| 26 | Intravital imaging of osteocytes in mouse calvaria using third harmonic generation microscopy. <i>PLoS ONE</i> , 2017, 12, e0186846. | 1.1 | 38 |
| 27 | Defining Clonal Color in Fluorescent Multi-Clonal Tracking. <i>Scientific Reports</i> , 2016, 6, 24303. | 1.6 | 10 |
| 28 | 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 |
| 29 | 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 |
| 30 | Intravital assessment of myelin molecular order with polarimetric multiphoton microscopy. <i>Scientific Reports</i> , 2016, 6, 31685. | 1.6 | 13 |
| 31 | Molecular Order of Arterial Collagen Using Circular Polarization Second-Harmonic Generation Imaging. <i>Biophysical Journal</i> , 2016, 110, 530-533. | 0.2 | 13 |
| 32 | Maintaining polarization in polarimetric multiphoton microscopy. <i>Journal of Biophotonics</i> , 2015, 8, 884-888. | 1.1 | 8 |
| 33 | Vascular Smooth Muscle Sirtuin ¹ Protects Against Aortic Dissection During Angiotensin II-Induced Hypertension. <i>Journal of the American Heart Association</i> , 2015, 4, e002384. | 1.6 | 54 |
| 34 | 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 |
| 35 | Femtosecond laser bone ablation with a high repetition rate fiber laser source. <i>Biomedical Optics Express</i> , 2015, 6, 32. | 1.5 | 37 |
| 36 | In Vivo Femtosecond Ablation and Imaging in Bone with a High Repetition Rate Source. , 2015, , . | | 0 |

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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 | Characterization of multiphoton microscopy in the bone marrow following intravital laser osteotomy. <i>Biomedical Optics Express</i> , 2014, 5, 3578. | 1.5 | 33 |
| 39 | Direct measurement of local oxygen concentration in the bone marrow of live animals. <i>Nature</i> , 2014, 508, 269-273. | 13.7 | 933 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Constitutive Modeling of Biaxial Mechanical Response of Arteries Subjected to Gradual Elastin Degradation. , 2013, , . | | 0 |
| 44 | Characterization of Biaxial Mechanical Behavior of Porcine Aorta under Gradual Elastin Degradation. , 2013, 41, 1528. | | 1 |
| 45 | Soluble Guanylate Cyclase $\alpha 1$ Deficient Mice: A Novel Murine Model for Primary Open Angle Glaucoma. <i>PLoS ONE</i> , 2013, 8, e60156. | 1.1 | 55 |
| 46 | Tracking Single Cells in Live Animals Using a Photoconvertible Near-Infrared Cell Membrane Label. <i>PLoS ONE</i> , 2013, 8, e69257. | 1.1 | 50 |
| 47 | Elastin in the Arterial ECM: Interactions With Collagen and the Mechanical Properties After Elastin Degradation. , 2013, , . | | 0 |
| 48 | Characterization of Multilayer Anti-Fog Coatings. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 750-758. | 4.0 | 137 |