

Filippo Pisano

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

510
citations

840728

11
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713444

21
g-index

48
all docs

48
docs citations

48
times ranked

471
citing authors

#	ARTICLE	IF	CITATIONS
1	Depth-resolved fiber photometry with a single tapered optical fiber implant. <i>Nature Methods</i> , 2019, 16, 1185-1192.	19.0	97
2	The Three-Dimensional Signal Collection Field for Fiber Photometry in Brain Tissue. <i>Frontiers in Neuroscience</i> , 2019, 13, 82.	2.8	62
3	Tailoring light delivery for optogenetics by modal demultiplexing in tapered optical fibers. <i>Scientific Reports</i> , 2018, 8, 4467.	3.3	57
4	Soft and flexible piezoelectric smart patch for vascular graft monitoring based on Aluminum Nitride thin film. <i>Scientific Reports</i> , 2019, 9, 8392.	3.3	48
5	Tapered Fibers Combined With a Multi-Electrode Array for Optogenetics in Mouse Medial Prefrontal Cortex. <i>Frontiers in Neuroscience</i> , 2018, 12, 771.	2.8	35
6	Focused ion beam nanomachining of tapered optical fibers for patterned light delivery. <i>Microelectronic Engineering</i> , 2018, 195, 41-49.	2.4	34
7	Laser micromachining of tapered optical fibers for spatially selective control of neural activity. <i>Microelectronic Engineering</i> , 2018, 192, 88-95.	2.4	20
8	Tapered fibertrodes for optoelectrical neural interfacing in small brain volumes with reduced artefacts. <i>Nature Materials</i> , 2022, 21, 826-835.	27.5	18
9	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	3.3	17
10	Sustainable, Flexible, and Biocompatible Enhanced Piezoelectric Chitosan Thin Film for Compliant Piezosensors for Human Health. <i>Advanced Electronic Materials</i> , 2023, 9, .	5.1	15
11	Comparative study of autofluorescence in flat and tapered optical fibers towards application in depth-resolved fluorescence lifetime photometry in brain tissue. <i>Biomedical Optics Express</i> , 2021, 12, 993.	2.9	13
12	High transmission from 2D periodic plasmonic finite arrays with sub-20 nm gaps realized with Ga focused ion beam milling. <i>Nanotechnology</i> , 2020, 31, 435301.	2.6	11
13	Ray tracing models for estimating light collection properties of microstructured tapered optical fibers for optical neural interfaces. <i>Optics Letters</i> , 2020, 45, 3856.	3.3	11
14	Plasmonics on a Neural Implant: Engineering Light-Matter Interactions on the Nonplanar Surface of Tapered Optical Fibers. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	9
15	An open source three-mirror laser scanning holographic two-photon lithography system. <i>PLoS ONE</i> , 2022, 17, e0265678.	2.5	9
16	Wavefront engineering for controlled structuring of far-field intensity and phase patterns from multimodal optical fibers. <i>APL Photonics</i> , 2021, 6, .	5.7	7
17	Two-photon fluorescence-assisted laser ablation of non-planar metal surfaces: fabrication of optical apertures on tapered fibers for optical neural interfaces. <i>Optics Express</i> , 2020, 28, 21368.	3.4	7
18	Large scale matching of function to the genetic identity of retinal ganglion cells. <i>Scientific Reports</i> , 2017, 7, 15395.	3.3	6

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19	Orthogonalization of far-field detection in tapered optical fibers for depth-selective fiber photometry in brain tissue. <i>APL Photonics</i> , 2022, 7, 026106.	5.7	6
20	Single-cell micro- and nano-photonic technologies. <i>Journal of Neuroscience Methods</i> , 2019, 325, 108355.	2.5	5
21	Influence of the anatomical features of different brain regions on the spatial localization of fiber photometry signals. <i>Biomedical Optics Express</i> , 2021, 12, 6081.	2.9	5
22	Label-free biomechanical nanosensor based on LSPR for biological applications. <i>Optical Materials Express</i> , 2020, 10, 1264.	3.0	4
23	Numerical Calculation of the Light Propagation in Tapered Optical Fibers for Optical Neural Interfaces. <i>Journal of Lightwave Technology</i> , 2022, 40, 196-205.	4.6	3
24	Holographic Manipulation of Nanostructured Fiber Optics Enables Spatially Resolved, Reconfigurable Optical Control of Plasmonic Local Field Enhancement and SERS. <i>Small</i> , 2022, 18, e2200975.	10.0	3
25	Tapered Optical Fibers for Optogenetics: Ray Tracing Modeling. , 2018, , .		2
26	Tapered Fibers for Optogenetics: Gaining Spatial Resolution in Deep Brain Regions by Exploiting Angle-Selective Light Injection Systems. , 2019, , .		1
27	Aluminium Nitride based bio-MEMS for vascular graft monitoring. , 2019, , .		1
28	Plasmonic Nanostructures on Curved Surfaces for Fiber-Based Sensors. , 2020, , .		1
29	Depth-Resolved Optical Monitoring of Neural Activity in Freely Moving Animals. , 2020, , .		1
30	Optical Approaches to Study Cell Invasiveness: From 2 Photon Lithography to Optogenetics. , 2018, , .		0
31	Modeling Brain Tissue Scattering for Optical Neural Interfaces. , 2019, , .		0
32	Advanced Optoelectronic Devices for Neuroscience. , 2020, , .		0
33	Tapered Optical Fibers for Fluorescence Lifetime Photometry. , 2021, , .		0
34	Tapered Fibers Technology for Multi-functional Neural Interfaces. , 2020, , .		0
35	Estimating the Spatial Behavior of Fiber Photometry Across Different Brain Regions. , 2021, , .		0
36	Optical Properties of Finite Subsets of FIB-Milled 2D Periodic Arrays of Gold Nanoplatelets with Sub-20-nm Gaps. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
37	Tapered Optical Fibers toward Depth Resolved Fluorescence Lifetime Photometry in brain tissue. , 2021, , .		0
38	Interfacing with small brain volumes with tapered fiber-based optrode. , 2021, , .		0
39	Segmented-Wave Analysis of Nano-Gratings on Curved Surfaces. , 2020, , .		0
40	Influence of brain anatomy on functional fluorescence collection from brain tissue. , 2022, , .		0
41	Plasmonic brain implants for the next generation of nano-optical neural interfaces. , 2022, , .		0