

# Rui Cao

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,267  
citations

516215

16  
h-index

552369

26  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional aspects of meningeal lymphatics in ageing and Alzheimer's disease. <i>Nature</i> , 2018, 560, 185-191.	13.7	839
2	CNS lymphatic drainage and neuroinflammation are regulated by meningeal lymphatic vasculature. <i>Nature Neuroscience</i> , 2018, 21, 1380-1391.	7.1	579
3	Functional and oxygen-metabolic photoacoustic microscopy of the awake mouse brain. <i>NeuroImage</i> , 2017, 150, 77-87.	2.1	129
4	Simultaneous photoacoustic microscopy of microvascular anatomy, oxygen saturation, and blood flow. <i>Optics Letters</i> , 2015, 40, 910.	1.7	117
5	Ultrasound-aided Multi-parametric Photoacoustic Microscopy of the Mouse Brain. <i>Scientific Reports</i> , 2016, 5, 18775.	1.6	78
6	High-speed three-dimensional photoacoustic computed tomography for preclinical research and clinical translation. <i>Nature Communications</i> , 2021, 12, 882.	5.8	77
7	Multiparametric photoacoustic microscopy of the mouse brain with 300-kHz A-line rate. <i>NeuroPhotonics</i> , 2016, 3, 045006.	1.7	52
8	Microfabricated continuous cubic phase plate induced Airy beams for optical manipulation with high power efficiency. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	50
9	All-optical photoacoustic microscopy based on plasmonic detection of broadband ultrasound. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	49
10	A novel lysosome-mitochondria signaling pathway disrupted by amyloid $\beta$ oligomers. <i>EMBO Journal</i> , 2018, 37, .	3.5	47
11	Photoacoustic microscopy reveals the hemodynamic basis of sphingosine 1-phosphate-induced neuroprotection against ischemic stroke. <i>Theranostics</i> , 2018, 8, 6111-6120.	4.6	34
12	Photoacoustic microscopy of obesity-induced cerebrovascular alterations. <i>NeuroImage</i> , 2019, 188, 369-379.	2.1	29
13	Multispectral photoacoustic microscopy based on an optical-acoustic objective. <i>Photoacoustics</i> , 2015, 3, 55-59.	4.4	26
14	Dictionary learning-based reverberation removal enables depth-resolved photoacoustic microscopy of cortical microvasculature in the mouse brain. <i>Scientific Reports</i> , 2018, 8, 985.	1.6	21
15	Wave of single-impulse-stimulated fast initial dip in single vessels of mouse brains imaged by high-speed functional photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	19
16	Self-healing optical pillar array. <i>Optics Letters</i> , 2012, 37, 3540.	1.7	17
17	Comprehensive Characterization of Cerebrovascular Dysfunction in Blast Traumatic Brain Injury Using Photoacoustic Microscopy. <i>Journal of Neurotrauma</i> , 2019, 36, 1526-1534.	1.7	16
18	Cortex-wide multiparametric photoacoustic microscopy based on real-time contour scanning. <i>NeuroPhotonics</i> , 2019, 6, 1.	1.7	16

#	ARTICLE	IF	CITATIONS
19	Longitudinal cortex-wide monitoring of cerebral hemodynamics and oxygen metabolism in awake mice using multi-parametric photoacoustic microscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 3187-3199.	2.4	14
20	In vivo imaging of hemodynamic redistribution and arteriogenesis across microvascular network. <i>Microcirculation</i> , 2020, 27, e12598.	1.0	12
21	Development of a photoacoustic microscopy technique to assess peritubular capillary function and oxygen metabolism in the mouse kidney. <i>Kidney International</i> , 2021, 100, 613-620.	2.6	11
22	Hemodynamic and oxygen-metabolic responses of the awake mouse brain to hypercapnia revealed by multi-parametric photoacoustic microscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2628-2639.	2.4	10
23	Rapid fabrication of high-resolution multi-scale microfluidic devices based on the scanning of patterned femtosecond laser. <i>Optics Letters</i> , 2020, 45, 3929.	1.7	5
24	Photoacoustic microscopy of vascular adaptation and tissue oxygen metabolism during cutaneous wound healing. <i>Biomedical Optics Express</i> , 2022, 13, 2695.	1.5	4
25	åÿ°ä°ŽâŠ̄æ€è½-âŠ̄â...%œÿçš,,â...%é•ŠâŠ̄â¿«éÿæµ«é‡; Chinese Optics Letters, 2011, 9, 031201.	1.3	3
26	High-speed Functional Photoacoustic Microscopy of the Mouse Brain. , 2016, , .		1
27	Nutrient-induced Mitochondrial Activation (NiMA): A Novel Lysosome-to-Mitochondria Signaling Pathway Disrupted by Amyloid- Oligomers. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
28	Multi-parametric Photoacoustic Microscopy of Photothrombotic Stroke in the Mouse Brain. , 2016, , .		1
29	Photoacoustic microscopy of cerebral hemodynamic and oxygen-metabolic responses to anesthetics. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
30	Photoacoustic Microscopy of Cerebral Hemodynamic and Metabolic Responses to General Anesthetics. , 2019, , 215-227.		0
31	Multi-parametric Photoacoustic Microscopy of the Awake Mouse Brain. , 2016, , .		0