

# 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	Photoacoustic microscopy of vascular adaptation and tissue oxygen metabolism during cutaneous wound healing. <i>Biomedical Optics Express</i> , 2022, 13, 2695.	1.5	4
2	High-speed three-dimensional photoacoustic computed tomography for preclinical research and clinical translation. <i>Nature Communications</i> , 2021, 12, 882.	5.8	77
3	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
4	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
5	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
6	In vivo imaging of hemodynamic redistribution and arteriogenesis across microvascular network. <i>Microcirculation</i> , 2020, 27, e12598.	1.0	12
7	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
8	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
9	Photoacoustic Microscopy of Cerebral Hemodynamic and Metabolic Responses to General Anesthetics. , 2019, , 215-227.		0
10	Photoacoustic microscopy of obesity-induced cerebrovascular alterations. <i>NeuroImage</i> , 2019, 188, 369-379.	2.1	29
11	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
12	Cortex-wide multiparametric photoacoustic microscopy based on real-time contour scanning. <i>NeuroPhotonics</i> , 2019, 6, 1.	1.7	16
13	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
14	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
15	A novel lysosome-mitochondria signaling pathway disrupted by amyloid $\beta$ <sup>2</sup> oligomers. <i>EMBO Journal</i> , 2018, 37, .	3.5	47
16	CNS lymphatic drainage and neuroinflammation are regulated by meningeal lymphatic vasculature. <i>Nature Neuroscience</i> , 2018, 21, 1380-1391.	7.1	579
17	Functional aspects of meningeal lymphatics in ageing and Alzheimer's disease. <i>Nature</i> , 2018, 560, 185-191.	13.7	839
18	Functional and oxygen-metabolic photoacoustic microscopy of the awake mouse brain. <i>NeuroImage</i> , 2017, 150, 77-87.	2.1	129

#	ARTICLE	IF	CITATIONS
19	Photoacoustic microscopy of cerebral hemodynamic and oxygen-metabolic responses to anesthetics. Proceedings of SPIE, 2017, , .	0.8	0
20	High-speed Functional Photoacoustic Microscopy of the Mouse Brain. , 2016, , .		1
21	Multiparametric photoacoustic microscopy of the mouse brain with 300-kHz A-line rate. Neurophotonics, 2016, 3, 045006.	1.7	52
22	Ultrasound-aided Multi-parametric Photoacoustic Microscopy of the Mouse Brain. Scientific Reports, 2016, 5, 18775.	1.6	78
23	Multi-parametric Photoacoustic Microscopy of the Awake Mouse Brain. , 2016, , .		0
24	Multi-parametric Photoacoustic Microscopy of Photothrombotic Stroke in the Mouse Brain. , 2016, , .		1
25	All-optical photoacoustic microscopy based on plasmonic detection of broadband ultrasound. Applied Physics Letters, 2015, 107, .	1.5	49
26	Multispectral photoacoustic microscopy based on an optical acoustic objective. Photoacoustics, 2015, 3, 55-59.	4.4	26
27	Simultaneous photoacoustic microscopy of microvascular anatomy, oxygen saturation, and blood flow. Optics Letters, 2015, 40, 910.	1.7	117
28	Self-healing optical pillar array. Optics Letters, 2012, 37, 3540.	1.7	17
29	Microfabricated continuous cubic phase plate induced Airy beams for optical manipulation with high power efficiency. Applied Physics Letters, 2011, 99, .	1.5	50
30	åÿ°ã°ŽãŠ°æ€½-ãŠ°ã...%æŸš,,ã...%é•ŠãŠ°ãž«é€Ÿæµ«é‡• Chinese Optics Letters, 2011, 9, 031201.	1.3	3
31	Nutrient-induced Mitochondrial Activation (NiMA): A Novel Lysosome-to-Mitochondria Signaling Pathway Disrupted by Amyloid- Oligomers. SSRN Electronic Journal, 0, , .	0.4	1