

Puxiang Lai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9484580/publications.pdf>

Version: 2024-02-01

88
papers

1,721
citations

257357

24
h-index

302012

39
g-index

95
all docs

95
docs citations

95
times ranked

1403
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoacoustically guided wavefront shaping for enhanced optical focusing in scattering media. <i>Nature Photonics</i> , 2015, 9, 126-132.	15.6	249
2	Optical focusing deep inside dynamic scattering media with near-infrared time-reversed ultrasonically encoded (TRUE) light. <i>Nature Communications</i> , 2015, 6, 5904.	5.8	156
3	Aggregation-Induced Absorption Enhancement for Deep Near-Infrared II Photoacoustic Imaging of Brain Gliomas In Vivo. <i>Advanced Science</i> , 2019, 6, 1801615.	5.6	79
4	Dependence of optical scattering from Intralipid in gelatin-gel based tissue-mimicking phantoms on mixing temperature and time. <i>Journal of Biomedical Optics</i> , 2014, 19, 035002.	1.4	71
5	Perspective: Wavefront shaping techniques for controlling multiple light scattering in biological tissues: Toward <i>in vivo</i> applications. <i>APL Photonics</i> , 2018, 3, .	3.0	58
6	Ultrasonically encoded wavefront shaping for focusing into random media. <i>Scientific Reports</i> , 2014, 4, 3918.	1.6	51
7	Near-Infrared Plasmon-Boosted Heat/Oxygen Enrichment for Reversing Rheumatoid Arthritis with Metal/Semiconductor Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45796-45806.	4.0	51
8	Temporal and Spatial Variability of Water Status in Plant Leaves by Terahertz Imaging. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018, 8, 520-527.	2.0	45
9	Reflection-mode time-reversed ultrasonically encoded optical focusing into turbid media. <i>Journal of Biomedical Optics</i> , 2011, 16, 080505.	1.4	39
10	Focusing light through scattering media by reinforced hybrid algorithms. <i>APL Photonics</i> , 2020, 5, .	3.0	38
11	Focused fluorescence excitation with time-reversed ultrasonically encoded light and imaging in thick scattering media. <i>Laser Physics Letters</i> , 2013, 10, 075604.	0.6	32
12	Wavefront Shaping and Its Application to Enhance Photoacoustic Imaging. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1320.	1.3	32
13	Artificial intelligence-assisted light control and computational imaging through scattering media. <i>Journal of Innovative Optical Health Sciences</i> , 2019, 12, 1930006.	0.5	32
14	Adaptive optical focusing through perturbed scattering media with a dynamic mutation algorithm. <i>Photonics Research</i> , 2021, 9, 202.	3.4	32
15	Real-Time Monitoring of High-Intensity Focused Ultrasound Lesion Formation Using Acousto-Optic Sensing. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 239-252.	0.7	30
16	Photoacoustic Imaging in Oxygen Detection. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1262.	1.3	30
17	Towards smart optical focusing: deep learning-empowered dynamic wavefront shaping through nonstationary scattering media. <i>Photonics Research</i> , 2021, 9, B262.	3.4	30
18	Single-shot linear dichroism optical-resolution photoacoustic microscopy. <i>Photoacoustics</i> , 2019, 16, 100148.	4.4	29

#	ARTICLE	IF	CITATIONS
19	Optical-resolution photoacoustic microscopy with ultrafast dual-wavelength excitation. Journal of Biophotonics, 2020, 13, e201960229.	1.1	28
20	Time-reversed ultrasonically encoded optical focusing in biological tissue. Journal of Biomedical Optics, 2012, 17, 030506.	1.4	27
21	Optimal efficiency of focusing diffused light through scattering media with iterative wavefront shaping. APL Photonics, 2022, 7, .	3.0	27
22	Ultrasound-modulated optical tomography at new depth. Journal of Biomedical Optics, 2012, 17, 066006.	1.4	26
23	Clothing spiny nanoprobes against the mononuclear phagocyte system clearance in vivo: Photoacoustic diagnosis and photothermal treatment of early stage liver cancer with erythrocyte membrane-camouflaged gold nanostars. Applied Materials Today, 2020, 18, 100484.	2.3	26
24	Time-reversed magnetically controlled perturbation (TRMCP) optical focusing inside scattering media. Scientific Reports, 2018, 8, 2927.	1.6	25
25	Quantitative characterization of turbid media using pressure contrast acousto-optic imaging. Optics Letters, 2009, 34, 2850.	1.7	23
26	Implementation of digital optical phase conjugation with embedded calibration and phase rectification. Scientific Reports, 2019, 9, 1537.	1.6	23
27	Photoacoustic imaging of synovial tissue hypoxia in experimental post-traumatic osteoarthritis. Progress in Biophysics and Molecular Biology, 2019, 148, 12-20.	1.4	22
28	Time-reversed ultrasonically encoded optical focusing into tissue-mimicking media with thickness up to 70 mean free paths. Journal of Biomedical Optics, 2011, 16, 086009.	1.4	21
29	Energy enhancement in time-reversed ultrasonically encoded optical focusing using a photorefractive polymer. Journal of Biomedical Optics, 2012, 17, 080507.	1.4	20
30	Fabrication of multifunctional polydopamine-coated gold nanobones for PA/CT imaging and enhanced synergistic chemo-photothermal therapy. Journal of Materials Science and Technology, 2021, 63, 97-105.	5.6	20
31	Dynamic mutation enhanced particle swarm optimization for optical wavefront shaping. Optics Express, 2021, 29, 18420.	1.7	19
32	High-resolution photoacoustic microscopy with deep penetration through learning. Photoacoustics, 2022, 25, 100314.	4.4	19
33	Photoacoustic imaging of microenvironmental changes in facial cupping therapy. Biomedical Optics Express, 2020, 11, 2394.	1.5	18
34	Parameter-free optimization algorithm for iterative wavefront shaping. Optics Letters, 2021, 46, 2880.	1.7	17
35	Expansion of the FOV in speckle autocorrelation imaging by spatial filtering. Optics Letters, 2019, 44, 5997.	1.7	17
36	Edge enhancement through scattering media enabled by optical wavefront shaping. Photonics Research, 2020, 8, 954.	3.4	17

#	ARTICLE	IF	CITATIONS
37	High-sensitivity ultrasound-modulated optical tomography with a photorefractive polymer. <i>Optics Letters</i> , 2013, 38, 899.	1.7	16
38	Plasmonic-doped melanin-mimic for CXCR4-targeted NIR-II photoacoustic computed tomography-guided photothermal ablation of orthotopic hepatocellular carcinoma. <i>Acta Biomaterialia</i> , 2021, 129, 245-257.	4.1	15
39	A multifunctional targeted nanoprobe with high NIR-II PAI/MRI performance for precise theranostics of orthotopic early-stage hepatocellular carcinoma. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8779-8792.	2.9	15
40	Video-Rate Dual-Modal Wide-Beam Harmonic Ultrasound and Photoacoustic Computed Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 727-736.	5.4	15
41	Ultrasound-modulated laser feedback tomography in the reflective mode. <i>Optics Letters</i> , 2019, 44, 5414.	1.7	14
42	Fluorescent Materials With Aggregation-Induced Emission Characteristics for Array-Based Sensing Assay. <i>Frontiers in Chemistry</i> , 2020, 8, 288.	1.8	13
43	Interferometry-free noncontact photoacoustic detection method based on speckle correlation change. <i>Optics Letters</i> , 2019, 44, 5481.	1.7	13
44	Light on osteoarthritic joint: from bench to bed. <i>Theranostics</i> , 2022, 12, 542-557.	4.6	13
45	Speckle-Based Optical Cryptosystem and its Application for Human Face Recognition via Deep Learning. <i>Advanced Science</i> , 2022, 9, .	5.6	13
46	Optically Selective Neuron Stimulation with a Wavefront Shaping-Empowered Multimode Fiber. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	12
47	Time-reversed ultrasonically encoded optical focusing using two ultrasonic transducers for improved ultrasonic axial resolution. <i>Journal of Biomedical Optics</i> , 2013, 18, 110502.	1.4	9
48	Active wavefront shaping for controlling and improving multimode fiber sensor. <i>Journal of Innovative Optical Health Sciences</i> , 2019, 12, .	0.5	9
49	Multifunctional layered black phosphorene-based nanoplatfor for disease diagnosis and treatment: a review. <i>Frontiers of Optoelectronics</i> , 2020, 13, 327-351.	1.9	9
50	Low-consumption photoacoustic method to measure liquid viscosity. <i>Biomedical Optics Express</i> , 2021, 12, 7139.	1.5	9
51	Alternative Interpretation of Speckle Autocorrelation Imaging Through Scattering Media. <i>Photonic Sensors</i> , 2022, 12, 1.	2.5	7
52	Measuring Tissue Properties and Monitoring Therapeutic Responses Using Acousto-Optic Imaging. <i>Annals of Biomedical Engineering</i> , 2012, 40, 474-485.	1.3	6
53	A switchable multimode microlaser based on an AIE microsphere. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11180-11188.	2.7	6
54	Single-shot ultrasound-modulated optical tomography with enhanced speckle contrast. <i>Optics Letters</i> , 2021, 46, 3095.	1.7	5

#	ARTICLE	IF	CITATIONS
55	Exploiting the potential of commercial objectives to extend the field of view of two-photon microscopy by adaptive optics. <i>Optics Letters</i> , 2022, 47, 989.	1.7	5
56	Accelerating deep learning with high energy efficiency: From microchip to physical systems. <i>Innovation(China)</i> , 2022, 3, 100252.	5.2	4
57	Enhancing spatiotemporal focusing of light deep inside scattering media with Time-Gated Reflection Matrix. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	4
58	Optical focusing in scattering media with photoacoustic wavefront shaping (PAWS). , 2014, , .		3
59	Special issue "Photoacoustic imaging: microscopy, tomography, and their recent applications in biomedicine" in visual computation for industry, biomedicine, and art. <i>Visual Computing for Industry, Biomedicine, and Art</i> , 2021, 4, 16.	2.2	3
60	Two-Dimensional Photoacoustic/Ultrasonic Endoscopic Imaging Based on a Line-Focused Transducer. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 807633.	2.0	3
61	Detection of HIFU lesions in Excised Tissue Using Acousto-Optic Imaging. , 2009, , .		2
62	Exploring ultrasound-modulated optical tomography at clinically useful depths using the photorefractive effect. , 2013, , .		2
63	High-efficiency time-reversed ultrasonically encoded optical focusing using a large-area photorefractive polymer. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
64	High-speed time-reversed ultrasonically encoded (TRUE) optical focusing inside dynamic scattering media at 793 nm. , 2014, , .		2
65	High-Speed Time-Reversed Ultrasonically Encoded (TRUE) Optical Focusing in Dynamic Scattering Media at 793 nm. , 2014, , .		2
66	Cartilage-inspired hydrogel lubrication strategy. <i>Innovation(China)</i> , 2022, 3, 100275.	5.2	2
67	Sensing the optical properties of diffusive media by acousto-optic pressure contrast imaging. , 2009, , .		1
68	Monitoring and guidance of high intensity focused ultrasound exposures in real time using acousto-optic imaging: feasibility and demonstration ex vivo. , 2010, , .		1
69	Time-reversed ultrasonically encoded (TRUE) optical focusing in reflection mode: demonstrations in tissue mimicking phantoms and ex vivo tissue. , 2012, , .		1
70	Optical Focusing in Scattering Media with Photoacoustic Wavefront Shaping (PAWS). , 2014, , .		1
71	Editorial: Introduction to the special issue on high-resolution optical focusing and imaging within or through thick scattering media. <i>Journal of Innovative Optical Health Sciences</i> , 2019, 12, 1902002.	0.5	1
72	Tunable absorption characteristics in multilayered structures with graphene for biosensing. <i>Journal of Innovative Optical Health Sciences</i> , 2020, 13, 2050017.	0.5	1

#	ARTICLE	IF	CITATIONS
73	Influence of anisotropy factor on the memory effect: A systematic study. <i>Optik</i> , 2021, 231, 166366.	1.4	1
74	Deep learning assisted optical wavefront shaping in disordered medium. , 2019, , .		1
75	Multimode Fiber Specklegram Twist Sensor. , 2017, , .		1
76	Ultrasonic encoding of diffused light: from optical imaging to light focusing in turbid media. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
77	Focusing light in scattering media by ultrasonically encoded wavefront shaping (SEWS). <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
78	Improving the axial resolution in time-reversed ultrasonically encoded (TRUE) optical focusing with dual ultrasonic waves. , 2014, , .		0
79	Localized fluorescence excitation in opaque media by time-reversed ultrasonically encoded (TRUE) optical focusing. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
80	Focusing Light Deep in Tissue with Ultrasound Guidestars. , 2015, , .		0
81	Focused and Controllable Optical Delivery in Complex Media Using Wavefront Shaping. , 2017, , .		0
82	Ultrasound-mediated high-resolution optical focusing and imaging in optically scattering media. , 2018, , .		0
83	Time-reversed ultrasonically encoded optical focusing in biological tissue. <i>Journal of Biomedical Optics</i> , 2012, 17, 036001.	1.4	0
84	Time-Reversed Ultrasonically Encoded (TRUE) Optical Focusing into Soft Biological Tissue. , 2012, , .		0
85	Focusing light into tissue. <i>SPIE Newsroom</i> , 0, , .	0.1	0
86	Focusing Light in Scattering Media by Ultrasonically-Encoded Wavefront Shaping (SEWS). , 2014, , .		0
87	Nonlinear Photoacoustic Imaging by Pump-Probe Excitation. , 2017, , .		0
88	Nonlinear photoacoustic generation by pump-probe excitation. , 2019, , .		0