

Adam K Glaser

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,424
citations

159358

30
h-index

214527

47
g-index

67
all docs

67
docs citations

67
times ranked

1727
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-sheet microscopy for slide-free non-destructive pathology of large clinical specimens. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	285
2	Multi-immersion open-top light-sheet microscope for high-throughput imaging of cleared tissues. <i>Nature Communications</i> , 2019, 10, 2781.	5.8	135
3	Optical dosimetry of radiotherapy beams using Cherenkov radiation: the relationship between light emission and dose. <i>Physics in Medicine and Biology</i> , 2014, 59, 3789-3811.	1.6	130
4	Cherenkov Video Imaging Allows for the First Visualization of Radiation Therapy in Real Time. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 615-622.	0.4	95
5	Projection imaging of photon beams by the Čerenkov effect. <i>Medical Physics</i> , 2013, 40, 012101.	1.6	90
6	Three-dimensional Čerenkov tomography of energy deposition from ionizing radiation beams. <i>Optics Letters</i> , 2013, 38, 634.	1.7	81
7	Projection imaging of photon beams using Čerenkov-excited fluorescence. <i>Physics in Medicine and Biology</i> , 2013, 58, 601-619.	1.6	79
8	Raman-Encoded Molecular Imaging with Topically Applied SERS Nanoparticles for Intraoperative Guidance of Lumpectomy. <i>Cancer Research</i> , 2017, 77, 4506-4516.	0.4	75
9	Time-gated Cherenkov emission spectroscopy from linear accelerator irradiation of tissue phantoms. <i>Optics Letters</i> , 2012, 37, 1193.	1.7	74
10	Harnessing non-destructive 3D pathology. <i>Nature Biomedical Engineering</i> , 2021, 5, 203-218.	11.6	74
11	Cherenkov radiation fluence estimates in tissue for molecular imaging and therapy applications. <i>Physics in Medicine and Biology</i> , 2015, 60, 6701-6718.	1.6	70
12	Superficial dosimetry imaging based on Čerenkov emission for external beam radiotherapy with megavoltage x-ray beam. <i>Medical Physics</i> , 2013, 40, 101914.	1.6	68
13	A GAMOS plug-in for GEANT4 based Monte Carlo simulation of radiation-induced light transport in biological media. <i>Biomedical Optics Express</i> , 2013, 4, 741.	1.5	66
14	Superficial dosimetry imaging of Čerenkov emission in electron beam radiotherapy of phantoms. <i>Physics in Medicine and Biology</i> , 2013, 58, 5477-5493.	1.6	62
15	Feature-rich covalent stains for super-resolution and cleared tissue fluorescence microscopy. <i>Science Advances</i> , 2020, 6, eaba4542.	4.7	60
16	A hybrid open-top light-sheet microscope for versatile multi-scale imaging of cleared tissues. <i>Nature Methods</i> , 2022, 19, 613-619.	9.0	54
17	Rapid pathology of lumpectomy margins with open-top light-sheet (OTLS) microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 1257.	1.5	51
18	Real-time in vivo Cherenkovoscopy imaging during external beam radiation therapy. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	1.4	47

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19	Cherenkov-excited luminescence scanned imaging. <i>Optics Letters</i> , 2015, 40, 827.	1.7	46
20	Multiplexed Optical Imaging of Tumor-Directed Nanoparticles: A Review of Imaging Systems and Approaches. <i>Nanotheranostics</i> , 2017, 1, 369-388.	2.7	46
21	Cherenkov-based patient positioning validation and movement tracking during post-lumpectomy whole breast radiation therapy. <i>Physics in Medicine and Biology</i> , 2015, 60, L1-L14.	1.6	45
22	Open-Top Light-Sheet Microscopy Image Atlas of Prostate Core Needle Biopsies. <i>Archives of Pathology and Laboratory Medicine</i> , 2019, 143, 1069-1075.	1.2	44
23	Cherenkov radiation emission and excited luminescence (CREL) sensitivity during external beam radiation therapy: Monte Carlo and tissue oxygenation phantom studies. <i>Biomedical Optics Express</i> , 2012, 3, 2381.	1.5	42
24	Cherenkov imaging method for rapid optimization of clinical treatment geometry in total skin electron beam therapy. <i>Medical Physics</i> , 2016, 43, 993-1002.	1.6	42
25	Prostate Cancer Risk Stratification via Nondestructive 3D Pathology with Deep Learning-Assisted Gland Analysis. <i>Cancer Research</i> , 2022, 82, 334-345.	0.4	42
26	Microscopy with ultraviolet surface excitation for wide-area pathology of breast surgical margins. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	40
27	Video-rate optical dosimetry and dynamic visualization of IMRT and VMAT treatment plans in water using Cherenkov radiation. <i>Medical Physics</i> , 2014, 41, 062102.	1.6	39
28	Quantitative Cherenkov emission spectroscopy for tissue oxygenation assessment. <i>Optics Express</i> , 2012, 20, 5133.	1.7	36
29	Camera selection for real-time <i>in vivo</i> radiation treatment verification systems using Cherenkov imaging. <i>Medical Physics</i> , 2015, 42, 994-1004.	1.6	36
30	Multi-resolution open-top light-sheet microscopy to enable efficient 3D pathology workflows. <i>Biomedical Optics Express</i> , 2020, 11, 6605.	1.5	36
31	Oxygen tomography by Cherenkov-excited phosphorescence during external beam irradiation. <i>Journal of Biomedical Optics</i> , 2013, 18, 050503.	1.4	34
32	Fractal propagation method enables realistic optical microscopy simulations in biological tissues. <i>Optica</i> , 2016, 3, 861.	4.8	30
33	Surgical Guidance via Multiplexed Molecular Imaging of Fresh Tissues Labeled With SERS-Coded Nanoparticles. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 154-164.	1.9	29
34	Beam and tissue factors affecting Cherenkov image intensity for quantitative entrance and exit dosimetry on human tissue. <i>Journal of Biophotonics</i> , 2017, 10, 645-656.	1.1	29
35	Cherenkov excited phosphorescence-based pO_2 estimation during multi-beam radiation therapy: phantom and simulation studies. <i>Physics in Medicine and Biology</i> , 2014, 59, 5317-5328.	1.6	27
36	Optical cone beam tomography of Cherenkov-mediated signals for fast 3D dosimetry of x-ray photon beams in water. <i>Medical Physics</i> , 2015, 42, 4127-4136.	1.6	24

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37	FalseColor-Python: A rapid intensity-leveling and digital-staining package for fluorescence-based slide-free digital pathology. PLoS ONE, 2020, 15, e0233198.	1.1	23
38	Solid immersion meniscus lens (SIMlens) for open-top light-sheet microscopy. Optics Letters, 2019, 44, 4451.	1.7	23
39	Multidirectional digital scanned light-sheet microscopy enables uniform fluorescence excitation and contrast-enhanced imaging. Scientific Reports, 2018, 8, 13878.	1.6	22
40	Bessel-beam illumination in dual-axis confocal microscopy mitigates resolution degradation caused by refractive heterogeneities. Journal of Biophotonics, 2017, 10, 68-74.	1.1	17
41	Diagnosing 12 prostate needle cores within an hour of biopsy via open-top light-sheet microscopy. Journal of Biomedical Optics, 2020, 25, .	1.4	15
42	Performance tradeoffs for single- and dual-objective open-top light-sheet microscope designs: a simulation-based analysis. Biomedical Optics Express, 2020, 11, 4627.	1.5	14
43	Fluorescent labeling of abundant reactive entities (FLARE) for cleared-tissue and super-resolution microscopy. Nature Protocols, 2022, 17, 819-846.	5.5	9
44	Multiresolution nondestructive 3D pathology of whole lymph nodes for breast cancer staging. Journal of Biomedical Optics, 2022, 27, .	1.4	9
45	Cherenkov radiation dosimetry in water tanks – video rate imaging, tomography and IMRT & VMAT plan verification. Journal of Physics: Conference Series, 2015, 573, 012013.	0.3	5
46	Real-time video mosaicking to guide handheld in vivo microscopy. Journal of Biophotonics, 2020, 13, e202000048.	1.1	5
47	Time-gated Cherenkov emission spectroscopy from linear accelerator irradiation of tissue phantoms. , 2012, , .		4
48	Cherenkov emission spectroscopy for tissue oxygen saturation assessment. , 2012, , .		2
49	Assessment of biophysical tumor response to PDT in pancreatic cancer using localized reflectance spectroscopy. Proceedings of SPIE, 2011, , .	0.8	1
50	Using a reflectance-based correction on Cherenkov images to strengthen correlation with radiation surface dose in an anthropomorphic breast phantom. , 2016, , .		1
51	In Vivo Cherenkov Video Imaging during External Beam Radiation Therapy. , 2014, , .		1
52	GEANT4 - a new and robust tool for biophotonics Monte Carlo simulations. , 2014, , .		0
53	Cherenkov radiation fluence estimates in tissue for molecular imaging and therapy applications. Proceedings of SPIE, 2016, , .	0.8	0
54	Cherenkov imaging during volumetric modulated arc therapy for real-time radiation beam tracking and treatment response monitoring. Proceedings of SPIE, 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Numerical modeling of illumination and detection methods for light-sheet microscopy of optically clear biological tissues. , 2017, , .		0
56	A Handheld MEMS-Scanned in Vivo Optical-Sectioning Microscope for Early Detection and Surgical Guidance. , 2018, , .		0
57	An open-source software package to simulate Cherenkov-based optical measurements in biological media. , 2013, , .		0
58	Video-rate optical dosimetry of dynamic radiotherapy plans by the Cherenkov effect. , 2014, , .		0
59	Cherenkov imaging applications in radiation therapy dosimetry. Imaging in Medical Diagnosis and Therapy, 2016, , 385-402.	0.0	0
60	Multi-Resolution Open-Top Light Sheet Microscopy Enabled by a Solid Immersion Meniscus Lens (SIMlens). , 2020, , .		0
61	Light-sheet micro-dissection microscopy for improved molecular analysis of clinical specimens. , 2020, , .		0
62	Non-Orthogonal Dual-Objective (NODO) Open-Top Light-Sheet (OTLS) Microscopy for 3D Pathology of Cleared Clinical Specimens. , 2022, , .		0
63	Staging breast cancer metastases with multi-resolution 3D pathology of whole lymph nodes. , 2022, , .		0
64	Deep Learning-assisted 3D Segmentation and Analysis of Prostate Glands for Cancer Risk Stratification. , 2022, , .		0