

Zachary D Taylor

List of Publications by Year in descending order

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35
papers

1,060
citations

687363

13
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	THz Medical Imaging: in vivo Hydration Sensing. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 201-219.	3.1	282
2	Terahertz sensing in corneal tissues. Journal of Biomedical Optics, 2011, 16, 057003.	2.6	98
3	THz and mm-Wave Sensing of Corneal Tissue Water Content: In Vivo Sensing and Imaging Results. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 184-196.	3.1	98
4	THz and mm-Wave Sensing of Corneal Tissue Water Content: Electromagnetic Modeling and Analysis. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 170-183.	3.1	75
5	In vivo terahertz imaging of rat skin burns. Journal of Biomedical Optics, 2012, 17, 040503.	2.6	72
6	Stratified Media Model for Terahertz Reflectometry of the Skin. IEEE Sensors Journal, 2011, 11, 1253-1262.	4.7	66
7	THz Imaging System for <i>in vivo</i> Human Cornea. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 27-37.	3.1	58
8	Terahertz (THz) biophotonics technology: Instrumentation, techniques, and biomedical applications. Chemical Physics Reviews, 2022, 3, .	5.7	42
9	Non-invasive terahertz imaging of tissue water content for flap viability assessment. Biomedical Optics Express, 2017, 8, 460.	2.9	38
10	Optical System Design for Noncontact, Normal Incidence, THz Imaging of in vivo Human Cornea. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 1-12.	3.1	28
11	Dynamic Optical Contrast Imaging: A Technique to Differentiate Parathyroid Tissue from Surrounding Tissues. Otolaryngology - Head and Neck Surgery, 2017, 156, 480-483.	1.9	26
12	Terahertz Imaging of Cutaneous Edema: Correlation With Magnetic Resonance Imaging in Burn Wounds. IEEE Transactions on Biomedical Engineering, 2017, 64, 2682-2694.	4.2	22
13	Methods for registering and calibrating in vivo terahertz images of cutaneous burn wounds. Biomedical Optics Express, 2019, 10, 322.	2.9	22
14	Dynamic optical contrast imaging as a novel modality for rapidly distinguishing head and neck squamous cell carcinoma from surrounding normal tissue. Cancer, 2017, 123, 879-886.	4.1	15
15	Quasioptical System for Corneal Sensing at 220-330 GHz: Design, Evaluation, and <i>Ex Vivo</i> Cornea Parameter Extraction. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 135-149.	3.1	14
16	Polypeptide-Based Gold Nanoshells for Photothermal Therapy. SLAS Technology, 2017, 22, 18-25.	1.9	13
17	Point-of-Care Cerebrospinal Fluid Detection. Otolaryngology - Head and Neck Surgery, 2018, 159, 824-829.	1.9	13
18	Engineering A11 Minibody-Conjugated, Polypeptide-Based Gold Nanoshells for Prostate Stem Cell Antigen (PSCA)-Targeted Photothermal Therapy. SLAS Technology, 2017, 22, 26-35.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Extraction of Thickness and Water-Content Gradients in Hydrogel-Based Water-Backed Corneal Phantoms Via Submillimeter-Wave Reflectometry. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 647-659.	3.1	11
20	Submillimeter-Wave Permittivity Measurements of Bound Water in Collagen Hydrogels via Frequency Domain Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 538-547.	3.1	9
21	Preliminary results of non-contact THz imaging of cornea. , 2015, 9362, .		8
22	Laser-generated shockwaves enhance antibacterial activity against biofilms in vitro. Lasers in Surgery and Medicine, 2017, 49, 539-547.	2.1	8
23	Vector spherical harmonic analysis and experimental validation of spherical shells illuminated with broadband, millimeter wave Gaussian beams: applications to corneal sensing. Biomedical Optics Express, 2022, 13, 3699.	2.9	5
24	In-depth analysis of antibacterial mechanisms of laser generated shockwave treatment. Lasers in Surgery and Medicine, 2019, 51, 339-344.	2.1	4
25	Axicon-hyperbolic lens for reflectivity measurements of curved surfaces. , 2020, , .		4
26	Design and Characterization of Phase Holograms for Standoff Localization at Millimeter and Submillimeter Waves. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 907-918.	4.6	4
27	Ultrasound-stimulated vibro-acoustography for high-resolution differentiation based on viscoelastic properties of tissue mimicking phantoms. Studies in Health Technology and Informatics, 2014, 196, 262-4.	0.3	4
28	Millimeter- and Submillimeter-Wave Imaging Through Dispersive Hologram and Deep Neural Networks. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3281-3290.	4.6	4
29	Calibration Alignment Sensitivity in Corneal Terahertz Imaging. Sensors, 2022, 22, 3237.	3.8	4
30	THz medical imaging: Current status and future outlooks. , 2014, , .		1
31	Imaging autofluorescence temporal signatures of the human ocular fundus in vivo. Journal of Biomedical Optics, 2015, 20, 1.	2.6	1
32	Exploration of wound physiology using THz imaging. , 2014, , .		0
33	Effects of window index and thickness on hydration sensitivity and probing depth of THz imaging systems. , 2014, , .		0
34	THz hydration sensitivity: Dielectric substrate window considerations. , 2014, , .		0
35	Resolution and material assessment capability of a vibroacoustographic imaging system. AIP Advances, 2018, 8, 085315.	1.3	0