

Arsenii A Gavdush

List of Publications by Year in descending order

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all docs

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docs citations

39
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. Journal of Optics (United Kingdom), 2020, 22, 013001.	2.2	135
2	Terahertz radiation and the skin: a review. Journal of Biomedical Optics, 2021, 26, .	2.6	81
3	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. Journal of Biomedical Optics, 2019, 24, 1.	2.6	75
4	Highly Accurate in Vivo Terahertz Spectroscopy of Healthy Skin: Variation of Refractive Index and Absorption Coefficient Along the Human Body. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 817-827.	3.1	66
5	Accuracy of sample material parameters reconstruction using terahertz pulsed spectroscopy. Journal of Applied Physics, 2014, 115, .	2.5	50
6	Terahertz dielectric spectroscopy of human brain gliomas and intact tissues ex vivo: double-Debye and double-overdamped-oscillator models of dielectric response. Biomedical Optics Express, 2021, 12, 69.	2.9	40
7	Broadband spectroscopy of astrophysical ice analogues. Astronomy and Astrophysics, 2019, 629, A112.	5.1	29
8	Electrodynamical Characteristics of β -Lactose Monohydrate in the Terahertz Range. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2019, 126, 514-522.	0.6	27
9	Prospects of terahertz technology in diagnosis of human brain tumors – A review. Journal of Biomedical Photonics and Engineering, 2020, 6, .	0.7	27
10	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. Journal of Biophotonics, 2020, 13, e202000297.	2.3	24
11	Terahertz dielectric spectroscopy and solid immersion microscopy of ex vivo glioma model 101.8: brain tissue heterogeneity. Biomedical Optics Express, 2021, 12, 5272.	2.9	23
12	Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. Optica, 2021, 8, 1471.	9.3	23
13	Optical cryostat with sample rotating unit for polarization-sensitive terahertz and infrared spectroscopy. Optical Engineering, 2019, 59, 1.	1.0	21
14	Proof of concept for continuously-tunable terahertz bandpass filter based on a gradient metal-hole array. Optics Express, 2020, 28, 26228.	3.4	20
15	Moisture adsorption by decellularized bovine pericardium collagen matrices studied by terahertz pulsed spectroscopy and solid immersion microscopy. Biomedical Optics Express, 2021, 12, 5368.	2.9	17
16	Nanoporous SiO ₂ based on annealed artificial opals as a favorable material platform of terahertz optics. Optical Materials Express, 2020, 10, 2100.	3.0	17
17	Effect of moisture adsorption on the broadband dielectric response of SiO ₂ -based nanoporous glass. Journal of Applied Physics, 2019, 126, 224303.	2.5	16
18	<i>In vivo</i> terahertz pulsed spectroscopy of dysplastic and non-dysplastic skin nevi. Journal of Physics: Conference Series, 2016, 735, 012076.	0.4	15

#	ARTICLE	IF	CITATIONS
19	A method of studying spectral optical characteristics of a homogeneous medium by means of terahertz time-domain spectroscopy. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314gBT /Overlock 10	0.7	10
20	<i>In vivo</i> spectroscopy of healthy skin and pathology in terahertz frequency range. Journal of Physics: Conference Series, 2015, 584, 012023.	0.4	12
21	Novel Algorithm for Sample Material Parameter Determination using THz Time-Domain Spectrometer Signal Processing. Journal of Physics: Conference Series, 2014, 486, 012018.	0.4	11
22	Optical Properties of Hyperosmotic Agents for Immersion Clearing of Tissues in Terahertz Spectroscopy. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 1026-1035.	0.6	8
23	Wavelet-domain de-noising technique for THz pulsed spectroscopy. , 2014, , .		6
24	In situ terahertz monitoring of an ice ball formation during tissue cryosurgery: a feasibility test. Journal of Biomedical Optics, 2021, 26, .	2.6	6
25	In vitro terahertz spectroscopy of gelatin-embedded human brain tumors: a pilot study. , 2018, , .		6
26	Terahertz transmission-mode near-field scanning-probe microscope based on a flexible sapphire fiber. , 2019, , .		5
27	Terahertz spectroscopy of immersion optical clearing agents: DMSO, PG, EG, PEG. , 2018, , .		4
28	A Comparison of Terahertz Pulsed Spectroscopy and Backward-Wave Oscillator Spectroscopy. Journal of Physics: Conference Series, 2014, 536, 012009.	0.4	3
29	Non-destructive testing of composite materials using terahertz time-domain spectroscopy. , 2016, , .		3
30	A comparison of terahertz optical constants and diffusion coefficients of tissue immersion optical clearing agents. , 2019, , .		3
31	A method for reconstruction of terahertz dielectric response of thin liquid samples. , 2019, , .		2
32	Study of malignant brain gliomas using optical coherence tomography and terahertz pulsed spectroscopy aimed on advanced intraoperative neurodiagnosis. , 2019, , .		2
33	Continuously tunable middle-IR bandpass filters based on gradient metal-hole arrays for multispectral sensing and thermography. Journal of Applied Physics, 2022, 131, .	2.5	2
34	Terahertz time-domain spectroscopy of astrophysical ice analogs: A pilot study. EPJ Web of Conferences, 2018, 195, 06004.	0.3	1
35	Terahertz pulsed spectroscopy of human brain tumors in a gelatin slab. , 2019, , .		1
36	Summer school in Kabardino-Balkaria by BMSTU SPIE Student Chapter. Proceedings of SPIE, 2014, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	In vitro terahertz spectroscopy of malignant brain gliomas embedded in gelatin slab. , 2018, , .		0
38	Double-overdamped-oscillator model of terahertz complex dielectric permittivity of human brain tissues. , 2021, , .		0
39	Terahertz pulsed spectroscopy of medium polymerization. , 2016, , .		0