

Arsenii A Gavdush

List of Publications by Year in descending order

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39
papers

795
citations

516710

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552781

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39
docs citations

39
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuously tunable middle-IR bandpass filters based on gradient metal-hole arrays for multispectral sensing and thermography. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	2
2	In situ terahertz monitoring of an ice ball formation during tissue cryosurgery: a feasibility test. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	6
3	Terahertz radiation and the skin: a review. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	81
4	Terahertz dielectric spectroscopy and solid immersion microscopy of ex vivo glioma model 101.8: brain tissue heterogeneity. <i>Biomedical Optics Express</i> , 2021, 12, 5272.	2.9	23
5	Moisture adsorption by decellularized bovine pericardium collagen matrices studied by terahertz pulsed spectroscopy and solid immersion microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 5368.	2.9	17
6	Double-overdamped-oscillator model of terahertz complex dielectric permittivity of human brain tissues. , 2021, , .		0
7	Terahertz dielectric spectroscopy of human brain gliomas and intact tissues ex vivo: double-Debye and double-overdamped-oscillator models of dielectric response. <i>Biomedical Optics Express</i> , 2021, 12, 69.	2.9	40
8	Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. <i>Optica</i> , 2021, 8, 1471.	9.3	23
9	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 013001.	2.2	135
10	Optical Properties of Hyperosmotic Agents for Immersion Clearing of Tissues in Terahertz Spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 1026-1035.	0.6	8
11	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. <i>Journal of Biophotonics</i> , 2020, 13, e202000297.	2.3	24
12	Proof of concept for continuously-tunable terahertz bandpass filter based on a gradient metal-hole array. <i>Optics Express</i> , 2020, 28, 26228.	3.4	20
13	Nanoporous SiO ₂ based on annealed artificial opals as a favorable material platform of terahertz optics. <i>Optical Materials Express</i> , 2020, 10, 2100.	3.0	17
14	Prospects of terahertz technology in diagnosis of human brain tumors – A review. <i>Journal of Biomedical Photonics and Engineering</i> , 2020, 6, .	0.7	27
15	Broadband spectroscopy of astrophysical ice analogues. <i>Astronomy and Astrophysics</i> , 2019, 629, A112.	5.1	29
16	Electrodynamical Characteristics of $\hat{\epsilon}$ -Lactose Monohydrate in the Terahertz Range. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019, 126, 514-522.	0.6	27
17	Effect of moisture adsorption on the broadband dielectric response of SiO ₂ -based nanoporous glass. <i>Journal of Applied Physics</i> , 2019, 126, 224303.	2.5	16
18	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	75

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19	Optical cryostat with sample rotating unit for polarization-sensitive terahertz and infrared spectroscopy. <i>Optical Engineering</i> , 2019, 59, 1.	1.0	21
20	A comparison of terahertz optical constants and diffusion coefficients of tissue immersion optical clearing agents. , 2019, , .		3
21	A method for reconstruction of terahertz dielectric response of thin liquid samples. , 2019, , .		2
22	Terahertz transmission-mode near-field scanning-probe microscope based on a flexible sapphire fiber. , 2019, , .		5
23	Terahertz pulsed spectroscopy of human brain tumors in a gelatin slab. , 2019, , .		1
24	Study of malignant brain gliomas using optical coherence tomography and terahertz pulsed spectroscopy aimed on advanced intraoperative neurodiagnosis. , 2019, , .		2
25	Terahertz time-domain spectroscopy of astrophysical ice analogs: A pilot study. <i>EPJ Web of Conferences</i> , 2018, 195, 06004.	0.3	1
26	In vitro terahertz spectroscopy of malignant brain gliomas embedded in gelatin slab. , 2018, , .		0
27	In vitro terahertz spectroscopy of gelatin-embedded human brain tumors: a pilot study. , 2018, , .		6
28	Terahertz spectroscopy of immersion optical clearing agents: DMSO, PG, EG, PEG. , 2018, , .		4
29	<i>In vivo</i> terahertz pulsed spectroscopy of dysplastic and non-dysplastic skin nevi. <i>Journal of Physics: Conference Series</i> , 2016, 735, 012076.	0.4	15
30	Non-destructive testing of composite materials using terahertz time-domain spectroscopy. , 2016, , .		3
31	Terahertz pulsed spectroscopy of medium polymerization. , 2016, , .		0
32	A method of studying spectral optical characteristics of a homogeneous medium by means of terahertz time-domain spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika i Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 21)</i>		10
33	<i>In vivo</i> spectroscopy of healthy skin and pathology in terahertz frequency range. <i>Journal of Physics: Conference Series</i> , 2015, 584, 012023.	0.4	12
34	Highly Accurate in Vivo Terahertz Spectroscopy of Healthy Skin: Variation of Refractive Index and Absorption Coefficient Along the Human Body. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 817-827.	3.1	66
35	Wavelet-domain de-noising technique for THz pulsed spectroscopy. , 2014, , .		6
36	Summer school in Kabardino-Balkaria by BMSTU SPIE Student Chapter. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0

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37	Accuracy of sample material parameters reconstruction using terahertz pulsed spectroscopy. Journal of Applied Physics, 2014, 115, .	2.5	50
38	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
39	A Comparison of Terahertz Pulsed Spectroscopy and Backward-Wave Oscillator Spectroscopy. Journal of Physics: Conference Series, 2014, 536, 012009.	0.4	3