

September 29, 2020

Terahertz Optics and Biophotonics III
 Chair - Nikita V. Chernomyrdin, E-mail: chernik-a@yandex.ru
 ZOOM room "THz": **TO BE ANOUNCED**

#	Authors	E-mail	Title	Type	Date, Time
1	A.M. Lerer (A.M. Lerer, G.S. Makeeva, V.V. Cherepanov, I. N. Ivanova)	lerer@sfedu.ru	Reconfigurable broadband terahertz perfect absorbers and generators based on multilayer graphene ribbon plasmonic structures	invited	13.00 - 13.20
2	D.S. Ponomarev (D.V. Lavrukhin, A.E. Yachmenev, R.A. Khabibullin, Yu.G. Goncharov, I.E. Spektor, K.I. Zaytsev, D.S. Ponomarev)	ponomarev_dmitr@mail.ru	Photoconductive THz detector featuring an artificially strained InGaAs/InAlAs superlattice	invited	13.20 - 13.40
3	O.P. Cherkasova	o.p.cherkasova@gmail.com	Diagnosis of glioma molecular markers by terahertz spectroscopy	invited	13.40 - 14.00
4	N.V. Zenchenko (N.V. Zenchenko, I.A. Glinskiy, D.V. Lavrukhin, G.M. Katyba, E.V. Yakovlev, K.I. Zaytsev, D.S. Ponomarev)	ponomarev_dmitr@mail.ru	Sapphire fiber metalens for THz photoconductive devices	oral	14.00 - 14.20
Break					14.20 - 15.00
5	O.P. Cherkasova (M.R. Konnikova, M.M. Nazarov, O.P. Cherkasova, E.N. Lazareva, P.A. Dyachenko, V. V. Tuchin, A.P. Shkurinov)	o.p.cherkasova@gmail.com	Dielectric properties of blood serum with liver cancer in THz frequency range	invited	15.00 - 15.20
6	M.R. Konnikova (M.R. Konnikova, O.P. Cherkasova, M.M. Nazarov, Y.V. Kistenev, D.A. Vrazhnov, A.P. Shkurinov)	konnikovamaria@gmail.com	THz spectroscopy as a diagnostic method for thyroid cancer	oral	15.20 - 15.40
7	A.A. Lykina (A.A. Lykina, M.M. Nazarov, M.R. Konnikova, V. N. Trukhin, P.G. Gavrilova, V.L. Vaks, V.A. Anfertyev, E.G. Domracheva, M.B. Chernyaeva, Yu.V. Kistenev, D.A. Vrazhnov, V.V. Prischepa, Yu.A. Kononova, D.V. Korolev, Ya.G. Toropova, O.P. Cherkasova, A.P. Shkurinov, O.A. Smolyanskaya)	zuum63@mail.ru	Development of pellets for studying the diabetic blood plasma in the THz frequency range	oral	15.40 - 16.00

8	E.L. Odlyanitskiy (E.L. Odlyanitskiy, M.S. Kulya, Q. Cassar, I.A. Mustafin, V.N. Trukhin, D.V. Korolev, Y.V. Kononova, P. Mounaix, J.P. Guillet, N.V. Petrov, O.A. Smolyanskaya)	gen_odly@mail.ru	Fast assessment of the optical properties of diabetic blood plasma using the terahertz holographic imaging method	oral	16.00 - 16.20
Advanced Materials for Optics and Biophotonics III Chair - Gleb M. Katyba, E-mail: katyba_gm@issp.ac.ru ZOOM room "Materials": TO BE ANOUNCED					
#	Authors	E-mail	Title	Type	Date, Time
1	Timothy Douglas	t.douglas@lancaster.ac.uk	Whey protein isolate hydrogel-based biomaterials	invited	13.00 - 13.20
2	D. Vigneswaran (D. Vigneswaran, J.S. Skibina, M.S. Manirajan)	dhasa.viki@gmail.com	Exploring Next generation Few Mode Assisting Elliptical Ring Core Cladding Optical Fiber	invited	13.20 - 13.40
3	G.S. Sokolovskii	gs@mail.ioffe.ru	High-power mid-infrared quantum-cascade lasers	invited	13.40 - 14.00
4	R.A. Khabibullin (R.A. Khabibullin, D.V. Ushakov, A.A. Afonenko, D.S. Ponomarev, S.V. Morozov, and A.A. Dubinov)	khabibullin@isvch.ru	HgCdTe-based quantum cascade lasers bridging the gap between THz and far-IR ranges	invited	14.00 - 14.20
Break					14.20 - 15.00
5	M.S. Kovalev (M.S. Kovalev, N.G. Stsepuro, G.K. Krasin, S.I. Kudryashov)	m.s.kovalev@gmail.com	Metaelements formation via volume microstructuring of silicate glass using femtosecond laser radiation	oral	15.00 - 15.20
6	K.G. Kudrin (K.G. Kudrin, E.N. Rimskaya, I.A. Apollonova, A. P. Nikolaev, N.V. Chernomyrdin, D.S. Sviatoslavov, D.V. Davydov, I.V. Reshetov)	kudrin_k@rambler.ru	Screening and diagnosis of skin melanoma using multiple imaging systems	oral	15.20 - 15.40
7	M.K. Tarabrin & V.A. Lazarev (M.K. Tarabrin, D.A. Nazarov, V.A. Lazarev)	sintetaza@mail.ru	Solid-state Cr ²⁺ :ZnSe laser for OCT imaging in the fourth near-infrared optical window	invited	15.40 - 16.00
Joint Poster Internet Session Conference Web-site					
#	Authors	E-mail	Title	Type	Date, Time
1	N.V. Chernomyrdin (N.V. Chernomyrdin, A.S. Kucheryavenko, V.A. Zhelnov, I.N. Dolganova, G.A. Katyba, I.V. Reshetov, V.V. Tuchin, K.I. Zaytsev)	chernik-a@yandex.ru	Recent advances in terahertz solid immersion microscopy of soft biological tissues	poster	THz Bio

2	A.A. Gavdush (A.A. Gavdush, B.M. Giuliano, B. Müller, G.A. Komandin, K.I. Zaytsev, A.V. Ivlev, and P. Caselli)	arsenii.a.gavdush@gmail.com	Study of interstellar and circumstellar ice analogs using terahertz pulsed spectroscopy and Fourier-transform infrared spectroscopy	poster	THz Bio
3	Vladimir Kaydashev (V. Kaydashev, S. Zhukov, M. Kutepov, I. Domaratskiy, A. Slavich)	kaydashev@gmail.com	Metasurfaces based on Au and VO ₂ for THz applications	poster	THz Bio
4	Knyazkova Anastasia (Knyazkova A.I., Samarina A.A., Borisov A.V., Skiba V.E., Kistenev Yu.V.)	a_knyazkova@bk.ru	THz and IR molecular imaging of paraffin-embedded cancerous tissues	poster	THz Bio
5	G.R. Musina (G.R. Musina, A.A. Gavdush, N.V. Chernomyrdin, I.N. Dolganova, V.E. Ulitko, N.A. Naumova, G.A. Komandin, V.V. Tuchin, and K.I. Zaytsev)	guzel-musina12@mail.ru	Optimal agents for immersion optical clearing of tissues at terahertz frequencies	poster	THz Bio
6	V.E. Ulitko (V.E. Ulitko, A.K. Zotov, A.A. Gavdush, G.M. Katyba, G.A. Komandin, I.E. Spector, I.M. Shmytko, G.A. Emelchenko, I.N. Dolganova, M. Skorobogatiy, V.N. Kurlov, V.M. Masalov, K.I. Zaytsev)	ulitko.vl@gmail.com	Nanoporous SiO ₂ based on annealed artificial opals as a favorable material platform for terahertz optics	poster	Adv Materials
7	G.M. Katyba (G.M. Katyba, I.N. Dolganova, I.A. Shikunova, D.O. Strukov, N.V. Chernomyrdin, K.I. Zaytsev, and V.N. Kurlov)	katyba_gm@issp.ac.ru	Step-index sapphire fiber and its application in a terahertz near-field microscopy	poster	Adv Materials
8	A.K. Zotov (A.K. Zotov, I.N. Dolganova, K.I. Zaytsev, I.A. Shikunova, N.A. Naumova, L.P. Safonova, P.V. Aleksandrova, and V.N. Kurlov)	akzotov@hotmail.com	Optically-controlled cryodestruction of biological tissues using sapphire applicators	poster	Adv Materials
9	P.V. Aleksandrova (P.V. Aleksandrova, I.N. Dolganova, P.V. Nikitin, A.I. Alekseeva, N.V. Chernomyrdin, N.A. Naumova, S.-I.T. Beshplav, I.V. Reshetov, A.A. Potapov, V.N. Kurlov, V.V. Tuchin, and K. I. Zaytsev)	aleksandrovapolina98@gmail.com	A potential of optical coherence tomography for the differentiation of intact brain tissue, human brain gliomas of different WHO grades and glioma model 101.8	poster	Adv Materials
10	E.N. Rimskaya (E.N. Rimskaya, K.G. Kudrin, I.A. Apollonova, A. P. Nikolaev, N.V. Chernomyrdin, D.V. Davydov and I.V. Reshetov)	romehelen@gmail.com	Features of the development of a standard for testing the system of automated morphometry of clinical images of pigmented skin neoplasms	poster	Adv Materials

11	N.A. Zelenina (N.A. Zelenina, V.V. Zalipaev, A.S. Izmailov, O. A. Smolyanskaya)	smolyanskaya@itmo.ru	Calculation of thermal conductivity and attenuation of pulsed laser radiation in the eye tissue	poster	Adv Materials
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