

Science&Progress 2020

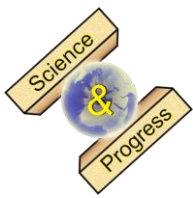
Section F

Tuesday 10 Nov, moderator N.A. Timofeev
12:00-13:30

12:00-12:15	Connection test
12:15-12:30	Alyona Mikheleva IR spectroscopic study of photostimulated CO desorption on the TiO ₂ surface
12:30-12:45	Ivan Giba Complexation of phosphonic acids: Self-association and hydrogen-bonding with nitrogen bases
12:45-13:00	Tatiana Kataeva Evolution of the band contours in the absorption spectra of the SF ₆ during phase transitions
13:00-13:15	Mikhail Kostin The study of non-covalent interactions involving models of modern volatile anesthetics by quantum-chemistry calculations and NMR spectroscopy
13:15-13:30	Oleg Pestsov Resonance IR photochemistry of adsorbed molecules

15:30-17:45

15:30-15:45	Connection test
15:45-16:00	Yaroslav Shergin A study of adsorption on CaY zeolite by DFT calculation
16:00-16:15	Timur Aminev Ozone adsorption on TiO ₂ : experiment and DFT calculation
16:15-16:30	Denis Baranov Isotopic isomerism of adsorbed CO. DFT calculation
16:30-16:45	Ekaterina Boichenko Online tumor margins control via near-infrared fiber optic probe: towards the cancer surgery enhancement
16:45-17:00	Valerii Karpov Quantum chemical investigation of electronic structure of selenocysteine as a model of antioxidant enzyme glutathione peroxidase in redox reactions
17:00-17:15	Irina Malysheva Magneto-optical effects in hyperbolic metamaterials based on Au/Ni nanorods' arrays
17:15-17:30	Viktor Mitryakhin Gires-Tournois interferometer with a quantum well mirror
17:30-17:45	Mikhail Nikitin Angular determination algorithm development for autocollimation systems with trihedral reflectors with cylindrical surface



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Thursday 12 Nov
11:45-13:30

11:45-12:00	Connection test
12:00-12:15	Alexandra Sokolova Optical spectroscopy of chitin-based metal-dielectric microstructures
12:15-12:30	Alla Uvarova Optical design of microscope objective with increased working distance
12:30-12:45	Tatyana Gurkova Resonant behavior of the plasma electron component and stratification of a discharge in inert gases
12:45-13:00	Alexey Petrov Combined spectroelectrochemical cell for photoelectrochemical experiment
13:00-13:15	Anna Titova Intensities in IR spectra as a measure of FH...X hydrogen bond strength
13:15-13:30	Vsevolod Yudin Photoluminescence spectra modeling of ion beam irradiated CsPbBr ₃ halide perovskites single crystal