

PROGRAM
15th International symposium & COST Workshop
"Optics and its Applications" (OPTICS-15)
4 – 8 May 2026, Yerevan, Armenia

4 May YSU <i>1 Alek Manukyan St.</i>	5 May IAPP <i>25 Hr. Nersisyan St.</i>	6 May YSU <i>1 Alek Manukyan St.</i>	7 May YSU <i>1 Alek Manukyan St.</i>	8 May YSU <i>1 Alek Manukyan St.</i>
09:00-09:55 REGISTRATION	09:00-09:20 Registration	09:00-09:30 Registration	09:00-09:30 T. Novikova	09:00-09:30 D. Blaschke
10:00-10:10 Opening: D. Blaschke H. Sarkisyan	09:20-11:00 Poster Session	09:30-09:50 Presentation of the Workshop: T. Gric, N. Gevorgyan	09:30-10:00 D. Kardaglic	09:30-10:00 O. Ivanovski
10:10-10:30 A. Papoyan	10:30-11:00 Coffee-break	09:50-10:00 F.A. Teksen	10:00-10:30 M. Veres	10:00-10:20 Coffee-break
10:30-10:50 Coffee-break	11:00-11:20 M. Zhezhu	10:00 - 10:30 E. Rafailov	10:30-11:00 P. Loza-Alvarez	10:20-10:50 R. Sroka
10:50-11:20 T. Shahbazyan	11:20-11:40 G. Kocharyan	10:30-10:50 Coffee-break	11:00-11:30 A. Krmpot	10:50-11:20 L. Aloyan
11:20-11:40 A. Sargsyan	11:40-12:10 A. Gogyan	10:50-11:20 T. Gric	11:30-13:00 Lunch break	11:20-11:50 F. Pavone
11:40-12:00 N. Grigoryan	12:10-12:30 A. Tonoyan	11:20-11:50 K. Edee	13:00 Excursion	11:50-12:20 J. Palhalmi
12:00-12:20 H. Gharagulyan	12:30-14:00 Lunch break	11:50-12:20 A. Haj Taieb		12:20 Closing
12:20-12:40 V. Kotanjyan	14:00-14:20 Z. Adamyan	12:20-14:00 Lunch break		12:30 Farewell refreshment
12:40-14:00 Lunch break	14:20-14:40 A. Kuzanyan	14:00-14:30 V. Barygina		
14:00-14:20 T. Sarukhanyan	14:40-15:00 A. Asatryan	14:30-15:00 M. Bakir		
14:20-16:10 11 Students talks (10')	15:00-15:20 H. Sarkisyan	15:00-15:30 I. Urzica		
A. Sahakyan	15:20-15:50 Coffee-break	15:30-16:00 M. Bojan		
R. Mkrtchyan	16:00-18:00 Lab Tours	16:00 - 16:10 Group Photo		
A. Nahapetyan		16:10-16:30 Coffee-break		
M. Manvelyan		16:20-18:00 Lab Tours		
L. Mheryan		19:00 OPTICS-15 Banquet		
R. Sahakyan				
A. Avetisyan				
N. Gharibyan				
A. Voskanyan				
V. Hovhannisyan				
A. Sedrakyan				
16:10-16:30 Coffee-break				
16:30-16:50 L. Tsarukyan				
16:50-17:10 K. Aramyan				
17:10-17:30 A. Gevorkyan				
17:30-17:50 G. Movsesyan				

Invited Speakers

Lusine ALOYAN (Yerevan State University, Armenia; A. Alikhanyan National Laboratory, Armenia),
A. Avetisyan, G. Khachatryan, A. Yeghiazaryan

Light and Porphyrins: From Molecular Interactions to Antimicrobial Action

Mehmet BAKIR (Yozgat Bozok University, Engineering-Architecture Faculty, Dept. of Computer Science,
Türkiye), M. Karaaslan, K.M. Purlu, K.K.M. Elmabruk

**Advanced Design, Fabrication, and Terahertz Characterization of Antiresonant
Negative-Curvature Fibers**

Victoria BARYGINA (Università di Firenze, Italy)

**Multimodal Fiber-Optic Sensing for Non-Invasive Profiling of Psychological Stress in
Human Skin**

David BLASCHKE (University of Wrocław, Poland; Center of Advanced Systems Understanding, Görlitz,
Germany; Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany)

**Development of high-intensity laser technologies at HZDR for fundamental research and
cancer therapy**

Mihaela BOJAN (National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania),
I. Antohe, A. Adalberto, D. Ledezma

**Michelson Interferometric Testing of Material-Coated Optical Fiber Tips for Optical
Sensor Applications**

Kofi EDEE (Institut Pascal, France)

**VO₂ as a Statistically Correlated Disordered random Metamedium: A Complex-Valued
Mixing Parameter Model for Correlated Phase Transitions**

Anahit GOGYAN (Institute for Physical Research, Armenia), A. Sargsyan, D. Sarkisyan

Study of residual rubidium atomic vapors in a Cs cell

Tatjana GRIC (Vilnius TECH, Vilnius, Lithuania)

**Metamaterials: A Roadmap from the Perspectives of the Effective Properties and
Medical Applications**

Amine HAJ TAIEB (ISAMS, University of Sfax, Tunisia)

Flexible Textile-Based Metamaterials for Adaptive Optical Cloaking Applications

Ognen IVANOVSKI (Medical Faculty Skopje, Ss. Cyril and Methodius University, North Macedonia),
B. Shabani

**Advanced optical technologies in bladder cancer detection and diagnosis: current
perspectives**

Dejan KARADAGLIĆ (University of Montenegro, Faculty of Electrical Engineering, Podgorica,
Montenegro)

Optical 3D Microscopy via Structured Illumination

Aleksandar KRMPOT (Institute of Physics Belgrade, University of Belgrade, Serbia), M. Bukumira,
T. Pajić, K. Stevanović, N. Todorović, S. Savić Šević, A. Senkić, N. Vujičić, M. Živić, M. Rabasović

**Nonlinear Imaging, Laser Nano Surgery, and Electrophysiological Measurements on Single
Fungal Cell**

Pablo LOZA-ALVAEZ (ICFO - Institut de Ciències Fòtoniques, The Barcelona Institute of Science and Technology, Spain)

Selected biomedical applications in Light sheet microscopy

Igor MEGLINSKI (Aston University, UK), E. Vasilieva, I. Arif, A. Doronim, A. Bykov

Skyrmion-Like Polarization Topology in Scattered Circularly Polarized Light for Tissue Diagnosis

Tatiana NOVIKOVA (LPICM, CNRS, Ecole polytechnique, Paris, France; Department of Biomedical Engineering, Florida International University, USA), S. Chae, T. Lucas, O. Rodriguez-Nunez, E. Gros, T. Maragkou, R. McKinley, Ph. Schucht

Polarized Light Imaging of Brain: Insights for Tumor Neurosurgery

János PÁLHALMI (Datasenselabs Kft, Hungary)

Comparative Evaluation of Digital Biomarkers versus AI-Based Object Detection Outputs in Computational Pathology

Francesco PAVONE (University of Florence, Italy)

AI-assisted morphochemistry assessment in tissues

Edik RAFAILOV (Aston University, UK)

Advances in non-invasive wearable device technology for health monitoring application

Tigran V. SHAHBAZIAN (Jackson State University, USA)

Temporal Dispersion Effects in Optical Spectra of Exciton-Plasmon Systems at Strong Coupling

Ronald SROKA (Laser-Forschungslabor, LIFE-Center, Dept. of Urology, LMU-Munich, Germany), A. Ruehm, N. Wirtz, M. Aumiller

Biophotonic on it's way to pathology and optical biopsy

Iuliana URZICA (National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania), M. Bojan, P. Gheorghe, C. Udrea

Microfluidic properties of laser exposed metallic surface

Miklós VERES (Institute for Solid State Physics and Optics, HUN-REN Wigner Research Center for Physics, Hungary), M.E. Darvin, V.V. Tuchin, A. Jaafar

Improving in-depth Raman analysis of tissues by optical clearing

Contributed Talks

Zhirayr ADAMYAN (CANDLE Synchrotron Research Institute, Armenia; Yerevan State University, Armenia), V. Ohanyan

Bipartite entanglement transfer in convex polygon molecular magnets

Karen ARAMYAN (Institute of Applied Problems of Physics, Armenia), A. Antonyan

High-frequency conductivity of thin metal films in the presence of correlated roughness and a gradient distribution of point defects

Arevik ASATRYAN (A.B. Nalbandyan Institute of Chemical Physics, Armenia; Institute of Radiophysics and Electronics, Armenia), G. Kolotyan, T. Mkhitarian, V. Hovhannisyanyan, S. Grigoryan, M.J. Schöning, H. Khachatryan

Predictive Optimization of Thin Film Uniformity Using Low-Complexity Machine Learning Models

Anna AVETISYAN (Ultrafast Optics and Photonics Laboratory, Yerevan State University, Armenia), M. Papyan, L. Mikaelyan, A. Kutuzyan

Spectral Phase Dominance in Ultrashort Pulse Formation: A Temporal Analogue of the Phase-Swap Experiment

Ashot GEVORKYAN (Institute for Informatics and Automation Problems, Armenia; Institute of Applied Problems of Physics, Armenia)

Propagation of a Single Photon in a Nanowaveguide with Randomly Located Two-Level Quantum Dots Inside

Hermine GHARAGULYAN (A.B. Nalbandyan Institute of Chemical Physics, Armenia; Institute of Physics, Yerevan State University, Armenia)

Liquid Crystalline 2D Hybrid Nanomaterials for Sensing Applications

Nelli GHARIBYAN (Institute of Applied Problems of Physics, Armenia), R.P. Sukiasyan, M. Sahakyan, R.A. Apreyan, H.R. Dashtoyan, A.K. Atanesyan

Study of Some Amino Acid Sulfosalicylate Crystals

Naira GRIGORYAN (Institute of Fundamental Technological Research PAS, Poland), A. Roszkiewicz, P. Chudzinski

Vertical Array of Multi-walled Nanotubes as a Photonic Crystal: Dielectric Function Calculation in Many-Body formalism

Vahe HOVHANNISYAN (Institute of Applied Problems of Physics, Armenia; Yerevan State University, Armenia), M. Hovhannisyanyan, A. Sedrakyan, A. Voskanyan, S. Mkhitarian, H. Abrahamyan, L. Mahtesyan, A. Mahtessian

Optical Investigations of Extended Radiogalaxy 3C 310

Gaspar KOCHARYAN (A.B. Nalbandyan Institute of Chemical Physics, Armenia), N. Nwaji, H. Gharagulyan

Liquid Crystalline Graphene Oxide Films as Supercapacitor Materials

Vardazar KOTANJYAN (Institute of Physics, Yerevan State University, Armenia; Institute of Applied Problems of Physics, Armenia), A. Saharian, A. Kotanjyan

Features of radiation from a charge in coaxial helical motion around a cylindrical waveguide

Astghik KUZANYAN (Institute for Physical Research, Armenia), V. Nikoghosyan, L. Mheryan, A. Kuzanyan

High-efficiency sensor for thermoelectric single-photon detector operating in the 0.5-4.2 k temperature range

Manvel MANVELYAN (Institute of Applied Problems of Physics, Armenia), M.M. Mkrtchyan, S.B. Dabagov, H.A. Sarkisyan

Electric field orientation and dielectric confinement control of the impurity photoionization in CdSe nanoplatelets

Lusine MHERYAN (Institute for Physical Research, Armenia), A.S. Kuzanyan, V.R. Nikoghosyan, Astghik A. Kuzanyan

Detection Pixel of a Multilayer Thermoelectric Single-Photon Detector

Grigor MOVSESYAN (Institute for Informatics and Automation Problems, Armenia; Yerevan State University, Armenia), A. Gevorkyan

Optical Properties of Quantum Vacuum

Aram NAHAPETYAN (Institute of Applied Problems of Physics, Armenia), M. Mkrtchyan, H. Sarkisyan, M. Vinichenko, D. Firsov

Long-wave magnetoabsorption in asymmetric ellipsoidal quantum dot

Aram PAPOYAN (Institute for Physical Research, Armenia), S. Shmavonyan, A. Khanbekyan, M. Movsisyan

Free induction decay of degenerate mirrorless generation in hot alkali vapor: response to pulsed excitation

Angelina SAHAKYAN (A.I. Alikhanyan National Science Laboratory, Armenia), L. Aloyan, A. Eghiazaryan, S. Hakobyan, G. Khachatryan

Light-Activated Antimicrobial Effect of Cationic Porphyrins

Roman SAHAKYAN (Russian-Armeni University, Yerevan, Armenia), E. Gazazyan

Laser-Controlled Population Dynamics and Quantum Logic Operations in the Multilevel Cs D₂ System

Armen SARGSYAN (Institute for Physical Research, Armenia), A. Gogyan, D. Sarkisyan

Atom-surface interaction studies on Cs 6S→7P transition

Hayk SARKISYAN (Institute of Applied Problems of Physics, Armenia), A. Nahapetyan, I. Safaryan, M. Mkrtchyan, T. Hakobyan, M. Vinichenko, D. Firsov

Exactly solvable models for description of long-wave multiparticle absorption in quantum dots

Tatevik SARUKHANYAN (Institute of Physics, Yerevan State University, Armenia), A. Mikayelyan, M. Mkhitarian, M. Rafayelyan, H. Ottevaere, T. Baghdasaryan

High-Precision Microfabrication of Pillars and Cubes via Two-Photon Lithography

Artush SEDRAKYAN (Institute of Applied Problems of Physics, Armenia; Yerevan State University, Armenia), M. Hovhannisyanyan, V. Hovhannisyanyan, A. Voskanyan, S. Mkhitarian, H. Abrahamyan, L. Mahtesyan, A. Mahtessian

Optical Investigations of Extended Radiogalaxy 4C 31.32

Ara TONOYAN (Institute for Physical Research, Armenia), S. Subhadarshinee Sahoo, A. Gogyan, O. Tretiak, R. Aramyan, A. Akulshin, D. Budker

Second-order correlations in directed emissions in sodium atoms

Lusine TSARUKYAN (Institute for Physical Research, Armenia), A. Badalyan, R. Drampyan

Comparative study of DNA imaging and sizing by elaborated photovoltaic tweezers-based phase microscopy and state-of-the-art fluorescence microscopy

Aleksandr S. VOSKANYAN (Institute of Applied Problems of Physics, Armenia; Yerevan State University, Armenia), M.A. Hovhannisyan, V.H. Hovhannisyan, A.K. Sedrakyan, S.A. Mkhitarian, H.V. Abrahamyan, L.A. Mahtesyan, A.P. Mahtessian

Optical Investigations of Extended Radiogalaxy 3C 31

Marina ZHEZHU (A.B. Nalbandyan Institute of Chemical Physics, Armenia), M. Yaprntsev, A. Musayelyan, A. Vasil'ev, O. Ivanov

Doping-Induced Phase Transitions and Functional Transport Properties in $Ge_2Sb_2Te_5$ Phase-Change Films

Posters

- 1) **Gayane V. ANANYAN** (Department of Physics, Yerevan State University, Armenia), R.S. Ghazaryan, A. Badasyan, N.H. Karapetyan
Study of the interaction of Copper Porphyrin with Cisplatin-Modified DNA using UV-visible and CD spectroscopy
- 2) **Susanna ATOYAN** (A.B. Nalbandyan Institute of Chemical Physics, Armenia), M. Torosyan, N. Poghosyan, A. Asatryan, M. Aghayan
Elastomer Thin Films for Artificial Muscles: Processing-Property Relationships
- 3) **Lilit AVANESYAN** (A.B. Nalbandyan Institute of Chemical Physics, Armenia), S. Gyoalyan, H. Gharagulyan
Liquid Crystalline GO Microdroplet Fabrication in PDMS Chips
- 4) **Ani AVETISYAN** (Yerevan State University, Armenia), L. Mkrtchyan, M. Avetisyan, L. Aloyan
The comparative study of AgTOEPyP4 and ZnTOEPyP4 porphyrins with DNA and platinated DNA by optical methods
- 5) **Yuri S. BABAYAN** (National University of Architecture and Construction of Armenia, Armenia), V.P. Kalantaryan, R.S. Ghazaryan, N.H. Karapetyan, G.V. Ananyan, A.A. Tadevosyan, L.R. Soghomomyan,
Using Modulated Non-Thermal Electromagnetic Waves to Reduce Toxic Side Effects of Anticancer Drugs on Living Organisms
- 6) **Yuri S. BABAYAN** (National University of Architecture and Construction of Armenia, Armenia), R.S. Ghazaryan, N.H. Karapetyan, G.V. Ananyan, L.R. Soghomonyanc
Determination of the structure of poly(dI-dC) in aqueous solutions by spectrometric methods
- 7) **Gayane BAGHDASARYAN** (A.B. Nalbandyan Institute of Chemical Physics, Armenia), H. Gharagulyan
Role of Surfactants and Solvents in the Liquid Crystalline Self-Assembly of 2D WS₂ Nanosheets
- 8) **Hayk ELBAKYAN** (A.I. Alikhanyan National Science Laboratory, Armenia), V. Kakoyan, S. Zhamkochyan, V. Bardakhchyan, S. Abrahamyan, A. Margaryan, A. Kakoyan, H. Rostomyan, A. Safaryan, G. Sughyan, H. Gevorgyan, A. Papyan, M. Pinamyanyan, M. Ivanyan, S.N. Nakamura, J. Annand, K. Livingston, R. Montgomery, P. Achenbach, J. Pochodzalla, D.L. Balabanski, A. Aprahamian, V. Sharyy, D. Yvon
A Helical-Deflector-Based Radio-Frequency Spiral Scanning System for keV Energy Electrons
- 9) **Iryna GRANKINA** (Institute for Scintillation Materials NAS of Ukraine, Kharkiv, Ukraine), I. Borovoy, S. Hrankina, S. Yefimova, A.V. Sorokin
Fluorescent properties of amphi-PIC J-aggregates in complexes with bovine serum albumin
- 10) **Sara GYOZALYAN** (A.B. Nalbandyan Institute of Chemical Physics, Armenia), L. Avanesyan, H. Gharagulyan
Electro-Optical Performance of 5CB/Synthesys-Dependent Graphene Oxide Liquid Crystalline Nanocomposites
- 11) **Meri H. HAYRAPETYAN** (Laboratory of Advanced Functional Materials, Yerevan State University, Armenia), A.V. Margaryan, M.L. Sargsyan, D.A. Karakhanyan, K.S. Novoselov, D.A. Ghazaryan
Exploring hyperbolic and chiral photonic properties of in-plane anisotropic van der Waals MoOCl₂

12) **Vahe HOVHANNISYAN** (A.B. Nalbandyan Institute of Chemical Physics, Armenia), H. Khachatryan, A. Asatryan

Optimization strategies for successful HTL layer fabrication

13) **Svitlana S. HRANKINA** (Institute for Scintillation Materials of NAS of Ukraine Kharkiv, Ukraine), O.M. Samoilo, I.I. Grankina, L.N. Lisetski, S.L. Yefimova, O.V. Sorokin

The Effect of Liquid-Crystal Matrix Dispersion on the properties of J-Aggregates of Cyanine Dyes

14) **Davit. A. KARAKHANYAN** (Laboratory of Advanced Functional Materials, Yerevan State University, Armenia), A.V. Margaryan, M.L. Sargsyan, I.I. Piyanzina, M.H. Hayrapetyan, M.A. Levonyan, H.A. Zakaryan, K.S. Novoselov, D.A. Ghazaryan

Van der Waals technologies for designing ultrathin plate-type beam splitters

15) **Ani KHACHATRYAN** (Advanced Functional Materials Laboratory, Yerevan State University, Armenia), A. Margaryan, M. Sargsyan, H. Khachatrian, D.A. Ghazaryan

Automatic parametrization of transition metal dichalcogenides using image analysis with artificial intelligence

16) **Maria A. LEVONYAN** (Laboratory of Advanced Functional Materials, Yerevan State University, Armenia), A.V. Margaryan, M.L. Sargsyan, D.A. Karakhanyan, Mery. H. Hayrapetyan, K.S. Novoselov, D.A. Ghazaryan

Probing the temperature dependence of complex dielectric function of super mossian transition metal dichalcogenide ternary compounds

17) **Mykyta LUPAN** (Institute for Scintillation Materials NAS of Ukraine, Kharkiv, Ukraine), G. Grygorova, P. Maksimchuk, V. Seminko, S. Yefimova

Synthesis, structural characterization, and prooxidant properties of iron-doped cerium oxide nanoparticles

18) **Pavel MAKSIMCHUK** (Institute for Scintillation Materials NAS of Ukraine, Kharkiv, Ukraine), O. Ivanov, V. Seminko, M. Lupan, G. Grygorova, O. Samoilo, A. Onishchenko, V. Klochkov, S. Yefimova

Water-Derived Radical Generation by (Gd,Y)VO₄:Eu³⁺ NCs Triggered by UV Pre-Irradiation

19) **Astghik MARGARYAN** (Institute of Applied Problems of Physics, Armenia), A. Soghomonyan, O. Yeritsyan, S. Movsisyan, V. Mirzoyan, R. Soghomonyan,

Fraunhofer Diffraction at a Slit Between Two Media with Different Gyrotropy Parameters

20) **Gayane MARGARYAN** (Institute of Applied Problems of Physics, Armenia), L. Grigoryan, A. Saharian, A. Mnatsakanyan, J. Markosyan, H. Harutyunyan, H. Khachatryan

Analysis of Radiation Generated by a Charge Passing a Dielectric Ball via Multiple Modeling Techniques

21) **Karine MARGARYAN** (Institute of Physics, Yerevan State University, Armenia), G. Gevorgyan, R. Hakobyan

Thermal Dependence of Elastic properties of Acrylate-based Liquid Crystal Elastomers with planar alignment

22) **Valentina MEHRABYAN** (A.B. Nalbandyan Institute of Chemical Physics, Armenia), M. Zhezhu, O. Ivanov, A. Vasil'ev

Optoelectronic and Thermoelectric Properties of a Bi-Sb-Te-Se-S High-Entropy Topological Insulator

23) Vahe MKRTCHYAN (A.B. Nalbandyan Institute of Chemical Physics, Armenia), L. Avanesyan, S. Gyoalyan, H. Gharagulyan

Data-Driven Insights into Liquid Crystalline Phase Formation of Synthesis-Dependent Graphene Oxide

24) Marina MOVSISYAN (Institute for Physical Research, Armenia), S. Shmavonyan, A. Khanbekyan, V. Tuchin, A. Papoyan

A method of spatial scanning of modulated laser radiation for outline imaging of interphalangeal joints

25) Yevhen NEUHODOV (Institute for Scintillation Materials of NAS of Ukraine Kharkiv, Ukraine), P. Maksimchuk, G. Grygorova, A. Onishchenko, N. Kavok, G. Dudetskaya, Yu. Kot, S. Yefimova, V. Seminko

Boosting hydrogen peroxide sensing of CeO_{2-x} nanoparticles via FBS-enhanced Ce³⁺ emission

26) Svetlana PASHAYAN (Institute for Physical Research, Armenia), N.V. Tarasenko, V.G. Kornev, V.M. Anischchik, S.V. Zlotski

Effect of transition metals doping on the properties of copper oxides-based nanostructures

27) Polina PISKLOVA (Institute for Scintillation Materials NAS of Ukraine, Kharkiv, Ukraine), O. Sorokin, I. Bespalova, S. Yefimova, J.-N. Heidkamp, T. Korn, S. Lochbrunner

Fluorescence Enhancement in Cyanine Dye Assemblies: Impact of Plasmonic Nanoparticles

28) Hasmik ROSTOMYAN (A.I. Alan National Science Laboratory, Armenia), S. Abrahamyan, S. Zhamkochyana, A. Margaryan, H. Elbakyan, A. Kakoyan, A. Papyan, A. Safaryan, J. Annand, K. Livingston, R. Montgomery, S.N. Nakamura, P. Achenbach, J. Pochodzalla, D.L. Balabanski, V. Sharyy, D. Yvon, A. Aprahamian, V. Kakoyan

Development of a Compact Radio Frequency Photomultiplier Tube

29) Adrine SAHAKYAN (A.B. Nalbandyan Institute of Chemical Physics, Armenia), H. Gharagulyan

Optostructural Properties of Functionalized Liquid Crystalline Graphene Oxide Films: Role of Synthesis Method

30) Oleksandr SAMOILOV (Institute for Scintillation Materials NAS of Ukraine, Kharkiv, Ukraine), P. Maksimchuk, V. Seminko, M. Lupan, G. Grygorova, A. Onishchenko, V. Klochkov, S. Yefimova

Manganese Oxide Nanocrystals as Efficient Nanozymes for Catalytic Hydrogen Peroxide Degradation

31) Vladyslav SEMINKO (Institute for Scintillation Materials NAS of Ukraine, Kharkiv, Ukraine; V.N. Karazin Kharkiv National University, Kharkiv, Ukraine), N. Kavok, G. Dudetskaya, P. Maksimchuk, Y. Kot, O. Sedyh, V. Klochkov, S. Yefimova

Ascorbic acid - triggered anticancer activity of CeO_{2-x} and GdYVO₄:Eu³⁺ NPs-based supramolecular complexes

32) Ruzan SUKIASYAN (Institute of Applied Problems of Physics, Armenia), A.A. Danghyan, R.A. Apreyan, A.K. Atanesyan,

Synthesis of Some Amino Acid Levulinate Crystals Using the SERS Method and Their Study