

Theme 1

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| İLKNUR ERUÇAR FINDIKÇI | THM1.1 | BioMOFs for Energy Applications: From an Atomic Point of View |
| Aydın Özcan | THM1.2 | Analyzing Force Field Effects on Gas Separation Performances of ZIFs |
| Khalil Al-hatab | THM1.3 | Influence of Pre-Heat Treatments on the Cyclic Oxidation Behavior of IN 617 Superalloy |
| Irmak Karaduman | THM1.4 | THE TEMPERATURE DEPENDENT TRANSPORT MECHANISMS OF NANOPOROUS CLINOPTILOLITE |
| Nihan Yönet-Tanyeri | THM1.5 | Surface-Directed Nanoparticle Formation in Polymer Thin Films |
| Morteza Enhessari | THM1.6 | Synthesis, characterization and optical band gap of LiMn2O4 nanoparticles |
| Mehmet Okan Erdal | THM1.7 | Thermoelectric properties of sintered and unsintered NaCo2O4 nanocrystal: A comparison. |
| Rumeysa Tekin | THM1.8 | Encapsulation of Fragrance Molecules within Nanoporous Zeolite X |
| FATMA GÖDE | THM1.9 | Preparation and characterization of crystalline lead sulfide thin films produced by SILAR method: Influence of pH in the cationic precursor |
| Mehmet Emin DİKEN | THM1.10 | Biodegradable Poly(acrylic acid)(PAA)/Hydroxyapatite(nHAp)/Organo-Modified Hydroxyapatite(o-nHAp) Bionanocomposites: Preparation, Characterization, Antimicrobial activity and Biocompatibility |
| Mohammad Mahdi Abolhasani | THM1.11 | Investigating effects of processing condition on morphology and crystallinity of PVDF electrospun nanofibers |
| Arif Demir | THM1.12 | Depth and Element Analysis of Thin Films by Laser Induced Breakdown Spectroscopy (LIBS) |
| Abbas Jafarizad | THM1.13 | Synthesis of Gold Nanoparticles by Wet Chemical Reduction Method and investigating of the reducing agent and pH effect on the particle size of nanoparticles |
| Salih Zeki Yıldız | THM1.14 | Preparation and characterization of highly fluorescence TGA-CdTe quantum dot-hyamine additive composite |
| Reza Alizadeh | THM1.15 | Synthesis and physicochemical characterization of Nano-Molybdenum Carbide by Methanothermal method |
| Semran Ipek | THM1.16 | Computational Engineering of Formate Dehydrogenase: From Catalytic Versatility to Coenzyme Specificity |
| Cengiz Bagci | THM1.17 | Effect of Fe Addition on the Magnetic Properties of α -Si3N4 Ceramic Material |
| Civan Avcı | THM1.18 | Synthesis and Characterization of Mesoporous Metal Titanate Thin Films Using MASA Approach |
| Zeynep BAZ | THM1.19 | STRUCTURE AND PROPERTIES OF CARBON SEMICONDUCTOR THIN FILMS PRODUCED BY ECR MW PLASMA SYSTEM |
| Tugay Üstün | THM1.20 | Catalytic Activity of PAN/MWCNT Nanofiber |
| Münevver SÖKMEN | THM1.21 | Photoreduction of Cr(VI) in Aqueous Suspension Using Cu Phthalocyanine Modified Titanium Dioxide Nanoparticles |
| Salah Khanahmadzadeh | THM1.22 | Fabrication and physical Properties of MnTiO3/polyaniline Nanocomposites |

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| Amir Farzaneh | THM1.23 | Study of tribological properties of Ni-P-PCTFE nanocomposite coatings |
| Alp Yürüm | THM1.24 | Deposition of Porous Iron Oxide Nanoparticles on Activated Carbon by Microwave Synthesis and Removal of Arsenic (V) from Water |
| Tugrul Cetinkaya | THM1.25 | High Performance Si-Carbon Nanocomposite Electrodes for Lithium Ion Batteries |
| Uğursoy Olgun | THM1.26 | Formation, band gap energy and electrical conductivity of ZnO nanoparticles after roll-milling |
| Sibel Ataol | THM1.27 | The Synthesis, Characterization and Bioactivity Study of Nano-sized Calcium Phosphates by Flame Spray Pyrolysis |
| Morteza Enhessari | THM1.28 | Synthesis, characterization and optical band gap of NiCr ₂ O ₄ nanoparticles |
| Cengiz Bagci | THM1.29 | Synthesis and characterization of LiFePO ₄ /C powders via comparative sol-gel and mechanochemical activation methods |
| Ahmet GÜRSES | THM1.30 | The electro kinetic and spectroscopic examination of the sorption mechanism of an anionic textile dye (RBY 3GL) onto the powdered activated carbon (PAC) |
| Melike Kaya | THM1.31 | Effect of Particle Size on Magnetic and Magnetocaloric Properties of Ni(Mn,Cu)In nano powders |
| Rabah Khalil | THM1.32 | The role of surfactants head groups in the formation of self-assembled supramolecular gel |
| Hasan Ulus | THM1.33 | A facile and large scale synthesis of tungsten oxide nanocubes structure and catalytic activity of Rhodamine B |
| Mehbare Doğrusöz | THM1.34 | Nanostructured Cathode Material Synthesized by Sol Gel Method for Li-ion Batteries |
| Azadeh Azadbakht | THM1.35 | High sensitivity amperometric and voltammetric determination of biomolecules with gold nanoparticle gold electrode modified with penicillamine - ZnSe quantum dot |
| Zohreh Mahmoudi | THM1.36 | A Novel Carbon Nanotube Field Effect Transistor with Double Stepwise Doping Channel |
| Maryam Ghodrati | THM1.37 | A New Carbon Nanotube Field Effect Transistor with Stepwise Doping Lightly Doped Drain and Source Regions |
| Seçil Sevim | THM1.38 | Development of Colloidal Quaternary Alloyed Zn _x Cd _{1-x} SySe _{1-y} Nanocrystals and Tuning Their Optical Properties by Particle Size and Alloy Composition |
| Sefik Suzer | THM1.39 | XPS for Charge-Sensitive Analyses of Nano-Structures |
| Ömer Mermer | THM1.40 | Effect of various transition metals on the structural, optical and photocatalytic properties of TiO ₂ thin films. |
| Nazlı Ceren Dağyar | THM1.41 | Determination Of Diffusion Coefficients For Cross-Linking Treatment with Different Solutions |
| Hossein Peyman | THM1.42 | Fabrication of DNA-based electrochemical biosensor using chitosan-carbon nanotubes composite film for herbicide chloridazone |

Boron Session

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| Beyhan Sayin | THM1.43 | National Boron Research Institute (BOREN) and Its Activities |
| Fikrettin Sahin | THM1.44 | Effect and Role of Boron Compounds in Biological Systems |
| Burcu Saner Okan | THM1.45 | Boron compounds as antibacterial agents and their applications |
| Ayşegül Doğan | THM1.46 | Antibacterial and cytotoxic properties of boron containing dental composite |
| Yosef Badali | THM1.47 | Graphene and Boron Doped Polyvinylidene Fluoride Piezoelectric Materials |

Theme 2

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| Ece Bal | THM2.1 | Hydrothermal Growth of TiO ₂ Nanorod for Gas Sensing |
| Orhan Şişman | THM2.2 | Modifying Zinc Oxide Nanostructures with Cr to Enhance Gas Sensing Properties |
| Nesibe Dogan | THM2.3 | Waterborne Polyurethane/Halloysite Nanocomposites: Synthesis, Characterization and Applications |
| Mehmet ARAS | THM2.4 | Combined Hybrid Functional and DFT+U Calculations for ZnO Nanowires |
| İlknur Altın | THM2.5 | Structural, Optical and Photocatalytic Properties of Cu-ZnO and ZnO Nanorods |
| Ezgi Dunder Tekkaya | THM2.6 | The Effect of the Reaction Parameters on Carbon Nanotube Synthesis on Cobalt Catalyst |
| Ozge Cavuslar | THM2.7 | Fluorescent Labeling of Carbon Nanotubes |
| Cansu Noberi | THM2.8 | Hydrothermally Synthesized Ag Containing TiO ₂ Nanotubes and Their coatings onto 3-D Metallic Based Filters |
| Morteza Asghari | THM2.9 | Gas separation properties of PU-NaX nanocomposite membranes |
| Onur Alev | THM2.10 | Fabrication of Co loaded TiO ₂ nanotubes for gas sensing |

Theme 4

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| Ramazan Ozturk | THM4.1 | siRNA DELIVERY BY GOLD NANOVEHICLES FOR GENE SILENCING |
| Berke Bilgenur Kandemir | THM4.2 | PEI – Starch Nanospheres for siRNA based Gene Silencing Therapy for Cancer |
| Senem YETGİN | THM4.3 | Kinetics of DNA Adsorption onto Nano Sized Hydroxyapatite |
| Halime Serinçay | THM4.4 | Biocompatible polymer based nanofiber wound dressing materials |
| Zineb BENZAIT | THM4.5 | Antimicrobial nHA Coating for Traumatic Bone Injuries |
| Necla Sarigil | THM4.6 | Zinc and Aloe Vera Doped Biocompatible Polymer Based Antimicrobial Nanofibrous Food Packaging Materials |
| Yasemin Yuksel Durmaz | THM4.7 | Development of Degradable, pH-Sensitive, Star Vectors for Cytoplasmic Delivery of Nucleic Acids |
| Elcin Yenigul Tulunay | THM4.8 | Magnetite Nanoparticles as Drug Delivery Vehicles |
| Evrin TUĞAY | THM4.9 | Biosynthesis of Silver Nanoparticles by Bacillus pasteurii ovit Bacterial Strain |

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| Yıldız Bal | THM4.10 | Synthesizing Of Olive Leaf Extract Loaded Calcium Alginate Chitosan Microcapsules And Investigation Of Their Anticancer Activity On Lung Cancer Cells |
| BNNT Session | | |
| Cetin Bozkurt | THM4.11 | hBNs |
| Saban Kalay | THM4.12 | Synthesis of BNNTs |
| Zehra Yilmaz | THM4.13 | Modification of BNNTs |
| Tolga Akiner | THM4.14 | Prediction of Thermal Conductivity of Multilayer Hexagonal Boron Nitride Using Equilibrium Molecular Dynamics |
| Yuda Yurum | THM4.15 | Synthesis of BNNTs |
| Emine Kazanc | THM4.16 | BORON NITRIDE NANOTUBES ENHANCE PROPERTIES OF CHITOSAN-BASED SCAFFOLDS |
| Ozlem Sen | THM4.17 | The Cellular Uptake of Boron Nitride Nanotubes |
| Mesil Emanet | THM4.18 | Cytotoxicity and Genotoxicity of Boron Nitride Nanotubes |

Theme 5

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| Göksel Durkaya | THM5.1 | Nanoadhesion characterization for future semiconductor manufacturing technologies |
| Umut Sarac | THM5.2 | Effect of Microstructure and Surface morphology on Magnetic Properties of Electrodeposited Ni-Co Thin Films with Different Compositions |
| Erdem Demirci | THM5.3 | Temperature-dependent Exchange Bias Properties of Pt/Co/Pt/Cr2O3 Thin Film |
| Çetin Kılıç | THM5.4 | Dispersion-Corrected Density-Functional Calculations for Metal Tellurohalides |
| Salih Akbulut | THM5.5 | Effect of Growth Parameters on the Perpendicular Magnetic Anisotropy of Co/Ni Multilayer Films |
| Halit Çavuşoğlu | THM5.6 | Investigation of the Line Broadening Mechanisms on the Emission Spectrum of the Gold Nano-Spheres in Fetal Bovine Serum and Ultrapure Water |
| Ali Naderi | THM5.7 | Numerical Simulation Study of Cut Off Frequency in Different Structures of Carbon Nanotube Field Effect Transistors |
| Hamida Darwish | THM5.8 | Effect of Nanoparticle doping on CO sensing of ferrocene conjugated polypyrrole conducting polymers |

Theme 6

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| Melike Kaya | THM6.1 | Effect of Heat Treatment on Magnetic and Magnetocaloric Properties of Nanostructured Ni(Cu,Mn)In Ribbons |
| Ümran Kurtan | THM6.2 | Synthesis of Fe3O4@APTES@PAMAM-Ag magnetic nanocatalyst as highly active and recyclable for catalytic reduction of 4-nitrophenol |
| Emine Gökçe Polat | THM6.3 | The Examination of Surface Anisotropy in Ferromagnetic Resonance Measurement |
| M. İbrahim COŞKUN | THM6.4 | SYNTHESIS AND CHARACTERIZATION OF MAGNETICALLY CAPTURED FERRO FLUID NANOPARTICLES |

Theme 7

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| Zahra Gohari | THM7.1 | Characterization of Graphene oxide with various degrees of oxidation synthesized by Hummers approach |
| Hasan YOLCU | THM7.2 | Preparation of Superhydrophobic Graphene Oxide Surfaces |
| Erhan ZOR | THM7.3 | Reduced Graphene oxide/ α -cyclodextrin Hybrid for Detection of Methionine: Electrochemical, Fluorometric and Computational study |
| Dilek Yıldız | THM7.4 | Investigation of Electronic and Morphological Properties of Graphene/HOPG System and Corrugation Variation of Moiré Patterns |
| Pierre Graves | THM7.5 | Characterization of carbon nanomaterials by Raman Microscopy |
| Recep Zan | THM7.6 | Electron Microscopy of Graphene and other 2Ds |
| Vildan Bayram | THM7.7 | Graphene as Catalyst Support in PEM Fuel Cell |
| Ayşe Berkdemir | THM7.8 | Layer Identification with Raman Spectroscopy of CVD Grown WS ₂ |
| Mansoure Shahrokh | THM7.9 | Chemical anisotropy etching in the copper-nickel nanoalloy |

Theme 9

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| Mustafa Demirtaş | THM9.1 | Optimization of ALD grown Al ₂ O ₃ Host Material for Use in Integrated Optical Circuits |
| Mücahit YILMAZ | THM9.2 | A new Electro-Optical Material : Ge Nanostructures Embedded in SiO ₂ Matrix |
| Alpan Bek | THM9.3 | Super-Efficient Nonlinear Conversion of Light by Plasmonic-Quantum Hybrid Systems via Fano Resonance |
| Kenan Cicek | THM9.4 | Back Reflection Effect on Purity of Modes from the Integrated Vortex Beam Emitter |
| Gozde Tutuncuoglu | THM9.5 | III-V Nanowire-Based Heterostructures Grown with Molecular Beam Epitaxy (MBE) |
| Sabri Alkış | THM9.6 | A NEAR INFRARED RANGE PHOTODETECTOR BASED ON INDIUM NITRIDE NANOCRYSTALS OBTAINED THROUGH LASER ABLATION |
| Aziz KOLKIRAN | THM9.7 | Beyond the Diffraction Limit Using the Near-field of Quantum Emitters |
| Humeyra Caglayan | THM9.8 | Metamaterial Inspired Optical Nano-Circuits |
| Bayram GÜNDÜZ | THM9.9 | Surface morphology properties of the liquid-crystalline polymer poly[(9,9-dioctylfluorenyl-2,7-diyl)-co-bithiophene] (F8T2) film and the optical properties of the solutions of the F8T2 polymer for different solvents |
| Alev KIZILBULUT | THM9.10 | CHARACTERIZATION OF THE MOCVD GROWN SINGLE CRYSTAL P-TYPE AND N-TYPE GaInP on GaAs |
| Melek Kiristi | THM9.11 | All Solid State Electrochromic Devices Made by RF Plasma Doped Hybrid Tungsten Oxides |
| Zeynep Dermircioğlu | THM9.12 | Optimization of a-Si:H thin film deposited on ITO coated flexible substrate |
| Hisham Nasser | THM9.13 | Aluminum Induced Nanotexturing of Glass Superstrate for Enhanced Photo-Response of a-Si:H Thin Film |

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| Nurten Sahan | THM9.14 | Investigating Thermal Properties of Paraffin-Nano Magnetite Composite for Thermal Energy Storage Applications |
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Theme 13

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| Christian von Borczyskowski | THM13.1 | Diffusion of Single Ag Particles in Ultrathin Nanostructured Water Films on SiO ₂ |
| Beybin İlhan | THM13.2 | Thermal Conductivity of Water, Ethylene Glycol and Ethylene Glycol –Water Mixture Based hBN Nanofluids |
| Kerim Yapıcı | THM13.3 | Rheological characterization of non-Newtonian based multiwalled carbon nanotubes nanofluids |
| Melikhan Tanyeri | THM13.4 | Confinement and Manipulation of Single Nanoparticles in Free Solution using a Hydrodynamic Trap |
| Cem Levent Altan | THM13.5 | Deterioration in effective thermal conductivity of aqueous magnetic nanofluids |

Theme 14

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| Andrzej Budkowski | THM14.1 | Surface characterization of multi-step methods using biotin-streptavidin system to form DNA arrays |
| Omer Aydin | THM14.2 | Development of pH- Sensitive Micelles for Drug Delivery to Advanced Prostate Cancer |
| Nihan Yönet-Tanyeri | THM14.3 | Spatiotemporally Controlled Molecular Release from Micropatterned Hydrogel |
| SEVDA MERT | THM14.4 | Surface-Enhanced Raman Scattering Based Detection of Cancerous Renal Cells |
| Sevgi Kilic Ozdemir | THM14.5 | Microbubbles as Ultrasound Contrast Agents |
| Emir Yasun | THM14.6 | Facile Isolation and Detection of Colon Cancer Biomarker Protein with Aptamer-Conjugated Silver Microspheres |
| Hale Unal | THM14.7 | Core-shell hybrid nanocapsules for oral delivery of Camptothecin: Formulation development, in vitro and in vivo evaluation |
| Pınar Akkus | THM14.8 | Doxorubicin Delivery with DNA-Based Nanocarrier System |
| Hilal Özdemir | THM14.9 | Exchange of Temperature and pH with Different Solutions During Corneal Cross-Linking |
| Erdinc Sezgin | THM14.10 | Optical nanoscopy to investigate cellular dynamics |
| Ugur Tamer | THM14.11 | The high product yield of hybrid nanoparticle and rationale biomolecule immobilization for sub-femtomolar SERS detection |
| Mehmet Kahraman | THM14.12 | Fabrication of Flexible and Tunable Plasmonic Nanostructures for SERS |
| Ertug Avcı | THM14.13 | Influence of Protein Size on Surface-enhanced Raman Scattering (SERS) Spectra in Binary Protein Mixtures |
| Şebnem Açıkbaş | THM14.14 | Herbicide Bio-detection by Raman Spectroscopy |
| Fatih Buyukserin | THM14.15 | The Proliferation of Neurons on Nanoporous Alumina-Based Biomaterials |
| Hasan İLHAN | THM14.16 | Conducting Polymer Surfaces for Electrochemical Acetaminophen Detection |

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| Behzad Nasseri | THM14.17 | Antenna Modulus Radiofrequency Exposures on Gold/Magnetic Nanoparticles Hyperthermia with Effects on MCF-7 and L-929 Cell Lines |
| Filiz Kuralay | THM14.18 | The Use of Nanotechnology for Biomedical Applications |
| SEDA NUR TOPKAYA | THM14.19 | Mismatch and Hybridization Detection with Electrochemical DNA Biosensors in Real Samples |
| Kaan Kececi | THM14.20 | Preparation and Applications of Resistive-Pulse Sensors to Detect Biomolecules |
| Necmettin Kilinc | THM14.21 | Synthesis of ZnO nanorods / P3HT Hybrid on MEMS cantilever for VOC sensing |
| Nesrin Horzum | THM14.22 | VOCs sensor based on metal oxide nanofibrous membrane/QCM system prepared by electrospinning |
| Hamideh Roushanfekr | THM14.23 | Immobilized NAD ⁺ onto gold electrode modified with DNA and polyethyleneimine-wrapped carbon nanotubes/in situ formed gold nanoparticles functionalised nanocomposite as a novel bioelectrochemical sensing platform |

Theme 15

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| Yağmur Ateşcan | THM15.1 | A Multiscale Approach for Investigation of CNT Waviness Effect on PNCs |
| Hasan Ulus | THM15.2 | Flexural and Shear Properties of Superior BNNP-MWCNT/Epoxy Hybrid Nanocomposites |
| M. İbrahim COŞKUN | THM15.3 | EFFECT OF pH ON ELECTRODEPOSITION OF HYDROXYAPATITE LAYER ON CoCrMo BIOMATERIALS |
| Uğursoy Olgun | THM15.4 | Preparation and Antimicrobial Activity of Nano-Ag-Silica in Polycaprolactone Composites |
| Umit Ecem Yarar | THM15.5 | Mechanical and Thermal Properties of Magnetic Nanocomposites |
| Merve Seyhan | THM15.6 | Enhanced Thermomechanical Properties and Photothermal Heating of Au/PEO and Ag/PEO Nanocomposites |
| Mehmet Emin DİKEN | THM15.7 | Biodegradable Poly(acrylic acid)(PAA)/Hydroxyapatite(nHAp)/Organo-Modified Hydroxyapatite(o-nHAp) Bionanocomposites: Preparation, Characterization, Antimicrobial activity and Biocompatibility |
| Yusuf Yusufoglu | THM15.8 | Development and Characterization of Nano Porous Materials for Vacuum Insulation Panels (VIPs) |

Theme 16

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| Muge Alsarın | THM16.1 | HISTOPATHOLOGICAL EFFECTS OF TITANIUM DIOXIDE (TiO ₂) NANOPARTICLE ON ZEBRAFISH (Danio rerio) GILLS |
| Kenan SENTURK | THM16.2 | Antibacterial Surface Modification for Medical Purposes by Magnetron Sputtering and Plasma Torch Systems |
| Yasin Akgul | THM16.3 | Fabrication of Thermoplastic Polyurethane/Propolis Composite Nanofibrous Membrane for Wound Dressing Applications |
| Sebnem Duzyer | THM16.4 | Effect of Plasma Modification of PET Electrospun Fibers on Cell Proliferation |
| I YUCEL OZBEK | THM16.5 | New Silicon Based Multisite Microelectrode Fabrication for Neurotransmitter Concentration Detection |
| ÖNDER SÜNETCİ | THM16.6 | Corrosion Protection Reliability of Electronic Boards Using Nanoparticle Containing Coatings |

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| Çağrı YILMAZ | THM16.7 | INVESTIGATION OF MECHANICAL BEHAVIOR OF PARTICULATE REINFORCED TITANIUM MATRIX COMPOSITE |
| ESRA PAMPAL | THM16.8 | Investigation of Mechanical Properties of Single Wall Containing PAN Composite Nanofiber |
| Kutay Berk Sezginel | THM16.9 | Prediction of Methane Storage Performance of Metal Organic Frameworks |
| M. İbrahim COŞKUN | THM16.10 | NANO-TUBULAR HYDROXYPATITE FORMATION IN ACIDIC ELECTROLYTE BY ELECTROCHEMICAL DEPOSITION |
| Mehmet Karaman | THM16.11 | Poly-Si thin films formed on glass substrate coated by different buffer layer content |
| Mehmet Karaman | THM16.12 | Formation of n-type and p-type polycrystalline silicon thin films by solid phase epitaxy |
| Salar H. Sedani | THM16.13 | Fabrication & doping of thin film p-type Si thin films fabricated by e-beam evaporation on glass substrate |
| Süleyman KAHRAMAN | THM16.14 | Sol gel-processed Cu ₂ ZnSnS ₄ solar absorbers: effects of sulfur pressure |
| Turgay Çoruhlu | THM16.15 | Synthesis and characterization of ITO-Titanium-ITO trilayers prepared by DC magnetron sputtering |

Theme 17

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| Carlos Fito | THM17.1 | Integrated Strategies to mitigate the risk of ENMs: NanoMICEX Approach |
| Martie VanTongeren | THM17.2 | Occupational exposure to nanomaterials |
| Mohammad Charehsaz | THM17.3 | Developmental toxicity of Silver Nanoparticles |
| Manolya Hatipoglu | THM17.4 | A Safety by Design Approach to Reduce the Cytotoxicity of Silver Nanoparticles |
| Javed H. Niazi | THM17.5 | Quantum dot decorated yeast cells as smart living cell fluorescent switches |
| Seda Keleştemur | THM17.6 | Influence of protein modification of ZnO nanoparticles on cellular toxicity |
| Mine Altunbek | THM17.7 | A Safety by Design Approach for Zinc oxide and Silver Nanoparticles to Reduce Their Toxicity |
| Yeşim Ozkan | THM17.8 | Effects of aqueous suspensions of ZnO-TiO composite on Artemia Salina: determinant of Acute toxic effects, Comparison of Accumulation Dependent to Concentration and Change of the Size |
| Oktaş Aslan | THM17.9 | Preservice Science Teachers' Awareness of Nanoscience and Nanotechnology |