

ORAL PRESENTATION | 12 NOV. | AVICENNA HALL

08:00 – 09:00	Registration
09:00 – 10:15	Opening

10:15 – 11:00 | Break – Exhibition Opening



Nanoelectronics and Nanomaterials for Energy

11:00 – 11:25	Jang-Kyo Kim	Electrospun Carbon Nanofiber Composites for High Performance Electrodes in Rechargeable Batteries
11:25 – 11:40	Elham Kamali Heidari	Synthesis of Three-dimensional Nanostructured Electrode Materials for High Performance Supercapacitors
11:40 – 11:55	Kian Yousefipour	Hydrothermal Synthesis of NiMoO ₄ /Reduced Graphene Oxide Nanocomposites: An Electrode Material for Supercapacitors
11:55 – 12:10	Farzaneh Arabpour Roghabadi	Stability Loss of Organic-inorganic Hybrid Perovskite Solar Cells due to Ion Migration
12:10 – 12:25	Arvin Attari Navab	Hydrothermal Synthesis of TiO ₂ Nanorod for Using as an Electron Transport Material In Perovskite Solar Cells
12:25 – 12:40	Mohammad Mahdi Mehrnegar	Surface Acoustic Wave (SAW) Assisted Excitation of Surface Plasmons in Graphene

12:40 – 14:00 | Lunch



Ultrafine Grained and Nanostructured Materials

14:00 – 14:25	Terence G. Langdon	Using Severe Plastic Deformation to Process Exceptionally Strong Metal Matrix Composites
14:25 – 14:50	Carlos Garcia-Mateo	Implementing Nanostructure Concept into Bainitic Steels
14:50 – 15:05	Farzad Khodabakhshi	Accumulative Fold-forging (AFF) as a Novel Severe Plastic Deformation Process to Fabricate a High Strength Ultra-fine Grained Layered Aluminum Alloy Structure
15:05 – 15:20	Mohammad Jahazi	Effect of Plastic Deformation on the Bainitic Transformation of a Medium C-Si Rich Steel
15:20 – 15:35	Ebad Bagherpour	Strain Reversal in Simple Shear Extrusion (SSE) Processing: Microstructure Investigations and Mechanical Properties

15:35 – 16:15 | Break



Nanobiomaterials

16:15 – 16:30	Razieh Kiani Harchegani	Nanostructured Calcium Zirconium Silicate (Ca ₃ ZrSi ₂ O ₉) Bioceramic for Bone Tissue Engineering: An In Vitro/In Vivo Study
16:30 – 16:45	Monireh Kouhi	Preparation and Characterization of Biohybrid Poly (3-Hydroxybutyrate-Co-3-Hydroxyvalerate) Based Nanofibrous Scaffolds
16:45 – 17:00	Mahtab Ghasemi Toudeshkchoie	Diameter Size Optimization of PLGA Nanocarriers Based on 5-Fluorouracil Generating by Microfluidic Method
17:00 – 17:15	Maryam Mounesan	Extended Release Eucalyptus from Poly (acrylonitrile) Electro Spun Mats for Breathing Mask Applications

ORAL PRESENTATION | 12 NOV. | PERSIAN GULF HALL

08:00 – 09:00	Registration
09:00 – 10:15	Opening

10:15 – 11:00 | Break – Exhibition Opening



Ultrafine Grained and Nanostructured Materials

11:00 – 11:25	Hiromi Miura	Enhanced Grain Fragmentation by Mechanical Twinning and the Specific Properties of Hetero-Nano Structure of Cu-Al Alloys
11:25 – 11:40	Ahmad Bahmani	Mechanical Properties and Corrosion Behavior of Magnesium Alloys Processed by Multi-Directional Forging (MDF)
11:40 – 11:55	Saeed Shabestari	Grain Refinement and Formation of Ultrafine Grained Structure in a Metallic Glass Reinforced Aluminum Matrix Composite through Equal Channel Angular Pressing (ECAP)
11:55 – 12:10	Rahim Jafari	Effect of Q&P Heat Treatment on Fine Microstructure and Mechanical Properties of a Low-alloy Medium-carbon Steel
12:10 – 12:25	Behzad Parvaresh	Microstructure of Steel Samples Manufactured by Wire-arc Additive Manufacturing in the Presence of Inter-pass Cold Working
12:25 – 12:40	Donya Ahmadvani	Effect of High Pressure Torsion on Microstructure, Mechanical Properties and Corrosion Resistance of Pure As-cast Mg

12:40 – 14:00 | Lunch



Nanomaterials' Synthesis

14:00 – 14:25	Seokwoo Jeon	3D Nanostructured Interface in Metal or Ceramic Composites
14:25 – 14:40	Sayed Khatiboleslam Sadrnezhad	Growth of TiO ₂ Branched Nanorod Arrays on Transparent Conducting Substrate
14:40 – 14:55	Somayeh Ostovar	Synthesis a Novel Green Nano Magnetite Functionalized with Sulfonamide, Characterization and Efficient in Click Reaction
14:55 – 15:10	Pejman Monazzam	Effect of Cobalt Substitution on the Structure and Photocatalytic Activity of TiO ₂ under Visible Light
15:10 – 15:25	Amir Masoud Badkoobehhezaveh	Electrophoretic Deposition of Cu ₂ ZnSn(S _{0.5} Se _{0.5}) ₄ Films Using Solvothermal Synthesized Nanoparticles

15:35 – 16:15 | Break




Hybrid Materials and Nanocomposites

16:15 – 16:40	Manoj Gupta	The Promise of Magnesium Nanocomposites in Engineering and Biomedical Applications
16:40 – 16:55	Soheil Mahdavi	Effect of Reinforcing Particles Size on Characteristics and Hardness of Co/Al ₂ O ₃ Electrodeposits
16:55 – 17:10	Ghazale Asghari Sarabi	Align and Random Electrospun Mat Of PEDOT:PSS And PEDOT:PSS/RGO
17:10 – 17:25	Elham Zamani Alavijeh	Fabrication and Mechanical Properties of Aluminum Composite Reinforced with Functionalized Carbon Nanotubes
17:25 – 17:40	Sahar Golmakaniyoon	Effect of Grading Pattern on the Flexural Creep Behavior of Al-SiC Functionally Graded Nanocomposites Produced by Powder Metallurgy

ORAL PRESENTATION | 13 NOV. | AVICENNA HALL

08:00 – 09:00	Registration
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Nanoscale Modeling		
09:00 – 09:25	Mohammad Habibi Parsa	Estimation of Dislocations Density and Distribution of Dislocations during ECAP-conform Process
09:25 – 09:40	Seyed Mahdi Rafiaei	Reflection Modelling and Enhanced Luminescence Properties of Phosphors Coated by Nano-layers Of Silica
09:40 – 09:55	Hossein Alimohammadi	An Investigation to HPT of Copper Disk Using Finite Element Method
09:55 – 10:10	Elham Tahmasebi	Automated Particle Sizing of TEM Images with Particle-based Labeling Algorithm
10:10 – 10:25	Jamal Salehzadeh	Molecular Dynamics Study of Oil Adsorption on the Rock Surface in Presence of Silica Nanoparticles
10:25 – 10:40	Sohrab Behnia	The Quantum Chaos Approach for Studying the Effect of Impurity and External Electric Field on Zigzag Graphene Nanoribbons

10:40 – 11:25 Break	
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Nanoelectronics and Nanomaterials for Energy		
11:25 – 11:40	Mahboobeh Zargazi	Electrophoretic Deposition of Bi_2WO_6 as a Thin Film and its Dynamic Studies
11:40 – 11:55	Mina Naeini	Synthesis and Characterization of $\text{Pr}_2\text{NiO}_{4+\delta}$ via a Combustion Sol-gel Method with Citric Acid as Fuel for IT-SOFC Cathode
11:55 – 12:10	Masoud Payandeh	Annealing-free Synthesis of Ultra-fine Zinc Oxide Nanoparticles for Perovskite LEDs
12:10 – 12:25	Saeid Behaein	Structural and Magnetic Properties of the Nanowires and Nanoparticles of Ba-hexaferrites
12:25 – 12:40	Shamim Shahrokhi	Electrochemical Performance and Stability of LNC-infiltrated $(\text{La},\text{Sr})\text{MnO}_3$ Oxygen Electrode

13:00 – 14:30 Lunch	
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Nanomaterials for Separation and Purification		
14:30 – 14:45	Sotoudeh Sedaghat-Hoor	Modified Graphene Based Adsorbents for Deep Desulfurization of DBT in Model Fuel
14:45 – 15:00	Reza Gharibshahi	Performance Experimental Investigation of Novel Multifunctional Nanohybrids on Enhanced Oil Recovery
15:00 – 15:15	Alireza Hakimian	Adsorptive Removal of Methyl Orange from Aqueous Solution with a Highly Stable Metal-organic Framework (MOF)
15:15 – 15:30	Alireza Gharaee	Photocatalytic Treatment of Synthetic Wastewater Containing 2, 4 Dichlorophenol on $\text{TiO}_2\text{-Cu}_2\text{O}$ Nanocomposite

15:30 – 16:30 Break	
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16:30 – 18:00	Closing
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ORAL PRESENTATION | 13 NOV. | PERSIAN GULF HALL

08:00 – 09:00		Registration
Thin Films and Nano Coatings		
09:00 – 09:25	Flavio Deflorian	Corrosion Resistant Ce-based Conversion Coatings on Aluminum Alloy: Influence of the Deposition Parameters
09:25 – 09:40	Michele Fedel	Effect of Lanthanides Addition on the Corrosion Protection Properties of Thin Sol-gel Coatings on AA1050
09:40 – 09:55	Mohamadreza Etmianfar	Evaluation of Hydroxyapatite/poly(Caprolactone)–Poly(Ethylene Glycol) Bilayer Coatings on Nitinol Superelastic Alloy
09:55 – 10:10	Abd Allah Rahimi	Nano Coating of PANI on Different Forms of Nylon6 Substrates and Comparison of their Adsorption Capacity
10:10 – 10:25	Nastaran Farahbakhsh	Electrodeposition of 3D Cuprous (Cu ₂ O) and Cupric (CuO) Oxide Foam as Highly Active Electrocatalysts for Hydrogen Evolution Reaction
10:25 – 10:40	Amir Hosein Rakhsha	A Hetero-homogeneous Investigation of Chemical Bath Deposited Ga-doped ZnO Nanorods
10:40 – 11:25 Break		
Properties of Nanostructured Materials		
11:25 – 11:50	David San-Martin	Ultrafine Grained Microstructures Obtained by Heat Treatment in Precipitation Hardening Metastable Steels
11:50 – 12:15	Stefano Gialanella	Transmission Electron Microscopy: A Multipurpose Tool for the Characterization of Ultrafine Grained and Nanostructured Materials
12:15 – 12:30	Sepideh Hamedi	Catalytic Evaluation of the Green Synthesized Silver Nanoparticles Using Weed Plant
12:30 – 12:45	Mohammad Azadi	Microstructural and Thermal Properties of Piston Aluminum Alloy Reinforced by Nano-particles
12:45 – 13:00	Amirmostafa Amirjani	Detection of Hg ²⁺ in Aqueous Solutions Based on Surface Plasmon Resonance of Silver Nanoparticles
13:00 – 14:30 Lunch		
Nanomaterials for Sensing		
14:30 – 14:45	Shiva Navazani	Synthesis of SnO ₂ -reduced Graphene Oxide Nano Hybrid for Methane Gas Detection
14:45 – 15:00	Aliakbar Saadati	Enhancing PEC Glucose Sensing of TiO ₂ Nanotubes by Tuning the Length and Annealing Ambient
15:00 – 15:15	Naeimeh-Sadat Peighambardoust	Fabrication of Doped TiO ₂ Nanotube Array Films with Enhanced Photo-catalytic Activity
15:30 – 16:30 Break		
16:30 – 18:00		Closing

POSTER PRESENTATION | 12 NOV. | 15:30 – 17:30

Nanomaterials' Synthesis			
1	Mehdi Salehirad	Grafting of Polymer onto Hydroxyl-functionalized Hexagonal Boron Nitride Nanosheets via Surface-initiated Redox Polymerization: As Thermal-conducting Nanomaterials	1015
2	Maryam Ataefard	Production of Security Printing Toner Based on the Up-conversion Nano-pigment	1024
3	Sobhan Sharafkhani	Tailoring Favor Crystalline Structure via Electrospun PVDF/BaTiO ₃ Nanofibers	1027
4	Hosein Bartar Esfehiani	Synthesis and Sintering of Nano-structured Cordierite by Gel Cast	1119
5	Amir Hossein Keshavarz	Drug Delivery of Modified Polyester Fabric Using B-CD/PAMAM/Ag Nanocomposites	1132
6	Zahra Khosroshahi	Green Reduction of Graphene Oxide by Ascorbic Acid	1180
7	Pejman Monazzam	Improvement of the Photonic Efficiency of TiO ₂ by Cobalt Doping and Decorating on MWCNTs for Degradation of 2,4-dichlorophenol	1187
8	Neda Shirzad Taghanaki	Visible Light-driven Aerogel Cu-TiO ₂ /SiO ₂ Photocatalyst for Degradation of Ethyl Benzene	1216
9	Farzaneh Alirezazadeh	Preparation of Cu ₂ ZnSnS ₄ Nano-crystalline Powder by Mechano-Chemical Method	1255
10	Mohsen Robati	Preparation of High Magnetic Co ₃ O ₄ -CoP ₃ Nanocomposite by a Simple Mechanochemical Reaction	1264
11	Mina Imani	Synthesis and Structural Characterization of Clay Encapsulated MO ₂ (M=Ce, Zr) Nanoparticles by Ultrasound Assisted Method	1268
12	Fatemeh Kazemizadeh	The Effect of Graphitic Target Density on Carbon Nanotube Synthesis by Pulsed Laser Ablation Method	1297
13	Azad Karami	Investigation of Stabilized Foam by Functionalized CNT Nanoparticles and CTAB Surfactant in the Presence of Divalent Salts	1309
14	Fatemeh Abbasi-Kesbi	Solvent Effect on the Synthesis of Copper Nanoparticles by Immersion Deposit Method	1344
15	Marzieh Taheri	Influence of In-situ Synthesis of ZnO/Ag Nanocomposites on Polyester Fabric Using Seidlitzia Rosmarinuser	1359
16	Maryam Kamaei	Preparation and Characterization of Strontium-Fluorapatite Nanopowders by Sol-gel Method	1367
17	Mohammadreza Nematollahi	Facial Single Step Preparation of Copper Ferrite Magnetic Starch Hydrogel Nanocomposites at Low-temperature	1397
18	Bahareh Nozari	Tunable Hydrophobic/Hydrophilic Properties on Polyester Fabric through Facial In-situ Synthesis of Nano SiO ₂ at Room Temperature	1400
19	Behnam Sabzi	A Novel Method for Synthesis of Fe ₃ O ₄ Nanoparticle and its Application in Rheology enhancement of HPAM Aqueous Solution	1453
20	Amir Mohammad Hallajzadeh	Growth of ZnO Films in Sol-gel Electrophoretic Deposition by Different Solvents	1501
21	Ali Bashiri Rezaie	Green Assembled Metallic Copper Nanoparticles for Improve Thermal Conductivity of Fatty Acid PCMs Coated Polyester Fabric	1621
22	Moein Arzi	Generation of NiTi Nanoparticles via High Voltage Spark Discharge in Inert Gas	1626
23	Milad Sabzehparvar	Synthesis and Characterization of Black Amorphous Titanium Oxide Nanoparticles by Spark Discharge Method	1664
24	Monica Joharian	Ultrasound-assisted Fabrication and Structural Characterization of a Novel Nanostructured Coordination Polymer with Lewis Base Sites and Evaluation of Catalytic Properties	1667
25	Farzaneh Afshari Azar	Sonochemical Synthesis and Characterization of Two Cd(II) Based Metal-organic Frameworks as Precursors for Preparation of Nano-materials	1668
26	Elham Katouei Zadeh	Production and Characterization of Urea-formaldehyde Nanocapsules Containing Oil	1673
27	Saman Kohnepoushi	Synthesis of Nano γ -Al ₂ O ₃ and Surface Modification in Order to Enhanced Heavy Oil Recovery Application	1687
Nanoelectronics and Nanomaterials for Energy			
28	Sedigheh Barzegar	Rapid Fabrication of Alumina Nanowires by an Ultrahigh Voltage Two Step Anodization Technique	1031
29	Mozhagn Hosseinneshad	Fabrication and Investigation of Nanostructured Dye-sensitized Solar Cells Using ZnO and TiO ₂ Nanoparticles	1035
30	Seyed Mohsen	Practical and Simple Magnetic Ionic Liquids for CO ₂ Transformation	1045

Sadeghzadeh			
31	Morteza Saghafi	Preparation and Electrochemical Characterization Of Ni-Co Oxides/CNT Composites for Supercapacitor Application	1080
32	Mohsen Heidari	All Optical Switch Using Graphene	1158
33	Farzaneh Ghorab	Insulated InP (100) Semiconductor by Nano Nucleus Generation in Pure water	1198
34	Maryam Alidaei	Efficiency Enhancement of Perovskite Solar Cells via the Morphology and Crystallinity Improvements of CH ₃ NH ₃ PbI ₃ Absorber Layer	1202
35	Nasibeh Mansoor Rezaei	Lifetime Improvement of Organic-inorganic Hybrid Perovskite Solar Cells by Encapsulation	1236
36	Mohsen Kazemi Arjas	Effects of Micro and Nano Textures of Silicon Substrate on the Hydrophobicity and Reflection of the Surface for Solar-cell Applications	1308
37	Ameneh Mazarji Nejad	Improvement Electrical Resistivity Of PEDOT:PSS Containing TiO ₂ Nanoparticles Films on Glass Substrates by Post Treatment for Using Solar Cell	1420
38	Rouhollah Shakernejad	UV Photodetecting Performance Analysis of ZnO Nanorod Arrays Grown on Rotating Substrate: Evaluation of the Initial Rest Time	1524
39	Abbas Jafarizad	The Magnetic Graphene-based Nanocomposite: An Efficient Anticancer Delivery System	1577
Properties of Nanostructured Materials			
40	Zahra Dehghani	Nonlinear Optical Properties of 5CB Nematic Liquid Crystal Doped of Synthesized of ZnS Nanoparticles	1029
41	Marzieh Nadafan	Raman Shift Investigation of Different Concentrations of MWCNTs in TiO ₂ /Ag/MWCNTs Nanocomposites	1038
42	Mehran Riazian	Electrical Properties and Enhance of Photocatalytic Activity of TiO ₂ Nanorods Doped with Aluminum Oxide	1070
43	Javad Vahabzadeh Pasikhani	Fabrication Free-standing TiO ₂ Nanotube Membranes with Both Ends Open: Investigation the Photocatalytic Property for Degradation of 2,4-Dichlorohenol	1142
44	Fariba Ahmadi	Investigation of Noise Effect on Heat Capacity of Cu Nanoparticles	1170
45	Mahmoud Naseri	Study on Hyperfine Parameters of the MgFe ₂ O ₄ , ZnFe ₂ O ₄ , MnFe ₂ O ₄ Nanoferrites	1179
46	Mehri Hoseinzadeh	Ultrasonic Synthesis of Fe-BTC Metal-organic Framework as Photocatalyst: Effects of Reaction Time and Temperature	1247
47	Shiva Moradi	Effect of Processing Parameters on the Mechano-chemical Synthesis of Nano Crystalline Mo-Cu/Al ₂ O ₃ Composite	1258
48	Ali Hooshyar	The Effect of Electrospun Nanofibers Alignment on the Synthesis of One-dimensional Silicon Carbide Nanostructure	1329
49	Mehdi Sadeghi	Analysis of Optical Bistability of a Single Layer Graphene for TE and TM Mode Polarizations at Terahertz Frequencies	1348
50	Pegah Zandi	Effect of Drying Environment on Grain Size of Titanium Dioxide Nano-powder Synthesized via Sol-gel Method	1352
51	Somaye Ashrafabadi	Investigation on Influence of Etching Time and Solution Temperature on Physical Properties of Silicon Nanowires through 1-MACE Method	1353
52	Reza Peymani Forooshani	Optical and Structural Properties of Colloidal Zirconia Nanoparticles Prepared by Arc Discharge in Liquid	1416
53	Afsaneh Mozdbar	The Effect of Precursor on The Optical Properties of Carbon Quantum Dots Synthesized by Hydrothermal/Solvothermal Method	1422
54	Najmeh Moazeni	Structural and Mechanical Properties of Medical Grade Polyurethane Electrospun from Mixed Solvents	1452
55	Nooshin Biazar	Optical and Structural Properties of Carbon Dots/TiO ₂ Nanostructures Prepared via DC Arc Discharge in Liquid	1494
56	Shaghayegh Soltani	The Effect of Various Types of Protecting Agent on Chemical Exfoliation of Graphite to Produce Graphene Oxide	1512
57	Maryam Zandieh	Conductive Polyester Fabric Using Carbon Black Nano Particle and PEDOT:PSS	1593
58	Delaram Tolieh	Mechanical Properties of Electrospun Fibers with Different Degrees of Alignment	1602
59	Khadijeh Mardani	Angular Dependence of the Quenching Coefficients in a Suspension of Rd6G and TiO ₂ Nanoparticles	1691

POSTER PRESENTATION | 13 NOV. | 10:30 – 12:30

Ultrafine Grained and Nanostructured Materials			
1	Nader Mastoori	Investigation of FSW on Microstructural Characterization and Mechanical Properties of Nano-TiO ₂ Doped API-X70 Steel	1021
2	Mohammad Namdar	The Effect of SiC Nano Particles on Mechanical Properties of Double Sided Friction Stir Welding of AA 6061	1058
3	Alireza Najari	Effect of Processing Parameters on the Mechano-Chemical Synthesis of Nano Crystalline Mo-Cu Alloy	1061
4	Sajad Emami	Microstructural Refining During Friction Stir Welding of SAF 2205 Duplex Stainless Steel	1071
5	Elham Rajabi Toutkaboni	The Effect of Surface Mechanical Attrition Treatment on Mechanical Properties of Various Steel Types	1185
6	Mehdi Rezaeian-Delouei	The Effect of the Number of Passes of Friction Stir Processing (FSP) on Microstructure and Hardness of AZ31/SiO ₂ /Graphite Hybrid Nanocomposite	1215
7	Farzaneh Teimoory	Effect of Pr on the Grain Refinement and Mechanical Properties of AM50 Alloy in As-Cast Condition	1282
8	Farshid Malek Ghaini	Microstructural Characteristics of the Built Up Layer of Cast Alloy Inconel 713 by Electrospark Deposition	1326
9	Jamshid Nemati	Experimental Study of the Effect of Passes Number on Material Properties Deformed by ECAE	1341
10	Milad Foughani	The Effect of Double Steps Heat Treatment on the Microstructure of Nanostructure Bainitic Medium Carbon Steels	1374
11	Farshad Moradi	Investigation of Microstructure and Hardness of High Silicon-Medium Carbon, Nanostrucutred Bainitic Steels	1435
12	Omid Mohammadtaheri	Effect of Non-Metallic Inclusion Size on Phase Transformation Temperature in Niti Shape Memory Alloy in Terms of VIM Casting	1447
13	Mohsen Balavar	Controlling the Mechanical Properties of Carbon Steel by Thermomechanical Treatment	1550
14	Rasoul Pouriamanesh	The Effect of TiO ₂ Incorporation on the Microstructural and Mechanical Properties of Friction Stir Welded API 70 Steel	1586
15	Farzam Ghasimakbari	The Effect of Brazing Parameters on Corrosion Behavior of Brazed Aluminum Joints	1643
16	Faezeh Javadzadeh Kalahroudi	Effect of High-Pressure Torsion on the Microstructural Evolution and Mechanical Properties of an Fe-10Ni-7Mn (wt. %) Lath Martensitic Steel	1650
17	Shima Ahmadzadeh Salout	Fine Grained 304 ASS Processed by a Severe Plastic Deformation and Subsequent Annealing; Microstructure and Mechanical Properties Evaluation	1654
Nanomaterials for Separation and Purification			
18	Mohammad Hassan Kanani	Functionalized Halloysite for the Removal of Acid Red 1 from Simulated Textile Wastewater	1151
19	Sara Pakdaman	Photocatalytic Removal of <i>p</i> -Nitrophenol from Artificial Wastewater by Ternary Magnetic TiO ₂ /Fe ₃ O ₄ /MWCNTs Nanocomposites	1152
20	Samane Goftari	Functionalization of Silica Particle by Amino-Terminated Dendrimer-Like Polyamidoamine Polymer for Adsorption of Acid Red 1	1156
21	Mohammad Majidi Ahoee	The Effect of Novel ZnO/CNT and Hydrophilic Functionalized Nanocomposites on the Reduction of Viscosity of Heavy Oil for Application in Enhanced Oil Recovery (EOR)	1200
22	Maryam Sadat Kazemi	Removal of Cr (VI) from Aqueous Solution by Modified Ultrafiltration Membrane	1233
23	Ali Izadi-Darbandi	Antibacterial Properties of Silver Nanoparticle-Decorated Porous Polyurethane Surface for Water Purification	1303
24	Sepideh Shakibi	Nanostructured Filter for Coloured Waste Water by Pectin Extracted from Orange Peel	1415
25	Shakiba Naeimi	Performance of Novel Adsorbent Prepared by Magnetic Metal-Organic Framework (MOF) Modified by Potassium Nickel Hexacyanoferrate for Removal of Cs ⁺ from Aqueous Solution	1428
26	Sara Habibia	Application of Al ₂ O ₃ /Silica Nanocomposite for Enhanced Oil Recovery	1449
27	Javad Razavi Nezhad	Proficiency Feasibility of Multi-Walled Carbon Nanotubes in the Present of Polymeric Surfactant on Enhanced Oil Recovery	1456
28	Behzad Aghabarari	The Use of Syahklahan Mineral Soil as an Adsorbent of Heavy Ion from Aqueous Phase	1552
29	Tahereh Rohani Bastami	Magnetic poly (acrylonitrile- co- acrylic acid) Nanofibers as a Powerful Nanosorbent for Extraction of Malachite Green from Water Sample via Magnetic Dispersive Solid Phase Extraction Method	1681

Nanomaterials for Sensing			
30	Saiedeh Goudarzi	On the Dependence of Structural and Ammonia Gas Sensing Properties of ZnO Thin Films on Mg Doping	1074
31	Ali Bashiri Rezaie	Ammonia and Acids Colorimetric Sensing Properties of Green In-situ Synthesis of Cupric Oxide Nanoparticles on Wool Fabric	1426
32	Mehdi Bagherizadeh	Sensing Hydrogen Sulfide by Decorated Phosphorene Nano-Structures: A DFT Study	1433
33	Maryam Moazeni	Development of an Electrochemical Biosensor for Vitamin B12 Using D-Phenylalanine Nanotubes	1479
34	Sahar Ali Asgari	In Situ Sonosynthesis of Selenium on Cotton Fabric Sensing Hydrogen Peroxide	1489
35	Esmat Ebadati	Investigation of Nitrobenzene Reduction over Clay Supported Ni and Pd Nanocatalysts	1590
36	Fatemeh Shahbazi Farahani	Carbon-supported Manganese Dioxide Nanoparticles as an Electrocatalyst for Oxygen Reduction Reaction (ORR) in Microbial Fuel Cells	1629
37	Seyyed Mohammad Ghasem Mousavi-kiasari	Sensitivity Improvement of Surface Plasmon Resonance Biosensor Based on Graphene with Addition of Germanium Nano-particles	1676
Nanobiomaterials			
38	Fatemeh Sadat Sangsefidi	Synthesis, Characterization and Investigation Cytotoxicity of Cerium Oxide Nanostructures on the Mesenchymal Stem Cell	1007
39	Mina Shakeri	Fabrication of Peptide Nanotubes Through Self-Assembly Method	1011
40	Morteza Alehosseini	Fabrication Hemocompatible (PCL-1 α)-Heparin Nanocomposite Fibrous Membrane for Bone Tissue Regeneration	1046
41	Nadia Abzan	Fabrication and Characterization of Piezoelectric PVDF-Graphene Scaffold for Nerve Tissue Engineering	1056
42	Fariba Moghaddasi	Curcumin Nanoemulsion: Green Synthesis, Characterization, and Antioxidant Activities	1060
43	Narges Ahmadi Khoie	Sol-Gel Synthesis of (Ca-Ba)TiO ₃ Nanoparticles for Bone Tissue Engineering	1066
44	Reza Mahdavi	Nano-graphene Oxide and Vitamin D Delivery	1172
45	Neda Salek	The Effect of Electrospun Nanofibers of Nylon 66 on the 3-point Bending of Dental Composites	1191
46	Hadi Hosseini	Biosynthesis of Highly Porous Bacterial Cellulose Nanofibers	1195
47	Rashin Eshghiesfahani	5-Fluorouracil-loaded Polymeric Carriers Based on Chitosan/Polyvinyl Blends: A Case Study on Morphology and Drug Release	1221
48	Firoozeh Torki	Synthesis and Application of Novel Nanophotocatalysts NiS and NiS-PPY-Fe ₃ O ₄ for Degradation of Cephalexin	1280
49	Hassan Mohammadi	Fabrication and Characterization of Antibacterial PVA Nanofibrous Mat by Incorporating Gallnut Nanoparticles via Electrospray Technique	1295
50	Nasrin Karimi	Fabrication and Characterization of Hydroxyapatite-Graphene Oxide-Chitosan Nanocomposite Coating on Ti Substrate	1306
51	Maria Ghasemi	Development of Novel Electrospun PCL/Gelatin/Alginate Scaffold for Vascular Tissue Engineering	1339
52	Aida Fadakar Sarkandi	Bacterial Cellulose with Antibacterial Properties Through In Situ Synthesis of Silver Nanoparticles	1403
53	Reza Asadi	Magnetic Hyperthermia Properties of Biocompatible Iron Oxide Nanoparticles Coated with Oleic Acid and Polyethylene Glycol with Different Concentrations	1545
54	Elham Rostami	Preparation of Porous Silicon Oxide Modified with APTES and Application in Drug Delivery	1655
55	Mohammad Chahkandi	New Nano-Structure of Potassium-Substituted Hydroxyapatite/ β -TCP/ CPP Mixture	1683

POSTER PRESENTATION | 13 NOV. | 14:30 – 16:30

Hybrid Materials and Nanocomposites			
1	Mehdi Salehirad	Preparation, Characterization and Properties of Magnetically Aligned Hexagonal Boron Nitride Nanosheets/Epoxy Nanocomposites	1016
2	Sara Haddadi	Nano-diamond/Poly(vinyl alcohol) Nanocomposites for Biomedical Applications	1030
3	Pegah Pirahmadi	The Effect of Bacterial Cellulose on the Shape Memory Behavior of Polyvinyl Alcohol Nanocomposite Hydrogel	1095
4	Farzaneh Farrokhzad	Synthesis, Characterization and Magnetic Properties Investigation of Ag-CoFe ₂ O ₄ -GO Nanocomposite	1101
5	Narjes Esmaeili	A Comparison Study of Photocatalytic Activity of Fe ₃ O ₄ /TiO ₂ and Ag/TiO ₂ on the Degradation of 2, 4-Dichlorophenol	1201
6	Kaveh Padasht Dahkaee	Investigation of New NiO/SiO ₂ Nanocomposites for Ultralow Interfacial Tension in Soroush Heavy Oil Field Comparing with NiO and SiO ₂ Nanoparticles	1204
7	Mahboobeh Sadeghi	Preparation and Characterization of Nanocomposite Graphene Oxide – Polyvinylpyrrolidone Coating on Ti ₆ Al ₄ V Alloy for Improvement of Tribological Behavior	1234
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