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Conference Program Day 1, Azar 25





8:00 – 9:00		Registration	
9:00 - 11:15		Opening Ceremony	
9:00 – 10:40	9:00 – 9:05	Quran + Iran National Anthem	
	9:05 – 9:10	Welcome Address of the Master of the Ceremony	
	9:10 – 9:20	Video Clip: Mixed Clip of University and College	
	9:20 – 9:25	Welcome Speech by the President of the “Iranian Metallurgy and Materials Engineering Society”, <u>Prof. Shahram Raygan</u>	
	9:25 – 9:40	Official Opening by the Conference Chairman, <u>Dr. Farzad Khodabakhshi</u>	
	9:40 – 10:00	Minister of Welfare and Social Security’s Speech, <u>Dr. Ahmad Meydari</u>	
	10:00 – 10:20	Director of National Iranian Copper Industries Developments & Engineering (NICIDEC), <u>Dr. Seyyed Mostafa Feiz Ardakani</u>	
	10:20 – 10:35	Introducing of UFGNSM2026 Conference by <u>Dr. Farzad Khodabakhshi</u>	
	10:35 – 10:40	Introducing of Vaghar’s Award by <u>Dr. Mohammad Mokmeli</u>	
	10:45 – 11:15	Prof. Majid Nili-Ahmadabadi (Keynote Speaker)	 Chairs: Prof. Mahmudi and Prof. Saremi  Small Data, Big Impact: A Roadmap to AI in Materials Science and Engineering
11:15 - 11:45		Break	
 Chairs: Prof. Mahmudi and Prof. Saremi			
11:45 - 12:05		Dr. Vahid Zarghami (Keynote Speaker)	Advanced Materials Development Document
12:05 - 12:35		Dr. Mohamadreza Sadeghimoghadam (Keynote Speaker)	Global Base Metals Business Trends for the Coming Years
12:35 - 13:15		Prof. Mahmoud Nili-Ahmadabadi (Plenary Speaker)	Materials Engineering Perspectives on Shape Memory Alloys
13:15 – 14:30	13:15 – 13:30	 Memorial Photo	
	13:30 – 14:30	 Pray and Lunch	
14:30 – 17:00		 Panel 1: Circular Economy - Coordinator: Dr. Mohammad Mokmeli	
17:00 – 18:00		Break and Poster Session	
18:00 – 18:30		Election of The IMMES Association Members	



Panel 2: High-Temperature Coatings


14:30-17:00	Coordinator: Dr. Reza Soltani and Dr. Saeed Rastegari
Dr. Ali Asghar Ebrahimi	High temperature alloys and coatings
AmirHossein Rezaie	Effect of homogenization time on the microstructure of high entropy alloy Ni _{29.7} Co ₃₀ Al ₁₈ Cr ₁₀ Fe ₁₀ W ₂ B _{0.3}
Hamid Reza Mohammadi Sichani	The Improvement of the Thermal Performance of a Copper Surface in Subcooled Pool Boiling by Applying a Thin SiO _x Coating Using Atmospheric Cold Plasma
Amin Hafezi	Experimental investigation of the effect of laser shock peening on residual stress and fatigue behavior of nickel-based superalloy Inconel 738

Extractive Metallurgy		 Chairs: Prof. Abdizadeh and Prof. Rashchi
14:30 – 14:55	<u>Prof. Saeed Sheibani</u> (Keynote Speaker)	From Magnetite to Hematite: Adapting the Pelletization Process Under Resource Constraints
14:55 – 15:15	Farzad Baniasad Azad	Industrial-Scale Assessment of the Impact of Top Gas Scrubber Outlet Temperature on Natural Gas Consumption in the MIDREX Direct Reduction Process
15:15 – 15:35	Shayan Navaei	Effect of Grinding Approaches on the Preparation of Hematite Concentrate
15:35 – 15:55	Saeed Mahmoudi Hosseinabadi	Investigation of the effect of temperature on cobalt electrowinning in sulfated environment with reverse pulse current
15:55 – 16:15	Farzad Pahnaneh	Investigation of the Influence of Non-Metallic Inclusions on the Initiation and Growth of Lamination and HIC Defects in Pressure Equipment, Using an FFS Evaluation
16:15 – 16:35	Hananeh Haji Mohammadi	Comparative Study of Iron Ore Reduction by Volatile Matter from Non-Coking Coal and Walnut Shell: Part II: Kinetic Analysis
16:35 – 16:55	Mehrshad Farahani Jokar	Synthesis of cobalt nanoparticles by hydrometallurgical method from cobalt oxide used in thermal energy storage cells
16:55-17:15	Mohammad Javad Yousefi	Transition from gray to green hydrogen in the Midrex direct reduction process and the application of artificial intelligence in this industry: A review of an operational case in Iran
17:00 – 18:00	Break and Poster Session	

Corrosion and Surface Engineering		 Chairs: Prof. Amadeh and Prof. Shahrabi
14:30 – 15:00	<u>Dr. Habibollah Rastegari</u> (Keynote Speaker)	Investigation of the Abrasive Wear Behavior of New Design Steel Liners in the Slag Concentrating Mill of the Sarcheshmeh Copper Complex
15:00 – 15:20	Atabak Jodeyri	Investigation of the Effect of Immersion Time in the SILAR Coating Process on the Morphology and Supercapacitive Behavior of Chromium Sulfide Thin Films
15:20 – 15:40	Mohammad Mahdi GhaziAsgar	Preparation and characterization of a carbide composite coating using the Thermal Reactive Diffusion (TRD) method with mass-production capability for industrial applications
15:40 – 16:00	Behnaz Hamrahi	Investigation of the Effect of SiO ₂ Additive on the Corrosion Behavior and Bioactivity of Plasma Electrolytic Oxidation Coatings on Titanium
16:00 – 16:20	AmirHossein Moradzadeh	The effect of plasma nitriding temperature on the surface properties of DIN 1.8509 steel
16:20 – 16:40	Sara Safari	The effect of gas plasma treatment on the wettability and surface properties of porous ceramic and polymeric coatings
16:40 – 17:00	Mina Dadkhah	Study of Tribological Properties of Vanadium-Chromium Composite Coatings on W1 Steel on Pack Cementation Process by Thermoreactive Diffusion (TRD) Method
17:00 – 18:00	Break and Poster Session	

Materials for Energy		 Chairs: Prof. Raygan and Dr. Babaei
14:30 – 15:00	<u>Dr. Roozbeh Parviz</u> (Keynote Speaker)	Enhanced Hydrogen Storage Properties of Mg via <i>In-situ</i> Formation of Catalysts
15:00 – 15:20	Mohammad Reza Asadi	Effect of Boron Impurities on the Electrochemical Hydrogen Storage Performance of Graphene Oxide-Coated Nickel Foam
15:20 – 15:40	Mohammad Bagheriyeh	Ni ₂ P Electrocatalyst Supported on Carbon Cloth: An Investigation of Its Electrochemical Activity for Hydrogen Evolution in Water
15:40 – 16:00	Mobin Mazloomi	Microstructure and Hydrogen Storage Properties of the Non-Equiatomic TiVCrFeZr High-Entropy Alloy
16:00 – 16:20	AmirAli Farmani	Electrochemical deposition of the Ni@MIL-88B(Fe) High-performance electrocatalyst for the hydrogen evolution reaction (HER)
16:20 – 16:40	Kian Yousefipour	Microstructural Characterization and Supercapacitive Performance of Amorphous and Crystalline Nickel Molybdate
16:40 – 17:00	Ali Talebi	Development of a Ni–Mn–P Electrocatalyst Surface Engineered with a Nanosheet Structure on Nickel Foam for Enhanced Hydrogen Evolution Reaction Performance
17:00 – 18:00	Break and Poster Session	





Additive Manufacturing		 Chairs: Dr. Akbari-Mousavi and Dr. Miresmaeili
14:30 – 15:00	<u>Dr. Farzad Khodabakhshi</u> (Keynote Speaker)	Functionally Graded Materials by Multi-Layer Friction Surfacing (MLFS) Additive Manufacturing
15:00 – 15:20	Mahyar Hassanabadi	Microstructure Control via Experimental-Numerical Melt Pool Engineering in Laser Powder Bed Fusion
15:20 – 15:40	Fatemeh Asghari	The optimal processing-parameter window of Inconel 939 superalloy for production using the laser powder bed fusion method
15:40 – 16:00	Mostafa Talebipour	Cladding of railway valves using Stellite 6 powder by direct laser deposition method
16:00 – 16:20	Ali Vaseghianfard	4D printing of cellular structure damper of Iron-based shape memory alloy using wire arc additive manufacturing
16:20 – 16:40	Mohammad Reza Hosseini	Optimization of Selective Laser Melting Process Parameters for Cobalt–Chromium–Molybdenum–Tungsten Alloy for Dental Applications: Microstructural Characterization and Mechanical Properties
16:40 – 17:00	Ali Mojaverpour	Investigation of the macrostructure and microstructure of ultrasonic welding of aluminum to copper
17:00 – 18:00	Break and Poster Session	

Advanced Materials		 Chairs: Prof. Seyed Ebrahimi and Dr. Khodaei
14:30 – 15:00	<u>Prof. Mohammad Abdolahad</u> (Keynote Speaker)	Using Silicon Nanowires for Wireless Electrochemotherapy
15:00 – 15:20	<u>Dr. Mehrdad Mozaffarian</u> (Keynote Speaker)	Investigation of the electrochemical behavior of synthesized bismuth oxychloride in order to use it in the capacitive deionization process
15:20 – 15:40	Mohammad Hossein Shahidi	Synthesis and Characterization of Zeolite/Zinc Oxide Composite: Photocatalysis and Adsorption
15:40 – 16:00	Alireza Gholami	Electrochemical Potential Assessment of Liquid Phase Exfoliated Borophene
16:00 – 16:20	Amirhossein Golshani	Production of aluminum-based metal-organic framework and investigation of the effect of benzotriazole loading
16:20 – 16:40	Maede Taherkhani	Novel Cellulose Biomass as a High-Performance Triboelectric Material for Energy Harvesting
16:40 – 17:00	Arefeh Ahmadi	The effect of hydrostatic pressure in the high-pressure torsion process on the transformation temperature in Cu-12Al-4Ni shape memory alloy
17:00 – 18:00	Break and Poster Session	

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Conference Program Day 2, Azar 26



8:00 – 8:30	Registration	
	 Chairs: Prof. Saremi and Prof. Nili-Ahmadabadi	
8:30 - 9:00	Dr. Hamed Mirzadeh (Plenary Speaker)	Advanced Steels and High-Entropy Alloys with Superior Strength-Ductility Synergy
9:00 - 9:30	Prof. Guney Guven Yapici (Keynote Speaker)	Potential of Severe Plastic Deformation as a Post-Processing Tool for Additive Manufactured Alloys (Online)
9:30 - 11:10	 Panel 3: Education and Research in the Era of Digital Transformation Coordinators: Prof. Hossein Memarian and Dr. Mahmoud Reza Hashemi	
11:10 - 12:10	Break and Poster Session	
11:45 – 13:30	Panel 4: Crossing the Valley of Startup Death: A Sustainability Approach for New Businesses Coordinator: Dr. Asef Karimi	
13:30 – 14:30	 Pray and Lunch	
14:30 – 16:10	Panel 5: Additive Manufacturing Coordinators: Mapna Additive (Dr. Bahmani, Dr. Badrossamay, Mr. Eng. Vatanara, Mr. Eng. Foroozmehr)	
16:10 – 17:00	 Break and Poster Session	
17:00 – 18:30	Closing Ceremony	




17:00 - 17:05	Master of the Ceremony
17:05 - 17:25	Head of IMIDRO's Speech, Dr. Mohammad Masoud Samiei Nejad
17:25 - 17:40	President of the Casting Society's Speech and Announcement of Next iMat, Mr. Eng. Abdolhamid Ghadimi
17:40 - 17:50	Music
17:50 - 18:30	Awards Ceremony

Casting and Solidification		Chairs: Prof. Halvae and Prof. Akhlaghi
9:30 – 9:50	Hadi Mahmoudi	A review on nozzle blockage during Continuous Casting and methods to prevent it
9:50 – 10:10	Benyamin Amanirad	The effect of minor alloying with phosphorus on the microstructure and performance behavior of the Sn63Pb37 solder alloy
10:10 – 10:30	Saeed Hosseinreza	Designing a novel gating system based on the critical velocity theory and investigating its impact on mechanical properties
10:30 – 10:50	Amin Gholamalitabar	Effect of Steel Molten Superheat in Continuous Casting on Microstructure and Mechanical Properties of Hot-Rolled Products
10:50 – 11:10	Fatemeh Najafi	Determination of the Homogenization Temperature Range for a New-Generation Cobalt-Based Superalloy by Combining Thermal Analysis and Thermodynamic Simulation
11:10 – 11:30	Shaghayegh Khoshdel	Improving the mechanical properties of Mg-5Zn-0.75Sr-0.25Ca alloy using the homogenization process
11:10 – 12:10	Break and Poster Session	
Extractive Metallurgy		Chairs: Prof. Sheibani and Dr. Mokmeli
12:10 – 12:30	<u>Dr. Mohammad Mokmeli</u> (Keynote)	Process Selection Approach for Recovering Gold and Silver from Bioleach Residue of a Copper Concentrate
12:30 – 12:50	Mohammad Farahmand	The Effect of Gangue Materials and Basicity on the Reducibility of Pellets Produced by Golgohar Mining and Industrial Company
12:50 – 13:10	Mona Ebrahimi	Recovery of Cadmium Metal from the Leaching Solution of Spent Nickel–Cadmium Batteries Using the Electrowinning Method
13:10 – 13:30	Sajjad Ebrahimimoghaddam	Assessment of Gold Adsorption on Reduced Graphene Oxide Across Different Gold Complex Systems
13:30 – 14:30	Pray and Lunch	
Welding and Joining		Chairs: Prof. Amadeh and Dr. Sarkari-Khorrami
14:30 – 14:50	<u>Dr. Fardin Nematzadeh</u> (Keynote)	Numerical and Experimental Investigation of SMAW Cladding of Inconel 625 Alloy on ASME SA387 Low Alloy Steel Part One: Investigation of the Effect of Residual Stresses
14:50 – 15:10	Mohammad Sadeghzadeh	The effect of kinetic parameters on TLP bonding of 304L stainless steel
15:10 – 15:30	Roksana Rashidi	Influence of N ₂ addition in GTAW shielding and backing gas on Super Duplex Stainless Steel properties
15:30 – 15:50	Mohammad Hossein Shahbazi	Synthesis and Characterization of High Entropy Filler Alloys FeCoNiMnCu and FeCoNiCrCu for Welding Applications
15:50 – 16:10	Danial Kianersi	Influence of TiO ₂ nanoparticles and a Zn interlayer on the mechanism and strength of friction stir spot-welded joints between AA6061-T6 aluminum and ultra-low-carbon EN10130 DC06 steel
16:10 – 17:00	Break and Poster Session	
17:00 – 18:30	Closing Ceremony	

Nanomaterials		Chairs: Prof. Seyed Ebrahimi and Prof. Abdizadeh
9:30 – 9:50	Dr. Amin Yourdkhani (Keynote)	A Multi-Faceted Approach to Boosting the PEC Performance of Liquid Phase Deposited Hematite Photoanodes
9:50 – 10:10	Parisa Mokhtari	Investigation of the effect of samarium oxide and antimony oxide doping on the dielectric and piezoelectric properties of lead-based PMN-PZT ceramics
10:10 – 10:30	Alborz Bakhtiari	Effect of oxygen doping on photocatalytic performance of graphitic carbon nitride
10:30 – 10:50	Fatemeh Moradian	Copper Nanoparticle Synthesis by Electromagnetic Levitation Gas Condensation Method
10:50 – 11:10	Kiana Shakeri	Fabrication, Structural Characterization, and Field Emission properties of InSb nanowires via Thermomechanical Nanomolding (TMNM)
11:10 – 12:10	Break and Poster Session	
Artificial Intelligence and Entrepreneur		Chairs: Prof. Nili-Ahmadabadi and Dr. Malekan
12:10 – 12:30	Babak Ghorbanian	Identifying the relationships among the factors affecting the productivity of high-technology industries in knowledge-based businesses in the field of materials engineering
12:30 – 12:50	Pourya Ghahramanian	Using machine learning to predict current density of high-entropy oxide electrodes in lithium-ion batteries.
12:50 – 13:10	Farid Ghazani	Toward Intelligent Process Control in Additive Manufacturing: Machine Learning Prediction of Melt-Pool Geometry in AlSi10Mg
13:10 – 13:30	Sanay Shamsizadeh Maleki	Machine Learning-Based Prediction of Drug Release from Dendrimer Nanocarriers
13:30 – 14:30	Pray and Lunch	
Additive Manufacturing		Chairs: Dr. Miresmaeili and Dr. Akbari-Mousavi
14:30 – 14:50	Mohadeseh Ramezani	Comparing room and elevated temperature mechanical properties of AlSi10Mg alloy fabricated by the additive manufacturing technology
14:50 – 15:10	Narges Akhavan	Microstructural Engineering of Electron Beam Melting (EBM)-Manufactured Ti-6242 Alloy: From Martensite Formation to Phase Stabilization
15:10 – 15:30	Saeed Rezaie	Effects of GMAW Mode and Heat Input on the Microstructure and Mechanical Properties of IN718 Fabricated by Wire-Arc Additive Manufacturing
15:30 – 15:50	Ghazal Vosoughi	High-Temperature Deformation Behavior and Microstructural Evolution of Additively Manufactured Ti-6Al-2Sn-4Zr-2Mo Alloy
15:50 – 16:10	Donya Esmailoon	Additive manufacturing of NiCrBSi Alloy Using Laser Powder Bed Fusion
16:10 – 17:00	Break and Poster Session	
17:00 – 18:30	Closing Ceremony	

Metal Forming		Chairs: Prof. Parsa and Prof. Mohammad Hassan Pishbin
9:30 – 9:50	<u>Dr. Reza Alizadeh (Keynote)</u>	Using Severe Plastic Deformation to Improve Properties of Biodegradable Mg Alloys
9:50 – 10:10	Navid Ghahghahaie	Development and implementation of a practical method based on simulation and geometric analysis for calculating the mass of the barreling region in the design of discs manufactured by hot forging of carbon steel
10:10 – 10:30	Ali Molaie	Effect of Cross Rolling on Mechanical Properties of AZ31 Alloy
10:30 – 10:50	Parisa Afshari	Evolution phases of and Redistribution of Intermetallic Precipitates in Thermo-Mechanically Processed Zn–1Mg–1Cu–0.2Sr Biodegradable Alloy
10:50 – 11:10	Mohammad Hossein Heidari	Mechanical Properties and Microstructural Evolution of the AlCoCrFeNi _{2.1} High Entropy Alloy Processed by High Pressure Torsion
11:10 – 11:30	Morteza Ezzati	Modification of Microstructure and Enhancing Mechanical Properties of as-cast M206 aluminum alloy via Friction Stir Processing
11:10 – 12:10	Break and Poster Session	
Metal Forming		Chairs: Prof. Parsa and Prof. Mohammad Hassan Pishbin
12:10 – 12:30	Mohammad Ghasem Gholami	Analysis of damage mechanisms at the leading edge and adjacent areas of the FSX-414 gas turbine blade
12:30 – 12:50	Mohammad Taherkhani	Development of a new White Lubricant and a new application method for Nickel–base superalloy hot forming
12:50 – 13:10	Shabnam Darvishi	Investigating the effect of multi-directional forging process on microstructure and mechanical properties of biodegradable Zn-0.5Mn-0.3Ca alloy
13:10 – 13:30	AmirHossein Hosseinifar	Fractography in the Al0.3CoCrFeNi HEA sheet after the cold rolling deformation
13:30 – 14:30	Pray and Lunch	
Simulation and Modelling		Chairs: Prof. Parsa and Dr. Mirzadeh
14:30 – 14:50	<u>Dr. Javad Rasti (Keynote)</u>	Calibration of GTN Damage Model Parameters Using Taguchi Method and Analysis of Variance in Al-7.5%Mg Alloy
14:50 – 15:10	Ali Bahrami	Optimization of the Chemical Composition of Aluminum Alloy 6082 to Reduce Detrimental Intermetallic Phases and Microstructural Segregation Using Mixture Design and Thermodynamic Calculations
15:10 – 15:30	Seyyed Ali Hosseini	Simulation and comparative evaluation of laser welding using ABAQUS and SYSWELD software
15:30 – 15:50	Ramin Farmani	Determination of structural and Angular components of the chemical composition of silicate base bioactive glass with the Lennard-Jones force field by molecular dynamics
15:50 – 16:10	Iman Mohammadi	Simulation of friction stir welding in butt welds of grade 5 titanium alloy and measurement of heat distribution to measure residual stress Part One: Thermal Analysis
16:10 – 17:00	Break and Poster Session	
17:00 – 18:30	Closing Ceremony	

Ceramic and Electronic Materials		Chairs: Prof. Hadian and Dr. Heidariramsheh
9:30 – 9:50	<u>Dr. Hossein Ahmadvand (Keynote)</u>	Piezoelectric and Ferroelectric Ceramics
9:50 – 10:10	<u>Dr. Hamid Esfahani (Keynote)</u>	Potential of ceramic nanogenerators in energy harvesting by flexible polymer-ceramic hybrid nanofibrous transducers
10:10 – 10:30	Mohamad Reza Tavakoli	Production of uniform Ni Coating on SiC particles by electroless plating method
10:30 – 10:50	Maryam Afham	Preparation of Fe ₂ O ₃ /MWCNT nanocomposite in situ by homogeneous hydrolysis method and investigation of its properties
10:50 – 11:10	MohammadHossein Akbari	Synthesis and Structural Evaluation of Aluminum titanate (Tialite) Produced by the Solid-State Reaction Method
11:10 – 12:10	Break and Poster Session	
Corrosion and Surface Engineering		Chairs: Prof. Heydarzadeh Sohi and Dr. Soltani
12:10 – 12:30	<u>Dr. Leila Chitsaz Khoei (Keynote)</u>	The effect of process parameters on microstructure of coating produced by hybrid plasma electrolytic and electrophoretic method
12:30 – 12:50	Zeynab Dadashi	Corrosion inhibition of mild steel in 1 M sulfuric acid using Butternut squash husk extract as a green and eco-friendly inhibitor
12:50 – 13:10	Roya Sabzaligol	The Effect of Chemical Composition and Process Temperature on the Morphology and Wettability of Porous Polylactic Acid – Polyethylene Glycol Coatings
13:10 – 13:30	Ahmad Akbari	Failure study on hot rolling rollers of copper and increase of their crack resistance by using surface coating
13:30 – 14:30	Pray and Lunch	
Powder Metallurgy		Chairs: Prof. Akhlaghi and Dr. Khorsand
14:30 – 14:50	<u>Dr. Mazyar Azadbeh (Keynote)</u>	Lead-bronze powder-metallurgy bimetal liner with a low-carbon steel backing
14:50 – 15:10	Hossein Tavakoli	Study, investigation and laboratory production of Si ₃ N ₄ -xY ₂ O ₃ ceramics using spark plasma method
15:10 – 15:30	Amir Reza Alavizadeh	A Sustainable Approach for Fabricating Ti-6Al-4V/HA Nanocomposites through Recycling of Machining Chips
15:30 – 15:50	Masoumeh Nozarinejad	Investigation of the Effects of Substitution of Niobium with Aluminum on the Microstructure, Hardness, and Nanoscratching Behavior of AlCoCrFeNi High-Entropy Alloy System
15:50 – 16:10	Mehdi Ghazanfari	Investigation of nanomechanical properties and wear behavior of Ti/TiN gradient coatings: In order to increase the mechanical performance of surfaces
16:10 – 17:00	Break and Poster Session	
17:00 – 18:30	Closing Ceremony	

Physical and Mechanical Metallurgy		 Chairs: Dr. Malekan and Dr. Mirzadeh
9:30 – 9:50	Soheil Emami	Structural Evolution of $Zr_{75}Cu_{30}Al_{10}Ni_5$ Bulk Metallic Glass Following Elastostatic Rejuvenation
9:50 – 10:10	Soroush Nekoei	Microstructural Evolution and Mechanical Properties of Commercially Pure Magnesium Through Sequential Thermomechanical Processes
10:10 – 10:30	Sara Zarei	Investigation of the effect of tempering temperature and time on the microstructure and mechanical properties of Cr-Mo steels
10:30 – 10:50	Mahan Kahvaeizad	The effect of cyclic intercritical annealing on the strength-elongation balance in dual-phase steels used in automobile bodies
10:50 – 11:10	Reza Mohammadi Bayati	Influence of Zr Addition and Thermomechanical Treatment on the Microstructure, Hardness, and Electrical Conductivity of Cu-Ni-Co-Si Alloys
11:10 – 11:30	Raheleh Namvarian	Fatigue Behavior of Extruded Biodegradable Mg-1Zn-0.2Ca alloy
11:10 – 12:10	Break and Poster Session	
Composite		 Chairs: Prof. Akhlaghi and Dr. Khorsand
12:10 – 12:30	<u>Dr. Sohrab Sanjabi (Keynote)</u>	A Review on the Effect of Core-Shell Structures in Enhancing the Wear Resistance of Infiltration Brazing Composite Coatings
12:30 – 12:50	Amir Jaber	Integrated Evaluation of Functional Properties of Glass Fiber/Epoxy Composites for Industrial Protective Applications
12:50 – 13:10	Mohammad Hassanzadeh	Effect of alumina nanoparticles on the strain field distribution of carbon fiber-reinforced polymer nanocomposites
13:10 – 13:30	Negar Asgharzadeh Yazdi	Investigation of the characteristics and properties of Niobium/Chromium composite coatings formed in a powder cementation environment by Thermo-Reactive Diffusion (TRD) on tool steel 1/1545
13:30 – 14:30	Pray and Lunch	
Biomaterials		 Chairs: Dr. Mehdiavaz and Dr. Fatemeh Pishbin
14:30 – 14:50	<u>Dr. Mohammad Reza Barati (Keynote)</u>	Highly dispersed g-C ₃ N ₄ quantum dots/PEI-coated Zn _{0.39} Fe _{2.61} O ₄ nanocomposite fabricated by microwaved-assisted precipitation for biomedical application
14:50 – 15:10	Maryam Orozgan	Evaluation of the Effect of Green Tea on the Mechanical Properties of Gelatin-Acrylamide Adhesive Hydrogel for Medical Applications
15:10 – 15:30	Mojtaba Abbasi	Biodegradation Behavior of MG-Zn-Ca Alloy by Zn Addition
15:30 – 15:50	Soheil Nazari Moghadam	Fabrication and characterization of a polymer nanocomposite scaffold composed of titanium dioxide for the treatment of skin cancer
15:50 – 16:10	Arman Tayyebi	Study of the effect of temperature on the Diffusion coefficients of atoms in the chemical composition of bioactive glass containing the same amounts of phosphorus oxide and calcium oxide simulated by molecular dynamics for use in bone tissue engineering
16:10 – 17:00	Break and Poster Session	
17:00 – 18:30	Closing Ceremony	