

Poster Presentations: Monday - Wednesday

ID	Author	Title
AP 1	Matsumoto, Ryosuke	Atomistic analyses of nucleation and propagation behavior of ridge shaped kink band in long-period-stacking-ordered phase
AP 2	Uranagase, Masayuki	Quantitative evaluation of dislocation nucleation as thermal activation process via atomistic simulations
AP 3	Barannikova, Svetlana	The effect of hydrogen on the macroscopic strain localization of steels
AP 4	Tsuji, Naomchi	Adaptive boost molecular dynamics method for study of rare events in plastic deformation
AP 5	Shinya Ogata	Microtension behaviour of dual-phase steel subjected to pre-straining
AP 6	Matsuoka, Ryo	Microtension behavior of hydrogen-containing metastable austenitic stainless steel
BP 1	Ostapenko, M.G.	The effect of residual stresses on the change of the B2 phase lattice parameter in the NiTi with Tantalum coating after pulsed electron-beam treatment
BP 2	Meisner, L.L.	Structural phase states and residual stresses in the Ta/TiNi surface layers before and after high-current pulsed electron beam impact
BP 3	Weidmann, Peter	Laser assisted residual stress determination in ceramic coatings
BP 4	Lee, Min Ha	Residual stress evaluation of shot peened Ag-based contact materials via diffraction technique
CP 1	Gakam, Herve	Determination of the Critical Resolved Shear Stress in a NiAl-Cr composite by Discrete Dislocation Dynamics
CP 2	Casali, Ricardo A.	Resonant acoustic for nondestructive inspection of accumulated damage assessment in austenitic stainless steel subjected to fatigue tests in rotating bending
CP 4	Okamoto, Yuji	Fatigue properties of fine-grained AZ31 magnesium alloy
CP 5	Momoe, Ryoichi	Influence of pre-strain on fatigue crack growth behavior in rolled AZ31 magnesium alloy
CP 6	Morita, Shigeki	Anisotropy of cyclic deformation and fatigue properties in rolled AZ31 magnesium alloy

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CP 7	Šulák, Ivo	Dwell effects on low cycle fatigue behaviour of diffusion coated nickel base superalloy IN 713LC at temperature of 800°C
CP 8	Benachour, Mustapha	Fatigue crack initiation from notches and mean stress effect in 2024 T351 Al-alloy
CP 9	Kubena, Ivo	Cyclic softening in the MA956 ODS steel
DP 1	Li, Xiaohu	Strain induced martensitic Transformation in Austempered Ductile Iron (ADI)
DP 2	YAN, YABIN	An in situ experimental method for evaluating the tensile property of single crystalline gold nanorod
EP 1	Bonk, Simon	Ductility in cold-rolled ultrafine-grained (UFG) tungsten (W): Correlation between microstructure and mechanical properties
EP 2	Rittgen, R.	Surface oxidation of metallic glass surfaces and its effect on nanotribology
EP 3	Rathmann, Dominic	How to optimize the fatigue properties of bimodal microstructures of nanocrystalline (nc) and ultrafine grained (ufg) Nickel?
EP 4	Gwak, Eun-Ji	Mechanical response of nanoporous gold made from Au-Ag precursor alloys with different initial microstructure
EP 5	Kang, Na-Ri	Nanotubular ZnO for flexible gas sensor
EP 6	Woo, O Bae	Thickness-dependent tensile properties of PEDOT:PSS
EP 7	Ahn, Seung-Min	Indentation Size Effect of Nanoporous Gold: Correlated by Unique Structure and its Size-Dependent Mechanical Behavior
EP 8	Sabisch, Julian E. C.	Investigation of mechanical anisotropy in Mg using Berkovich indentation
EP 9	Schlich, Franziska	Size- and phase-dependent mechanical properties of ultrathin silicon and Ge ₂ Sb ₂ Te ₅ films
EP 10	Pejchal, Vaclav	Fracture of brittle spheres in compression: testing microscopic fused quartz
EP 11	Tahar, Sayah	Roughness behaviour of nanomaterials
EP 12	Chen, Guang	Fabrication of Al-Cu Composite Reinforced with BN by Powder Liquid-Phase Forging

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EP 13	Valdez, Lucy A.	Electronic properties and mechanical stability of ZnO in the bulk and nanowire structures under large uniaxial stresses
EP14	Bedorf, Dennis	High temperature nanoindentation - Dynamic measurements for thin film analysis
EP 15	Wang, Xiaoyuan	First-principles study on ferroelectricity and its coupling behavior with mechanical deformation of ultrathin PbTiO ₃ nanotube
EP 16	Moheb Shah Din, Abed	Improved elasticity of bilayer graphene cantilevers with interlayer shear and in-plane extension effects
EP 17	Hosseini-Toudeshky	Simulation of mechanical properties of nanotwin-strengthened metals
EP 18	Seipp, Sebastian	Compression-shear behavior of a strongly textured Magnesium alloy AZ31 under different strain rates
FP 1	Sriba, A.	Effect of filler metal on micro-structural, mechanical and corrosion behavior of austenitic stainless steel weldment 316L
GP 1	Spaskova, Elena M.	The experimental study of stress-strain states in stress concentrators with the use of the method of digital image correlation
GP 2	Kim, Jun-Yeong	Estimation of Fracture Toughness of Metallic Materials Using Instrumented Indentation Test
GP 3	Temerova , Maria S.	The complex experimental studies of the mechanical properties of reinforcing elements
GP 4	Tashkinov, Mikhail	Methods of Stochastic Mechanics for Characterisation of Microstructural Failure in Heterogeneous Materials
HP 1	Benediktovitch Andrei	XRD examination of oxide dispersion strengthened steels irradiated by swift heavy ions
HP 2	Uglov, Vladimir	Radiation stability of ZrSiN system under the Xe ions irradiation
HP 3	Rodolpho De Oliveira Leo, José	Creep and anelasticity of ferritic ODS steel MA956
HP 4	Štefan, Jan	Application of Automated Ball Indentation Innovative Technique on the Determination of Mechanical Properties of Nuclear Structural Materials
IP 1	Kutelia, Elguja	Internal Friction and Shear Modulus Temperature Dependence of 9%Cr Ferritic Steel P92 in 25 ÷ 750°C Temperature Range

ID	Author	Title
IP 2	Houille, Frederic	Atomistic Simulations of Dislocation-Interface Interactions in the γ/γ' Microstructure in Ni-base Superalloys
KP 1	Lobanov, Dmitrii S.	Deformation and fracture of aircraft fibrous polymer composites in external actuating factors and high temperature mechanical tests
KP 2	Bertram, Benjamin	Supervised Estimation of the Local Glass Fiber Content from 2D X-ray Imaging of Plate-like Parts made from Sheet Molding Compounds
KP 3	Matveenکو, Valery P.	Numerical simulation for developing grounds in support of application of fiber optic sensors for monitoring of composite materials
KP 4	Araki, Kunihiro	Research of the Processing Parameters of Three-dimensional Printer and the Product
LP 1	Shumpei, Ota	Surface Nitriding of Titanium Using Atmospheric-controlled IH-FPP Treatment
LP 2	Kimizuka, Hajime	Ab-initio coarse-grained approach for modeling the two-dimensional packing structure of solute nanoclusters in Mg-based LPSO phases
XP 1	Feng, Zude	Dynamic Mechanical Properties of Cortical Bone Depend on Bone Mineral Content
XP 2	Park, Sang-Youn	Modeling and observation of compressive behaviors of anisotropic aluminum cellular structures based on the Voronoi tessellation concept
XP 3	Lee, Mi Yeon	Variation of Mechanical Properties in the Pipe Bends Fabricated by High-frequency Induction Bending
XP 4	Boukhalfa, Amirat	Effect of Ultra-violet radiation on the mechanical behavior of PMMA (polymethyl methacrylate).
XP 5	Bbabou, Hamid	Thermal ageing effect on mechanical behavior of polycarbonate
XP 6	Myung Rak Choi	Effect of Strain-Rate on Tensile Properties of Nuclear Piping Materials at RT and 316oC
XP 7	van der Mey, M. Michiel	Retained Austenite: Non Destructive Analysis by using X-Ray according to ASTM 975-03
XP 8	Souidi, Fatiha	Influence of the addition of cooked and crushed clay on the mechanical strength of a self-compacting concrete

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XP 9	Kherbache, Souad	Study of concretes and mortars made with metallic fibers