

Poster Subject List

Influence of nitrogen addition on the temperature dependences of hardening mechanisms in austenitic stainless steels	Yasuhito Kawahara	<i>Department of Materials, Kyushu University</i>	S1S01
Characterization and generation of material microstructures by machine learning consistent with metallurgists' way of thinking	Satoshi Noguchi	<i>The University of Tokyo</i>	S1S02
Monte Carlo simulation on grain growth in dual phase microstructure, followed by sensitive analysis	Ayano Kita	<i>Nagoya University Graduate School of Engineering Materials Design Innovation Engineering</i>	S1S03
Bayesian optimized cellular automaton modeling of austenite-to-ferrite phase transformation in carbon steel	Yoshihisa Mino	<i>Nagoya University Graduate school of Engineering Materials Design Innovation Engineering</i>	S1S05
Abnormal Goss grain growth in pure iron by two-way cold rolling and subsequent annealing	Yutaro Suzuki	<i>Nagoya University Graduate School of Engineering Materials Design Innovation Engineering</i>	S1S06
δ pearlite Reaction by Carburization in Fe-Cr Binary Alloy	Hao Wu	<i>tokyo institute of technology</i>	S1S09
Surface hardening and nano-sized clustering during low temperature nitriding of Fe-35Ni-X (X=Cr, V, Mo, Al) alloys	Yulin Xie	<i>Graduate school of engineering</i>	S1S10
3-dimensional morphology of upper and lower bainite in the initial stage of transformation	Shotaro Jimbo	<i>Department of Material Engineering, The University of Tokyo</i>	S1S11
Spheroidization of Lamellae Cementite in Pearlitic Steel with Kinked Structure	Kazuki Okayasu	<i>Chiba Institute of Technology</i>	S1S13
Heterogeneous chemistry and size of retained austenite and its thermal stability in austempered Fe-2Mn-1.5Si-0.4C alloy	Miku Watanabe	<i>Tohoku university</i>	S1S14
Axial tensile load fatigue testing of SCM435 steel for bolts	chang Jiang	<i>Shanghai University</i>	S1S15
Elimination of orientation inheritance in a CrNiMoV steel	Chao Yang	<i>Shanghai University</i>	S1S16
The effect of austenite recrystallization to B segregation and precipitation behavior	Daiki Terazawa	<i>Nippon Steel Corporation</i>	S1Y01
Characteristics of retained austenite formed by friction stir welding of ultrahigh carbon steels	Koyo Ohga	<i>Nippon steel</i>	S1Y02

Martensitic transformation induced by electro-chemical polishing in metastable austenitic stainless steel	Hojun Gwon	<i>POSTECH</i>	S1Y03
Fracture toughness prediction model for TiN-ferrite steels	Yosuke Nonaka	<i>Nippon Steel Corporation</i>	S1Y04
Abnormal grain growth in martensitic steel	Delphic Chen	<i>China Steel Corporation</i>	S1Y05
The effect of precipitate size on magnetic properties of non-oriented electrical steels	Po-Yu Chen	<i>Iron and Steel Research & Development Department, China Steel Corporation</i>	S1Y06
The influence of pre-plating on the LME phenomenon of advanced high strength steel	Xue Bai	<i>Shougang Research Institute of Technology</i>	S1Y07
First-principles study on the P-induced embrittlement and de-embrittling effect of B and C in ferritic steels	Jingliang Wang	<i>University of Science and Technology Beijing</i>	S1Y08
Microstructure evolution of heat affected zone in submerged arc welding and laser hybrid welding of 690MPa high strength steel and its relationship with ductile-brittle transition temperature	Xuelin Wang	<i>University of Science and Technology Beijing</i>	S1Y09
Effect of Nb and Mo on the morphology of lath martensite	Yuzo Kawamoto	<i>Nippon Steel</i>	S1Y10
A comparative study on intrinsic mobility of incoherent and semicoherent interfaces during the austenite to ferrite transformation	Haokai Dong	<i>South China University of Technology</i>	S1Y13
Molecular Dynamics Approaches for Migrating Boundary Induced Plasticity of Iron	Simoon Sung	<i>Seoul National University</i>	S2S01
Computational approach for predicting anisotropy and formability of thermo-mechanically processed steel sheet in terms of texture control	Kyung Mun Min	<i>Seoul National University</i>	S2S02
Bake hardening behavior accompanying yield point phenomenon in low carbon steel	Woojin Cho	<i>Department of Materials Science and Engineering, Seoul National University</i>	S2S05
Computer-aided estimation of plastic properties using instrumented indentation test	Ta-Te Chen	<i>National Institute for Materials Science</i>	S2S06
Relationship between hall-petch coefficient and grain boundary segregation of carbon and nitrogen in ferritic steel	Yuxiong Zhou	<i>Kyushu University</i>	S2S07

Numerical study on the effect of interfacial energy on the interfacial strength and work of adhesion of bcc-Fe tilt interfaces	Sien Liu	<i>Department of Materials Engineering, The University of Tokyo</i>	S2S08
Nanomechanical Analysis of SUS304L Stainless Steel with Bimodal Distribution in Grain Size	viola paul	<i>Kyushu University, National Institute for Materials Science (NIMS)</i>	S2S09
Grain refinement strengthening in Si-C combined added ferritic steel	Tianze Ma	<i>Kyushu university</i>	S2S10
Microstructure and Mechanical Properties of Resistance Spot Welding Joints Between Two Hot Stamping Boron Steels and DP1180 steel	Chao Lin	<i>Chao Lin</i>	S2S11
Deformation behaviors and fracture mechanism in medium Mn forged steels	Tinghui Man	<i>Shanghai University</i>	S2S13
Mechanical behavior of Si-alloyed interstitial free steels investigated by pop-in analysis during nanoindentation	Ryota Hamana	<i>Toyohashi University of Technology</i>	S2S14
Effect of aging temperature on microstructure and mechanical properties of microalloyed steel for cold heading bolt	bo Zi WANG	<i>Shanghai university</i>	S2S15
Deformation behaviour of two different types of medium carbon bainitic steel designed by Sparse Mixed Regression Model (SMRM)	Elango Chandiran	<i>Light-weight Metallic Materials Group, Research Center for Structural Materials (RCSM), NIMS, Japan</i>	S2Y01
Hydrogen Absorption Behavior and Absorbed Hydrogen Trapping Sites in Rolling Contact Fatigue	Miyuri Kameya	<i>Nippon Steel Corporation</i>	S2Y02
Exploration of optimal microstructure for improving strength and ductility of dual-phase steels	Takayuki Shiraiwa	<i>The University of Tokyo</i>	S2Y03
Atomistic calculations of the interaction between screw dislocations and symmetric tilt grain boundaries in iron	Chiharu Kura	<i>Applied Physics Research Laboratory, Technical Development Group</i>	S2Y04
Effect of hardenability on anisotropic deformation of cylinder of steel in carburized quenching process	Haruka Yoshida	<i>Nippon Steel Corporation</i>	S2Y05
Micromechanical investigation of ductile void nucleation in dual-phase steels with varying microstructure	Fabien Briffod	<i>The University of Tokyo</i>	S2Y06
Evaluation of residual stress on circular punched end-face and its validity	Yuji Sakiyama	<i>Nippon Steel Corporation</i>	S2Y07

The work-hardening behavior of pearlite under strain path changes	Kohei Nakada	<i>NIPPON STEEL CORPORATION</i>	S2Y08
Characterization of the Portevin-Le Chatelier Effect in Austenitic Stainless Steel using High-Temperature Digital Image Correlation Analysis	Seung-Yong Lee	<i>Tokyo Institute of Technology</i>	S2Y09
Creep Properties of High Chromium Steel Weld Metals	Hiroimi Oyamada	<i>KOBE STEEL, LTD.</i>	S2Y10
Elastic limit of martensite steel sheet containing retained austenite	Junya Tobata	<i>JFE Steel Co.</i>	S2Y11
Effects of Tensile Testing Temperature on Mechanical Properties and Deformation Behavior in Medium Mn Steels	Yoshiyasu Kawasaki	<i>JFE Steel Corporation</i>	S2Y12
Effect of ultra-grain refinement on deformation behavior of Fe-24Ni-0.3C metastable austenitic steel	Wenqi Mao	<i>Japan atomic energy agency</i>	S2Y13
Global and local deformation behavior of ferrite + martensite + austenite steel analyzed by in-situ X-ray diffraction and digital image correlation (DIC) method	Lavakumar Avala	<i>Kyoto University</i>	S2Y14
Three-dimensional observation of small fatigue cracks growth process in a beta titanium alloy Ti-22V-4Al using multiscale synchrotron radiation computed tomography	Gaoge Xue	<i>Hokkaido University</i>	S3S01
The formation process of multiple facets in internal fatigue fractures of ($\alpha+\beta$) Ti-6Al-4V	Takuya Yamazaki	<i>Division of Mechanical and Space Engineering, Hokkaido University</i>	S3S02
Estimation of fatigue life for internal cracks using crack growth rates measured in a vacuum environment	Sourav Kumar Modi	<i>Hokkaido University</i>	S3S03
Influence of shearing condition on delayed fracture of sheared edge of 1470 MPa grade steel	Satoshi Maeda	<i>JFE steel Corporation</i>	S3Y01
Enhanced plastic fatigue durability of Fe-Mn-Cr-Ni-Si bidirectional-TRIP steel	Fumiyoshi Yoshinaka	<i>National Institute for Materials Science</i>	S3Y02
Hydrogen embrittlement susceptibility of a 1.5GPa class dual phase steel evaluated by using U-bend specimens	Rama Srinivas Varanasi	<i>Institute for Materials Research, Tohoku University</i>	S3Y03
First-Principles Investigation on the Beneficial Effect of Interstitial Carbon on Steel Corrosion	Mariko Kadowaki	<i>National Institute for Materials Science</i>	S3Y04
Crack propagation behavior in rotational bending fatigue test of soft nitrided JIS SCM420 steel	Naoya Ihara	<i>JFE Steel</i>	S3Y05