B2-2: Structural Materials

| •B22-O-01 | Microstructure and Mechanical Properties of AZ61Mg Alloy Multi-Directionally Forged Using Die Under | |
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| | Decreasing Temperature Conditions | |
| | H. Miura and M. Kobayashi. Department of Mechanical Engineering, Toyohashi University of Technology | i47 |
| •B22-O-02 | Characterization of Precipitates in Magnesium Alloys Using Atomic Resolution HAADF-STEM and EDS | |
| | Jian-Feng Nie ^{1,2} and Houwen Chen ² . ¹ Department of Materials Science and Engineering, Monash University, | |
| | ² School of Materials Science and Engineering, Chongqing University | i47 |
| B22-O-03 | Investigation of the Carbides Evolution Under Extended Heat Treatment in Cr-Mo Steels | |
| | Seung-Pyo Hong ¹ , Seong-Il Kim ¹ , Ming-zhe Li ¹ , Soon-Taik Hong ² and Young-Woon Kim ¹ . ¹ Seoul National | |
| | University, Department of Materials Science and Engineering, ² POSCO, Technical Research Laboratories | i48 |
| B22-O-04 | The Discovery of ω -Fe in Common Steels by TEM and XRD | |
| | Dehai Ping ¹ , Masato Ohnuma ² and Takahito Ohmura ¹ . ¹ National Institute for Materials Science, ² Faculty of | |
| | Engineering, Hokkaido University | i48 |
| B22-O-05 | Have a Good TRIP: Atom Probe Investigations on Ultrafine Austenite in Strong Steels | |
| | Guan-Ju Cheng ¹ , Steve Woei Ooi ² , Simon P. Ringer ³ and Hung-Wei Yen ¹ . Department of Materials Science & | |
| | Engineering, National Taiwan University, ² Department of Materials & Metallurgy, the University of Cambridge, | |
| | ³ The Australian Centre for Microscopy & Microanalysis, the University of Sydney | i49 |
| | The Table and Total Control of the Children of | |

| B22-O-06 | Microstructural Evolution of 304SS upon Shot Peening and Heat Treatment Yinsheng He¹, Han-sang Lee², Cheol-Woong Yang³, Je-Hyun Lee¹ and Keesam Shin¹. ¹School of Nano and Advanced Materials Engineering, Changwon National University, ²Advanced Materials Group, Korea Electric Power Research Institute, ³School of Advanced Materials Science & Engineering, Sungkyunkwan University |
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| B22-O-07 | Microstructural Evolution of Some Metals and Alloys upon Shot Peening *Keesam Shin and Yinsheng He.** School of Nano and Advanced Materials Engineering, Changwon National University |
| B22-O-08 | Influence of Heating Rate on Microstructure and Recrystallization Behavior of Al-Zn-Mg-Cu Alloy After Rolling <i>Zhiqing Zhang and Qunying Yang.</i> College of Materials Science and Engineering, Chongqing University |
| B22-O-09 | Analysis of Stable Precipitates in Beta-Titanium Alloys Aged at Medium Temperature for Long-Time Periods <i>Eiichi Sukedai¹</i> , <i>Elisabeth Aeby-Gautier² and Moukrane Dehmas²</i> . ¹Okayama University of Science (Formerly), and Institut Jean Lamour, Universite de Lorraine (Visiting Researcher), ²Institut Jean Lamour, Universite de Lorraine |
| B22-O-10 | Transmission Electron Microscopy Characterization of the Microstructures in a Rapidly Solidified Mg-Sn Alloy <i>Yurong Ma, Li Ye, Dongshan Zhao and Jianbo Wang.</i> Center for Electron Microscopy, School of Physics and Technology, Wuhan University |
| B22-O-11 | Atomic Scale STEM Analysis of Structure and Dopant Effects on α-Alumina Grain Boundary <i>Tetsuya Tohei¹</i> , <i>Masahiro Sakai¹</i> , <i>Naoya Shibata¹ and Yuichi Ikuhara¹¹</i> .¹ Institute of Engineering Innovation, The University of Tokyo, ² Nanostructures Research Laboratory, Japan Fine Ceramics Center |
| B22-O-12 | In Situ Atomic Scale Observation of Grain Rotation Mediated by Grain Boundary Dislocations <i>Lihua Wang¹, Ze Zhang¹¹², En Ma³, Mingwei Chen³ and Xiaodong Han¹</i> . ¹Beijing Key Laboratory and Institute of Microstructure and Property of Advanced Materials, Beijing University of Technology, ²Department of Materials Science & Engineering, Zhejiang University, ³Department of Materials Science, John Hopkins Universityi52 |