

**Symposia – D03**  
**High Entropy Alloy and Metallic Glasses**

**Oct 15 (Sunday), 2023**

**Conference Room: 7101A, -1#floor**

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**8:30-10:20 Session I**  
**Chair: Kefu Yao, Yong Zhang**

**8:30-8:55 (D03-01)**  
**HEAs: what's new in mechanical behavior?**  
(Invited)  
En Ma, Xi'an Jiaotong University, China

**8:55-9:20 (D03-02)**  
**Intrinsic Tensile Ductility in High Entropy Metallic Glass** (Invited)  
Yong Yang, City University of Hong Kong, China

**9:20-9:40 (D03-03)**  
**Effects of plastic deformation on corrosion properties and high temperature oxidation behavior of CoCrFeMnNi high entropy alloy** (Invited)  
Pan Gong, Huazhong University of Science and Technology, China

**9:40-10:00 (D03-04)**  
**Massive interstitial solid solution medium-entropy alloys achieve ultrahigh strength and large deformability** (Invited)  
Chang Liu, Xi'an Jiaotong University, China

**10:00-10:20 (D03-05)**  
**The effect of oscillatory loading on the time-temperature-transformation (TTT) curve of alloy system: a molecular dynamic simulation study** (Invited)  
Baoshuang Shang, Songshan Lake Materials Laboratory, China

**10:20-10:40 Coffee Break**

**10:40-12:00 Session II**  
**Chair: Yong Yang, Yang Shao**

**10:40-11:00 (D03-06)**  
**A medium-range structure motif linking amorphous and crystalline states** (Invited)  
Si Lan, Nanjing University of Science and Technology, China

**11:00-11:20 (D03-07)**  
**非晶合金的结构不均匀性表征及其与剪切带形核的关联性研究** (Invited)  
Meng Gao, Ningbo Institute of Materials

Technology and Engineering, Chinese Academy of Sciences, China

**11:20-11:40 (D03-08)**  
**Nanostructured Metallic Glasses for Highly Efficient Catalytic Performance** (Invited)  
Shuangqin Chen, Nanjing University of Science and Technology, China

**11:40-12:00 (D03-09)**  
**Rejuvenation and microstructure evolution of metallic glass via recovery annealing process** (Invited)  
Wei Guo, Huazhong University of Science and Technology, China

**12:00-13:10 Lunch**

**13:10-15:30 Session III**  
**Chair: Tao Yang, Jun Ding**

**13:10-13:35 (D03-10)**  
**A research on the glass-glass transition in high entropy glassy alloys** (Invited)  
Kefu Yao, Tsinghua University, China

**13:35-13:55 (D03-11)**  
**Dynamic Deformation behavior of high-entropy alloys** (Invited)  
Junwei Qiao, Taiyuan University of Technology, China

**13:55-14:15 (D03-12)**  
**Wear-resistant CoCrNi multi-principal element alloy at cryogenic temperature** (Invited)  
Qing Zhou, Northwestern Polytechnical University, China

**14:15-14:35 (D03-13)**  
**Enhanced helium ion irradiation tolerance in a Fe-Co-Ni-Cr-Al-Ti high-entropy alloy with L12 nanoparticles** (Invited)  
Yilu Zhao, Harbin Institute of Technology, China

**14:35-14:55 (D03-14)**  
**Machine learning-assisted design of high entropy alloys with enhanced oxidation resistance** (Invited)  
Ziqiang Dong, Shanghai University, China

**14:55-15:15** (D03-15)

**Strengthening of Zr-based metallic glass at low dose helium ion irradiation** (Invited)

Yujun Xie, Shanghai Jiao Tong University, China

**15:15-15:30** (D03-16)

**Study on strength-plasticity regulation and performance of nanocrystalline medium entropy alloy coating**

Dechao Zhao, Shanghai Jiao Tong University, China

**15:30-15:50** Coffee break

**15:50-17:50** Session IV

Chair: Junwei Qiao, Pan Gong

**15:50-16:10** (D03-17)

**Properties of high-entropy alloys at extreme conditions** (Invited)

Yong Zhang, University of Science and Technology Beijing, China

**16:10-16:30** (D03-18)

**A novel single-crystal L12-strengthened Co-rich high-entropy alloy with excellent high-temperature strength and antioxidant property** (Invited)

Tao Yang, City University of Hong Kong, China

**16:30-16:50** (D03-19)

**Origin of the high propensity for nanoscale deformation twins in the CrCoNi medium-entropy alloy** (Invited)

Jun Ding, Xi'an Jiaotong University, China

**16:50-17:05** (D03-20)

**Increasing the reliability of Reverse Monte Carlo simulations of metallic glass structure by imposing strict constraints from partial pair correlation functions**

Xuerui Wei, Songshan Lake Materials Laboratory, China

**17:05-17:20** (D03-21)

**Tailoring phase separation in a Zr-Cu-Al bulk metallic glass through ultrasonic vibration**

Sohrabi Sajad, Shenzhen University, China

**17:20-17:35** (D03-22)

**High-strength and malleable dual-phase nanostructured Ta-based metallic glass via atomic manufacturing**

Hang Zhao, Liaoning University-Songshan Lake Materials Laboratory, China, China

**17:35-17:50** (D03-23)

**Strain partitioning behavior in a hetero-structured and precipitated complex-concentrated alloy with good strength-ductility synergy**

Jiantao Fan, Shanghai Jiao Tong university, China

**17:50** Dinner