

Yufeng Zheng, Ph.D.

Assistant Professor

Department of Chemical and Materials Engineering
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EDUCATION

- **Ph.D. in Materials Science and Engineering** May 2013
The Ohio State University Columbus, Ohio, US
Advisor: Prof. Hamish L. Fraser
Thesis: Nucleation Mechanisms of Refined Alpha Microstructure in Beta Titanium Alloys
- **M.S. in Materials Science and Engineering** Jun. 2010
The Ohio State University Columbus, Ohio, US
- **B.S. in Physics** Jul. 2007
University of Science and Technology of China Hefei, Anhui, China

PROFESSIONAL APPOINTMENT

- **Assistant Professor** Aug. 2019— Present
Department of Chemical and Materials Engineering University of Nevada, Reno
- **Research Associate** Aug. 2014— Jul. 2019
Center for the Accelerated Maturation of Materials The Ohio State University
Center for Electron Microscopy and Analysis
- **Postdoctoral Researcher** Aug. 2013— Jul. 2014
Center for the Accelerated Maturation of Materials The Ohio State University
Center for Electron Microscopy and Analysis

HONORS and AWARDS

- **2020 Acta Journals' Outstanding Reviewer** Scripta Materialia, 2021
- **2018 Acta Journals' Outstanding Reviewer** Scripta Materialia, 2019
- **Finalist of Aaronson award for excellent young researcher**
International Conference on Solid-Solid Phase Transformation in Inorganic Materials, 2015
- **Excellent graduate in University of Science and Technology of China**
University of Science and Technology of China, 2007
- **Excellent undergraduate student in Anhui province of China**
University of Science and Technology of China, 2006

RESEARCH INTERESTS

- **Processing-structure-property relationships in advanced metallic materials**
 - Additive manufacturing of advanced lightweight alloys
 - Non-equilibrium phase transformations in metals and alloys under extreme conditions
 - Defects induced phase transformation and deformation behavior in metallic materials
 - Reversible stress induced phase transformation and shape memory effect
- **Advanced characterization in metallic materials**
 - 3D characterization (FIB-SEM tomography, S/TEM tomography and atom probe tomography)
 - Micro- to nano-scale *in-situ* characterization (*in-situ* heating and straining electron microscopy)
 - Atomic resolution characterization (Cs-corrected S/TEM and atom probe tomography)
 - Quantitative microstructure analysis using machine learning
- **Advanced manufacturing, alloys design, ICME & MGI**
 - DED and SLM of titanium alloys
 - Novel TRIP and TWIP titanium alloys for aerospace and bio-medical applications

- High throughput design of high entropy alloys for intermediate and high temperature application

PROPOSAL AND GRANT ACTIVITIES

- Bin Li, Dhanesh Chandra, **Yufeng Zheng** (co-PI), Sid Pathak, Zachary Karmioli, Acquisition of a New Mechanical Testing System for Materials, College of Engineering Differential Fee, \$59,000, **awarded**
- **Yufeng Zheng** (PI), Siddhartha Pathak, Bin Li, Infrastructure Support for In-situ Transmission Electron Microscopy Examination of Structure, Composition and Defect Evolution of Irradiated Structural Materials at University of Nevada Reno, DOE Scientific Infrastructure Support for Consolidated Innovative Nuclear Research, \$343,147, 07/2020-06/2021, **awarded**

PUBLICATIONS

- Citations: **1200**, h-index: **18**, i10-index: **24** (March 2021)
Google Scholar: <https://scholar.google.com/citations?user=wTYPOtwAAAAJ&hl=en>
ORCID ID: 0000-0003-2166-5784; Scopus Author ID: 55568519585
- * as corresponding author

Journal Papers (* as corresponding author; + student supervised)

[J42] Kaka Ma, **Yufeng Zheng***, Sriswaroop Dasari, Dalong Zhang, Hamish L. Fraser, Rajarshi Banerjee, Precipitation in Nanostructured Metals: a Review, *MRS Bulletin* (2021), DOI:[10.1557/s43577-021-00066-8](https://doi.org/10.1557/s43577-021-00066-8)

[J41] Abhishek Sharma, Vishal Soni, Sriswaroop Dasari, Srinivas Mantri, **Yufeng Zheng**, Hamish L. Fraser, Rajarshi Banerjee, Fine Scale α Precipitation in Ti-19at%V in the Absence of Influence from ω Precipitates, *Scripta Materialia*, 196 (2021) 113766, DOI: [10.1016/j.scriptamat.2020.113766](https://doi.org/10.1016/j.scriptamat.2020.113766)

[J40] Stoichko Antonov, Rongpei Shi, Dian Li+, Zachary Kloenne, **Yufeng Zheng***, Hamish L. Fraser, Dierk Raabe, Baptiste Gault, Nucleation and Growth of α Phase in a Metastable β -Titanium Ti-5Al-5Mo-5V-3Cr Alloy: Influence from the Nano-scale, ordered-orthorhombic O" Phase and α Compositional Evolution, *Scripta Materialia*, 194 (2021) 113672, DOI: [10.1016/j.scriptamat.2020.113672](https://doi.org/10.1016/j.scriptamat.2020.113672)

[J39] Pu Deng, Houshang Yin, Miao Song, Dian Li+, **Yufeng Zheng**, Barton C. Prorok, Xiaoyuan Lou, On the Thermal Stability of Dislocation Cellular Structures in Additively Manufactured Austenitic Stainless Steels: Roles of Heavy Element Segregation and Stacking Fault Energy, *JOM*, 72 (2020) 4232-4243, DOI: [10.1007/s11837-020-04427-7](https://doi.org/10.1007/s11837-020-04427-7)

[J38] Yipeng Gao, **Yufeng Zheng***, Hamish L. Fraser, Yunzhi Wang, Intrinsic Coupling Between Twinning Plasticity and Transformation Plasticity in β Titanium Alloys: a Symmetry and Pathway Analysis, *Acta Materialia*, 196 (2020) 488-504, DOI: [10.1016/j.actamat.2020.07.020](https://doi.org/10.1016/j.actamat.2020.07.020)

[J37] Yipeng Gao, Jia-hong Ke, Bo Mao, Yiliang Liao, **Yufeng Zheng**, Larry K. Aagesen, Twinning Path Determined by Broken Symmetry: a Revisit to Deformation Twinning in Hexagonal Close-packed Titanium and Zirconium, *Physical Review Materials*, 4, 070601 (R) (2020), DOI: [10.1103/PhysRevMaterials.4.070601](https://doi.org/10.1103/PhysRevMaterials.4.070601)

[J36] Duyao Zhang, Dong Qiu, Mark A. Gibson, **Yufeng Zheng**, Hamish L. Fraser, Arvind Prasad, David StJohn, Mark A. Easton, Refining Prior- β Grains of Ti-6Al-4V Alloy Through Yttrium Addition, *Journal of Alloys and Compounds*, 841 (2020) 155733, DOI: [10.1016/j.jallcom.2020.155733](https://doi.org/10.1016/j.jallcom.2020.155733)

[J35] Stoichko Antonov, **Yufeng Zheng**, John M. Sosa, Hamish L. Fraser, Jonathan Cormier, Paraskevas Kontis, Baptiste Gault, Plasticity Assisted Redistribution of Solutes Leading to Topological Inversion during Creep of Superalloys, *Scripta Materialia*, 186 (2020) 287-292, DOI: [10.1016/j.scriptamat.2020.05.004](https://doi.org/10.1016/j.scriptamat.2020.05.004)

[J34] Song Lu, Stoichko Antonov, Longfei Li, Chengpeng Liu, Xiaona Zhang, **Yufeng Zheng**, Hamish L. Fraser, Qiang Feng, Atomic Structure and Segregation Behavior of Creep Defects in a Co-Al-W-based Single

Crystal Superalloys under High Temperature and Low Stress, *Acta Materialia*, 190 (2020) 16-28. DOI: [10.1016/j.actamat.2020.03.015](https://doi.org/10.1016/j.actamat.2020.03.015)

[J33] Xing Zhang, Bo Mao, Yiliang Liao, **Yufeng Zheng***, Selective Laser Melting of Graphene Oxide-Reinforced Ti-48Al-2Cr-2Nb: Improved Manufacturability and Mechanical Strength, *Journal of Materials Research*, 35 (15), 1998-2005. DOI: [10.1557/jmr.2020.63](https://doi.org/10.1557/jmr.2020.63)

[J32] Stoichko Antonov, Zachary Kloenne, Yipeng Gao, Dong Wang, Yunzhi Wang, Qiang Feng, Hamish L. Fraser, **Yufeng Zheng***, Novel Deformation Twinning System in a Cold Rolled High-strength Metastable- β Ti-5Al-5Mo-5V-3Cr Alloy, *Materialia*, 9 (2020) 100614. DOI: [10.1016/j.mtla.2020.100614](https://doi.org/10.1016/j.mtla.2020.100614)

[J31] Srinivas Mantri, Talukder Alam, **Yufeng Zheng**, James Williams, Rajarshi Banerjee, Influence of Post Deposition Annealing on Microstructure and Properties of Laser Additive Manufactured Titanium Copper Alloys, *Additive Manufacturing*, 32 (2020) 101067. DOI: [10.1016/j.addma.2020.101067](https://doi.org/10.1016/j.addma.2020.101067)

[J30] Qianglong Liang, Dong Wang, **Yufeng Zheng***, Shuangshuang Shao, Yulin Hao, Rui Yang, Dipankar Banerjee, Hamish L. Fraser, Yunzhi Wang, Shuffle-nanodomain Regulated Strain Glass Transition in Ti-24Nb-4Zr-8Sn Alloy, *Acta Materialia*, 186 (2020) 415-424. DOI: [10.1016/j.actamat.2019.12.056](https://doi.org/10.1016/j.actamat.2019.12.056)

[J29] Abigail K. Ackerman, Vassili A. Vorontsov, Ioannis Bantounas, **Yufeng Zheng**, Yanhong Chang, Thomas McAuliffe, William A. Clark, Hamish L. Fraser, Baptiste Gault, David Rugg, David Dye, Interface Characteristics in an $\alpha+\beta$ Titanium Alloy, *Physical Review Materials*, 4, 013602 (2020). DOI: [10.1103/PhysRevMaterials.4.013602](https://doi.org/10.1103/PhysRevMaterials.4.013602)

[J28] Vishal Soni, Bharat Gwalani, Talukder Alam, Sriswaroop Dasari, **Yufeng Zheng**, Oleg N. Senkov, Daniel Miracle, Rajarshi Banerjee, Phase Inversion in a Two-phase, BCC + B2, Refractory High Entropy Alloy, *Acta Materialia*, 185 (2020) 89-97. DOI: [10.1016/j.actamat.2019.12.004](https://doi.org/10.1016/j.actamat.2019.12.004)

[J27] Vishal Soni, Oleg. N. Senkov, J-P. Couzinie, **Yufeng Zheng**, Bharat Gwalani, Rajarshi Banerjee, Phase Stability and Microstructure Evolution in a Ductile Refractory High Entropy Alloy, *Materialia*, 9 (2020) 100569. DOI: [10.1016/j.mtla.2019.100569](https://doi.org/10.1016/j.mtla.2019.100569)

[J26] Qianglong Liang, Zachary Kloenne, **Yufeng Zheng***, Dong Wang, Stoichko Antonov, Yipeng Gao, Yulin Hao, Rui Yang, Yunzhi Wang, Hamish L. Fraser, The Role of Nano-scaled Structural Non-uniformities on Deformation Twinning and Stress-induced Transformation in a Cold Rolled Multifunctional β -Titanium Alloy, *Scripta Materialia*, 177 (2020) 181-185. DOI: [10.1016/j.scriptamat.2019.10.029](https://doi.org/10.1016/j.scriptamat.2019.10.029)

[J25] **Yufeng Zheng***, Stoichko Antonov, Qiang Feng, Rajarshi Banerjee, Dipankar Banerjee, Hamish L. Fraser, Shuffle-induced Modulated Structure and Heating-induced Ordering in the Metastable β -Titanium Alloy, Ti-5Al-5Mo-5V-3Cr, *Scripta Materialia*, 176 (2020) 7-11. DOI: [10.1016/j.scriptamat.2019.09.027](https://doi.org/10.1016/j.scriptamat.2019.09.027)

[J24] Duyao Zhang, Dong Qiu, Mark A. Gibson, **Yufeng Zheng**, Hamish L. Fraser, David StJohn, Mark Easton, Additive Manufacturing of Ultrafine-grained High-strength Titanium Alloys, *Nature*, 576, 91-95 (2019). DOI: [10.1038/s41586-019-1783-1](https://doi.org/10.1038/s41586-019-1783-1)

[J23] Rongpei Shi, **Yufeng Zheng***, Rajarshi Banerjee, Hamish L. Fraser, Yunzhi Wang, ω Assisted α Nucleation in a Metastable β Titanium Alloy, *Scripta Materialia*, 171 (2019) 62-66. DOI: [10.1016/j.scriptamat.2019.06.020](https://doi.org/10.1016/j.scriptamat.2019.06.020)

[J22] Bharat Gwalani, Sindhura Gangireddy, Vishal Soni, **Yufeng Zheng**, Rajiv S. Mishra, Rajarshi Banerjee, Influence of Ordered L12 Precipitation on Strain-rate Dependent Mechanical Behavior in a Eutectic High Entropy Alloy, *Scientific Report*, 9 (2019) 6371. DOI: [10.1038/s41598-019-42870-7](https://doi.org/10.1038/s41598-019-42870-7)

[J21] **Yufeng Zheng***, William A.T. Clark, Hamish L. Fraser, Characterization of the Interfacial Structure of Coarse α Precipitates in a Metastable β -Ti Alloy Ti-5Al-5Mo-5V-3Cr, *JOM*, 71(7), 2291-2295. DOI: [10.1007/s11837-019-03441-8](https://doi.org/10.1007/s11837-019-03441-8)

- [J20] Bharat Gwalani, Stephane Gorsse, Vishal Soni, Matthew Carl, Nathen Ley, Aditya V. Ayyagari, **Yufeng Zheng**, Marcus Young, Rajiv Mishra, and Rajarshi Banerjee, Role of Copper on L₁₂ Precipitation Strengthened FCC Based High Entropy Alloy, *Materialia*, 6(2019) 100282. DOI: [10.1016/j.mtla.2019.100282](https://doi.org/10.1016/j.mtla.2019.100282)
- [J19] Bharat Gwalani, Stephane Gorsse, Deep Choudhuri, **Yufeng Zheng**, Rajiv S. Mishra, and Rajarshi Banerjee, Tensile Yield Strength of a Single Bulk Al_{0.3}CoCrFeNi High Entropy Alloy Can Be Tuned From 160MPa to 1800 MPa, *Scripta Materialia*, 162 (2019) 18-23. DOI: [10.1016/j.scriptamat.2018.10.023](https://doi.org/10.1016/j.scriptamat.2018.10.023)
- [J18] Qianglong Liang, **Yufeng Zheng***, Dong Wang, Yulin Hao, Rui Yang, Yunzhi Wang, Hamish L. Fraser, Nano-scale Instabilities in a Gum-like Ti-24Nb-4Zr-8Sn Metastable β -Ti Alloy, *Scripta Materialia*, 158 (2019) 95-99. DOI: [10.1016/j.scriptamat.2018.08.043](https://doi.org/10.1016/j.scriptamat.2018.08.043)
- [J17] **Yufeng Zheng***, Daniel Huber, Hamish L. Fraser, Investigation of a Nano-scale, Incommensurate, Modulated Domain in a Ti-Fe Alloy, *Scripta Materialia*, 154 (2018) 220-224. DOI: [10.1016/j.scriptamat.2018.06.010](https://doi.org/10.1016/j.scriptamat.2018.06.010)
- [J16] Bharat Gwalani, Stephane Gorsse, Deep Choudhuri, Mark Styles, **Yufeng Zheng**, Rajiv S. Mishra and Rajarshi Banerjee, Modifying Transformation Pathways in High Entropy Alloys or Complex Concentrated Alloys via Thermo-Mechanical Processing, *Acta Materialia*, 153 (2018) 169-185. DOI: [10.1016/j.actamat.2018.05.009](https://doi.org/10.1016/j.actamat.2018.05.009)
- [J15] **Yufeng Zheng***, Talukder Alam, Rajarshi Banerjee, Dipankar Banerjee and Hamish L. Fraser, The Influence of Aluminum and Oxygen Additions on Intrinsic Structural Instabilities in Titanium-Molybdenum Alloys, *Scripta Materialia*, 152 (2018) 150-153. DOI: [10.1016/j.scriptamat.2018.04.030](https://doi.org/10.1016/j.scriptamat.2018.04.030)
- [J14] **Yufeng Zheng**, Robert E.A. Williams, Gopal B. Viswanathan, William A. T. Clark and Hamish L. Fraser, Determination of the Structure of α - β Interfaces in Metastable β -Ti Alloys, *Acta Materialia*, 150 (2018) 25-39. DOI: [10.1016/j.actamat.2018.03.003](https://doi.org/10.1016/j.actamat.2018.03.003)
- [J13] Deep Choudhuri, Srinivasan G. Srivilliputhur, Mark A. Gibson, **Yufeng Zheng**, David L. Jaeger, Hamish L. Fraser and Rajarshi Banerjee, Localized Bond Stiffening Causes 600% Increase in Creep Life of Magnesium Alloys, *Nature Communication*, 8(2017) 2000. DOI: [10.1038/s41467-017-02112-z](https://doi.org/10.1038/s41467-017-02112-z)
- [J12] Deep Choudhuri, **Yufeng Zheng**, Talukder Alam, Rongpei Shi, Mandana Hendrickson, Srikumar Banerjee, Yunzhi Wang, Srinivasan G. Srivilliputhur, Hamish L. Fraser and Rajarshi Banerjee, Coupled Experimental and Computational Investigation of Omega Phase Evolution in a High Misfit Titanium-Vanadium Alloy, *Acta Materialia*, 130 (2017) 215-228. DOI: [10.1016/j.actamat.2017.03.047](https://doi.org/10.1016/j.actamat.2017.03.047)
- [J11] **Yufeng Zheng**, Deep Choudhuri, Talukder Alam, Robert E.A. Williams, Rajarshi Banerjee and Hamish L. Fraser, The Role of Cuboidal ω Precipitates on α Precipitation in a Ti-20V Alloy, *Scripta Materialia*, 123 (2016) 81-85. DOI: [10.1016/j.scriptamat.2016.06.004](https://doi.org/10.1016/j.scriptamat.2016.06.004)
- [J10] **Yufeng Zheng***, John M. Sosa and Hamish L. Fraser, On the Influence of Athermal ω and α Phase Instabilities on the Scale of Precipitation of the α Phase in Metastable β -Ti Alloys, *JOM*, 68(5) 1343-1349. DOI: [10.1007/s11837-016-1860-y](https://doi.org/10.1007/s11837-016-1860-y)
- [J9] **Yufeng Zheng**, Dipankar Banerjee and Hamish L. Fraser, A Nano-scale Instability in the β Phase of Dilute Ti-Mo Alloys, *Scripta Materialia*, 116 (2016) 131-134. DOI: [10.1016/j.scriptamat.2016.01.044](https://doi.org/10.1016/j.scriptamat.2016.01.044)
- [J8] **Yufeng Zheng**, Robert E.A. Williams, Soumya Nag, Rajarshi Banerjee, Hamish L. Fraser and Dipankar Banerjee, The Effect of Alloy Composition on Instabilities in β Phase of Titanium Alloys, *Scripta Materialia*, 116 (2016) 49-52. DOI: [10.1016/j.scriptamat.2016.01.024](https://doi.org/10.1016/j.scriptamat.2016.01.024)
- [J7] **Yufeng Zheng**, Robert E.A. Williams, Dong Wang, Rongpei Shi, Soumya Nag, Pavani Kami, John M. Sosa, Rajarshi Banerjee, Yunzhi Wang and Hamish L. Fraser, Role of ω Phase in the Formation of Extremely

Refined Intragranular α Precipitates in Metastable β -Titanium Alloys, *Acta Materialia*, 103 (2016) 850-858. DOI: [10.1016/j.actamat.2015.11.020](https://doi.org/10.1016/j.actamat.2015.11.020)

[J6] **Yufeng Zheng**, Robert E.A. Williams and Hamish L. Fraser, Characterization of a Previously Unidentified Ordered Orthorhombic Metastable Phase in Ti-5Al-5Mo-5V-3Cr, *Scripta Materialia*, 113 (2016) 202-205. DOI: [10.1016/j.scriptamat.2015.10.037](https://doi.org/10.1016/j.scriptamat.2015.10.037)

[J5] **Yufeng Zheng**, Robert E.A. Williams, John M. Sosa, Talukder Alam, Yunzhi Wang, Rajarshi Banerjee and Hamish L. Fraser, The Indirect Influence of the ω Phase on the Degree of Refinement of Distributions of the α Phase in Metastable β -Titanium Alloys, *Acta Materialia*, 103 (2016) 165-173. DOI: [10.1016/j.actamat.2015.09.053](https://doi.org/10.1016/j.actamat.2015.09.053)

[J4] **Yufeng Zheng**, John M. Sosa, Robert E.A. Williams, Yunzhi Wang, Rajarshi Banerjee, Hamish L. Fraser, The Role of Omega Phase in Non-Classical Homogeneous Precipitation in Titanium Alloys, *Scripta Materialia* 111 (2016) 81-84. DOI: [10.1016/j.scriptamat.2015.08.019](https://doi.org/10.1016/j.scriptamat.2015.08.019)

[J3] Dong Wang, Rongpei Shi, **Yufeng Zheng**, Rajarshi Banerjee, Hamish L. Fraser and Yunzhi Wang, Integrated Computational Materials Engineering (ICME) Approach to Design of Novel Microstructures for Ti-Alloys, *JOM*, 66 (7) 1287-1298. DOI: [10.1007/s11837-014-1011-2](https://doi.org/10.1007/s11837-014-1011-2)

[J2] Andrew Boyne, Dong Wang, Rongpei Shi, **Yufeng Zheng**, Amit Behera, Soumya Nag, James S. Tiley, Hamish L. Fraser, Rajarshi Banerjee and Yunzhi Wang, Pseudospinodal Mechanism for fine α/β Microstructure in β -Ti Alloys, *Acta Materialia*, 64 (2014) 188-197. DOI: [10.1016/j.actamat.2013.10.026](https://doi.org/10.1016/j.actamat.2013.10.026)

[J1] Soumya Nag, **Yufeng Zheng**, Robert E.A. Williams, Arun Devaraj, Andrew Boyne, Yunzhi Wang, Pete C. Collins, Gopal B. Viswanathan, James S. Tiley, Barry C. Muddle, Rajarshi Banerjee and Hamish L. Fraser, Non-classical Homogeneous Precipitation Mediated by Compositional Fluctuation in Titanium Alloys, *Acta Materialia*, 60 (2012) 6247-6256. DOI: [10.1016/j.actamat.2012.07.033](https://doi.org/10.1016/j.actamat.2012.07.033)

Conference Proceedings (* as corresponding author; + student supervised)

[C16] Fan Lu, Longfei Li, Stoichko Antonov, **Yufeng Zheng**, Hamish L. Fraser, Dong Wang, Jian Zhang, Qiang Feng, Effect of Re on Long-term Creep Behaviors of Nickel-based Single Crystal Superalloys for Industry Gas Turbine Application, *Proceedings for The 14th International Symposium on Superalloys (Superalloys 2021)*, 218-227, DOI: [10.1007/978-3-030-51834-9_21](https://doi.org/10.1007/978-3-030-51834-9_21)

[C15] **Yufeng Zheng***, Stoichko Antonov, Hamish L. Fraser, Exploration of Novel Ordering Mechanism in Titanium Alloys Using Atom Probe Tomography and Aberration-corrected Scanning Transmission Electron Microscopy, *Proceedings for Microscopy & Microanalysis 2020*, DOI: [10.1017/S143192762002036X](https://doi.org/10.1017/S143192762002036X)

[C14] **Yufeng Zheng***, Dong Wang, Yunzhi Wang, Rajarshi Banerjee, Dipankar Banerjee, Hamish L. Fraser, Exploration of Nano-scale Structural Instabilities in Metastable Beta Titanium Alloys Using Advanced Electron Microscopy, *Proceedings of The 14th World Conference on Titanium*, MATEC Web Conf. 321 (2020) 12001. DOI: [10.1051/mateconf/202032112001](https://doi.org/10.1051/mateconf/202032112001)

[C13] **Yufeng Zheng**, Rajarshi Banerjee, Hamish L. Fraser, Exploration of Novel Nano-scale Instabilities in Metastable Beta Titanium Alloys Using Transmission Electron Microscopy and Aberration-Corrected Scanning Transmission Electron Microscopy, *Microscopy & Microanalysis 2019*, 25(2019), 2276-2277

[C12] **Yufeng Zheng**, Talukder Alam, Rajarshi Banerjee, Hamish L. Fraser, Investigation of Novel Phase Transformation Mechanism in Titanium Alloys Using Atom Probe and Aberration-Corrected Scanning Transmission Electron Microscope, *Microscopy & Microanalysis 2017*, 23 (Suppl 1) 2017, 730-731

[C11] **Yufeng Zheng**, Robert E.A. Williams, William A.T. Clark, Hamish L. Fraser, Characterization of Alpha/Beta Interface Structure in a Titanium Alloy Using Aberration-Corrected Scanning Transmission Electron Microscope, *Microscopy & Microanalysis 2016*, 22(2016), 1974-1975

[C10] **Yufeng Zheng**, Robert E.A. Williams, Hamish L. Fraser, Characterization of Nano-scale Instabilities in Titanium Alloys Using Aberration-Corrected Scanning Transmission Electron Microscope, *Microscopy & Microanalysis 2016*, 22(2016), 1270-1271

[C9] **Yufeng Zheng**, John M. Sosa, Robert E.A. Williams, Yunzhi Wang, Rajarshi Banerjee, Hamish L. Fraser, Development of Ultrafine Microstructures in a Metastable Beta Titanium Alloy, *Proceedings of The 13th World Conference on Titanium*, 523-528

[C8] **Yufeng Zheng**, Talukder Alam, Robert E.A. Williams, Soumya Nag, Rajarshi Banerjee, Hamish L. Fraser, Structural and Compositional Characteristics of Isothermal Omega Phase in Beta Titanium Alloys, *Proceedings of The 13th World Conference on Titanium*, 559-564

[C7] **Yufeng Zheng**, Robert E.A. Williams, Gopal B. Viswanathan, William A.T. Clark, Hamish L. Fraser, Investigation of alpha/beta Interface Structure in Titanium Alloy using HRSTEM, *Proceedings of The 13th World Conference on Titanium*, 419-424

[C6] Deep Choudhuri, Talukder Alam, **Yufeng Zheng**, Rongpei Shi, Yunzhi Wang, Hamish L. Fraser, Rajarshi Banerjee, Morphological and Compositional Evolution of Omega Precipitates and Its Consequent Influence on Alpha Precipitation in Ti-V Alloys, *Proceedings of The 13th World Conference on Titanium*, 535-538

[C5] Rongpei Shi, **Yufeng Zheng**, Dong Wang, Hamish L. Fraser, Yunzhi Wang, Heterogeneous Nucleation during beta to alpha plus beta Transformation in Titanium Alloys, *Proceedings of The 13th World Conference on Titanium*, 1931-1936

[C4] **Yufeng Zheng**, Robert E.A. Williams, Hamish L. Fraser, Characterization of Various Interfaces Structure in a Titanium Alloy Using Aberration-Corrected Scanning Transmission Electron Microscope, *Microscopy & Microanalysis 2015*, 21 (2015), 1517-1518

[C3] **Yufeng Zheng**, Robert E.A. Williams, Deep Choudhuri, Talukder Alam, Rajarshi Banerjee, Deep Banerjee, Hamish L. Fraser, On the Mechanism of Nucleation and Growth of Omega Phase in Beta Titanium Alloys, *Proceedings of the International Conference on Solid-Solid Phase Transformations in Inorganic Materials 2015*, 475-476

[C2] **Yufeng Zheng**, Robert E.A. Williams, Rongpei Shi, Yipeng Gao, Dong Wang, Soumya Nag, Yunzhi Wang, Rajarshi Banerjee, Hamish L. Fraser, Integrated Experimental and Computational Studies of Non-conventional Transformation Pathways in Titanium Alloys, *Proceedings of the International Conference on Solid-Solid Phase Transformations in Inorganic Materials 2015*, 663-670

[C1] **Yufeng Zheng**, Robert E.A. Williams, Pavani Kami, Soumya Nag, Rajarshi Banerjee, Hamish L. Fraser, Investigation of Possible Nucleation Mechanisms for Producing an Ultra-Refined Alpha Phase Microstructure in Beta Titanium Alloys Using High-Resolution Electron Microscopy and 3D Atom Probe Tomography, *Microscopy & Microanalysis 2014*, 20 (2014), 960-961

PRESENTATIONS

Invited Seminar & Webinar Presentations

8. Nanostructured Materials Design and Characterization, Department of Mechanical Engineering, University of Nevada Reno, 2020

7. CEMAS Alumni: Where Are They Now, Center for Electron Microscopy and Analysis, The Ohio State University, 2020

6. Role of Advanced Characterization in Novel Materials Design and Advanced Manufacturing, Department of Chemical and Materials Engineering, University of Nevada Reno, 2019

5. Exploration of Nano-scale Instability and its Effect on Microstructural Evolution in Titanium Alloys using Advanced Characterization Technique and Computational Simulation, Department of Materials Science and Engineering, University of Tennessee Knoxville, 2018
4. Integrated Experimental and Computational Studies of Non-conventional Transformation Pathways in Titanium Alloys—A Successful ICME Story, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 2017
3. Exploration of Nano-scale Instability and Its Effect on Phase Transformation in Titanium Alloys Using Advanced Characterization Techniques, Institute of Metal Research, Chinese Academy of Science, 2017
2. Nucleation Mechanism of Refined α Microstructure in β -Titanium Alloys, Institute of Metal Research, Chinese Academy of Science, 2013
1. Nucleation Mechanism of Refined α Microstructure in β -Titanium Alloys, Department of Materials Science and Engineering, Xi'an Jiaotong University, 2013

Conference Plenary Presentations (* as speaker, + student supervised)

1. **Yufeng Zheng***, Robert E.A. Williams, Rongpei Shi, Yipeng Gao, Dong Wang, Soumya Nag, Yunzhi Wang, Rajarshi Banerjee, Hamish L. Fraser, Integrated Experimental and Computational Studies of Non-Conventional Transformation Pathways in Titanium Alloys, *International Conference on Solid-Solid Phase Transformation in Inorganic Materials*, Whistler, BC Canada, 2015 (**Finalist of Aaronson award for excellent young researcher**)

Conference Invited Presentations (* as speaker, + student supervised)

4. **Yufeng Zheng***, Dong Wang, Stoichko Antonov, Dipankar Banerjee, Rajarshi Banerjee, Yunzhi Wang, Hamish L. Fraser, Exploration of Nano-scale Metastable Phases in Metastable Beta Titanium Alloys Using Advanced Electron Microscopy and Atom Probe Tomography, *TMS 2020 Annual Meeting & Exhibition*, San Diego, CA 2020
3. **Yufeng Zheng***, Stoichko Antonov, Qiang Feng, Hamish L. Fraser, Role of Advanced Characterization in Novel Alloys Design, *2019 MRS Fall Meeting*, Boston, MA 2019
2. **Yufeng Zheng***, Rajarshi Banerjee, Dipankar Banerjee, Hamish L. Fraser, Investigation of Nano-scale Instabilities in Beta Titanium Alloys, *MS&T 17*, Pittsburgh, PA 2017
1. **Yufeng Zheng***, Robert E.A. Williams, Dong Wang, Rongpei Shi, Yipeng Gao, Pavani Kami, Soumya Nag, Yunzhi Wang, Rajarshi Banerjee and Hamish L. Fraser, Super-refined Alpha Microstructure in Beta Titanium Alloys, *TMS 2015 Annual Meeting & Exhibition*, Orlando, FL 2015

Conference Contributed Presentations (* speaker, + student supervised)

25. Dian Li⁺, Wenrui Zhao⁺, Stoichko Antonov, Dong Wang, Yipeng Gao, Yunzhi Wang, Hamish L. Fraser, **Yufeng Zheng***, Hierarchical Twinning Microstructure in a Multi-functional Beta Titanium Alloy, *TMS 2021 Virtual Meeting*
24. Dian Li⁺, Rongpei Shi, Rajarshi Banerjee, Yunzhi Wang, Hamish L. Fraser, **Yufeng Zheng***, Tuning Fine-scale Alpha Microstructures via Nano-scale Structural and Compositional Non-uniformities in Beta Titanium Alloys, *TMS 2021 Virtual Meeting*
23. Stoichko Antonov, Zachary Kloenne, Dian Li⁺, Xing Zhang, Yiliang Liao, Hamish L. Fraser, **Yufeng Zheng***, Microstructure Engineering in Metastable Beta Titanium Alloy, *MS&T2020 Virtual Meeting*
22. **Yufeng Zheng***, Stoichko Antonov, Hamish L. Fraser, Exploration of Novel Nano-scaled Ordering in Titanium Alloys Using Atom Probe Tomography and Aberration-corrected Scanning Transmission Electron Microscopy, *Microscopy & Microanalysis 2020 Virtual Meeting*

21. **Yufeng Zheng***, Qianglong Liang, Dong Wang, Yunzhi Wang, Rajarshi Banerjee, Dipankar Banerjee, Hamish L. Fraser, Exploration of Nano-scale Structural Instabilities in Metastable Beta Titanium Alloys Using Advanced Electron Microscopy, *Ti-2019: The 14th World Conference on Titanium*, Nantes, France 2019
20. **Yufeng Zheng***, Rajarshi Banerjee, Dipankar Banerjee and Hamish L. Fraser, Shuffle Dominant Phase Transformation in Metastable Beta Titanium Alloys, *TMS 2019 Annual Meeting & Exhibition*, San Antonio, TX 2019
19. **Yufeng Zheng***, William Clark and Hamish L. Fraser, Investigation of Alpha/Beta Interface Structure in a Metastable Beta Titanium Alloy, *MS&T 18*, Columbus, OH 2018
18. **Yufeng Zheng***, Rajarshi Banerjee, Dipankar Banerjee, Hamish L. Fraser, Nano-scale Instabilities in Beta Titanium Alloys, *TMS 2018 Annual Meeting & Exhibition*, Phoenix, AZ 2018
17. **Yufeng Zheng***, Rongpei Shi, Deep Choudhuri, Talukder Alam, Robert E.A. Williams, Rajarshi Banerjee, Yunzhi Wang, Hamish L. Fraser, Integrated Experimental and Computational Studies of Non-conventional Transformation Pathways in Titanium Alloys, *4th World Congress on Integrated Computational Materials Engineering (ICME 2017)*, Ypsilanti, Michigan, 2017
16. **Yufeng Zheng***, Robert E.A. Williams, Rongpei Shi, Deep Choudhuri, Talukder Alam, Rajarshi Banerjee, Yunzhi Wang, Hamish L. Fraser, Development of Various Scale Alpha Microstructures in Titanium Alloys, *TMS 2017 Annual Meeting & Exhibition*, San Diego, CA 2017
15. **Yufeng Zheng***, Robert E.A. Williams, William Clark and Hamish L. Fraser, Investigation of Alpha/Beta Interface Structure in a Titanium Alloy Using Aberration-Corrected Scanning Transmission Electron Microscope, *TMS 2017 Annual Meeting & Exhibition*, San Diego, CA 2017
14. **Yufeng Zheng***, Robert E.A. Williams, Rajarshi Banerjee, Dipankar Banerjee and Hamish L. Fraser, Investigation of Nano-scale Instabilities in Titanium Alloys, *TMS 2017 Annual Meeting & Exhibition*, San Diego, CA 2017
13. **Yufeng Zheng***, Robert E.A. Williams, William A.T. Clark, Hamish L. Fraser, Characterization of Alpha/Beta Interface Structure in a Titanium Alloy Using Aberration-Corrected Scanning Transmission Electron Microscope, *Microscopy & Microanalysis 2016 Meeting*, Columbus, OH 2016
12. **Yufeng Zheng***, Robert E.A. Williams, Talukder Alam, Deep Choudhuri, Rongpei Shi, Niraj Gupta, Srinivasan Srivilliputhur, Yunzhi Wang, Rajarshi Banerjee, Hamish L. Fraser, Integrated Experimental and Computational Investigation of Omega Phase and Omega Phase Assisted Super-refined Alpha Precipitation, *TMS 2016 Annual Meeting & Exhibition*, Nashville, TN 2016
11. **Yufeng Zheng***, Robert E.A. Williams, Gopal B. Viswanathan, William A.T. Clark, Hamish L. Fraser, Investigation of alpha/beta Interface Structure in Titanium Alloy using HRSTEM, *Ti-2015: The 13th World Conference on Titanium*, San Diego, CA 2015
10. Robert E.A. Williams, **Yufeng Zheng***, Deep Choudhuri, Talukder Alam, Rajarshi Banerjee, Dipankar Banerjee, Hamish L. Fraser, On the Mechanism of Nucleation and Growth of Omega Phase in Beta Titanium Alloys, *International Conference on Solid-Solid Phase Transformation in Inorganic Materials*, Whistler, BC Canada, 2015
9. **Yufeng Zheng***, Robert E.A. Williams, Deep Choudhuri, Talukder Alam, Rajarshi Banerjee, Hamish L. Fraser, The Study of Structural and Compositional Characteristics of ω Phase in β Titanium Alloys, *TMS 2015 Annual Meeting & Exhibition*, Orlando, FL 2015
8. **Yufeng Zheng***, Robert E.A. Williams, Pavani Kami, Soumya Nag, Rajarshi Banerjee and Hamish L. Fraser, Investigation of Nucleation Mechanism of Super-refined α Microstructure in β -Ti Alloys Using

Advanced Electron Microscopy and 3D Atom Probe, *Microscopy & Microanalysis 2014 Meeting*, Hartford, CT 2014

7. **Yufeng Zheng***, Robert E.A. Williams, Pavani Kami, Soumya Nag, Yipeng Gao, Dong Wang, Rongpei Shi, Yunzhi Wang, Rajarshi Banerjee and Hamish L. Fraser, Nucleation Mechanism of Super-refined α Microstructure in Beta Titanium Alloys, *TMS 2014 Annual Meeting & Exhibition*, San Diego, CA 2014

6. **Yufeng Zheng***, Robert E.A. Williams, Soumya Nag, Rajarshi Banerjee and Hamish L. Fraser, Microstructural Evolution in Ti-5Al-5Mo-5V-3Cr during Continuous Heating, *TMS 2013 Annual Meeting & Exhibition*, San Antonio, TX 2013

5. **Yufeng Zheng***, Robert E.A. Williams and Hamish L. Fraser, Microstructural Evolution in Ti-5Al-5Mo-5V-3Cr during Continuous Heating, *MS&T 12*, Pittsburgh, PA 2012

4. **Yufeng Zheng***, Robert E.A. Williams, Rongpei Shi, Yunzhi Wang and Hamish L. Fraser, Morphological, Structural and Compositional Evolution during the Decomposition of Martensite in Ti-2wt%Mo, *TMS 2012 Annual Meeting & Exhibition*, Orlando, FL 2012

3. **Yufeng Zheng***, Robert E.A. Williams, Hamish L. Fraser, The Study of Phase Transformation in Beta Titanium Alloys Using Electrical Resistivity Measurement, Image Processing Technique and Electron Microscopy, *TMS 2012 Annual Meeting & Exhibition*, Orlando, FL 2012

2. **Yufeng Zheng***, Robert E.A. Williams, Boian Alexandrov and Hamish L. Fraser, Phase Transformation Identification in Beta Titanium Alloys Using ETMT and SSDTA, *MS&T 11*, Columbus, OH 2011

1. **Yufeng Zheng***, Robert E.A. Williams, Boian Alexandrov, John Lippold and Hamish L. Fraser, Phase Transformation Identification in β Titanium Alloys Using ETMT, Gleeble and SSDTA, *TMS 2011 Annual Meeting & Exhibition*, San Diego, CA 2011

Conference Posters (+ student supervised)

5. Dian Li⁺, Xing Zhang, Yiliang Liao, **Yufeng Zheng**, Exploration of Non-conventional Microstructural Evolution using Machine Learning, *TMS 2021 Virtual Meeting*

4. Dian Li⁺, Xing Zhang, Yiliang Liao, Stoichko Antonov, **Yufeng Zheng**, Refining Alpha Microstructure via Dual-phase Interface and Twin Boundary in Beta Titanium Alloys, *MS&T2020 Virtual Meeting*

3. **Yufeng Zheng***, Talukder Alam, Rajarshi Banerjee, Hamish L. Fraser, Investigation of Novel Phase Transformation Mechanism in Titanium Alloys Using Atom Probe and Aberration-Corrected Scanning Transmission Electron Microscope, *Microscopy & Microanalysis 2017 Meeting*, St Louis, MO 2017

2. **Yufeng Zheng***, Robert E.A. Williams, Hamish L. Fraser, "Characterization of Nano-scale Instabilities in Titanium Alloys Using Aberration-Corrected Scanning Transmission Electron Microscope", *Microscopy & Microanalysis 2016 Meeting*, Columbus, OH 2016

1. **Yufeng Zheng***, Robert E.A. Williams, Rongpei Shi, Rajarshi Banerjee, Yunzhi Wang, Hamish L. Fraser, "Non-conventional Transformation Pathway in Titanium Alloys", Physical Metallurgy, Gordon Research Conference, University of New England in Biddeford ME USA, 2015

TEACHING CERTIFICATE

- **Certificate in Effective Instruction** Association of College and University Educators, 2020

TEACHING EXPERIENCE

At University of Nevada Reno

- **Lecturer**
 - MSE710 Electron Microscopy Spring 2020
 - MSE415/615 Materials Characterization Fall 2020

- MSE495/695 (420/620) Special Topic (Ferrous and Non-ferrous Alloys) Spring 2021
- **Advisor**
 - Ph.D. Students
 - Dian Li Summer 2020-Present
 - Junfeng Xiao Fall 2020-Present
 - Wenrui Zhao Spring 2021-Present
 - B.S. Students
 - Noah Meyer Nevada Undergraduate Research Award (NURA) Fall 2020
 - Holly Merrill Nevada Undergraduate Research Award (NURA) Fall 2020- Spring 2021
- **Committee**
 - **Master Dissertation Committee Member**
 - M Nabil Bhuiyan Spring 2021
 - Rebecca Nealis Fall 2020
 - **Ph.D. Comprehensive Exam Committee Member**
 - Cayla Harvey Fall 2020
 - Wenye Ye Fall 2020
 - Yang Yang Spring 2020
 - Madhura Hulyalkar Fall 2019

At Ohio State University

- **Mentor**
 - Qianglong Liang, visiting Ph.D. student Nov. 2017- July 2019
- **Grader:** Non-ferrous Physical Metallurgy Fall 2012 & 2013
- **Guest lecturer:** Introduction to Materials Science Fall 2010 & 2011
- **Teaching Assistant:** Undergraduate Lab Class Fall 2008 & Spring 2009

OUTREACH ACTIVITIES

- **UNR College of Engineering Summer Camp for K-12 Students**
 - UNR College of Engineering Virtual Summer Camp
Nano World in Materials Summer 2020

UNIVERSITY SERVICE

- **Department Committee Member**
 - CME Department Differential Fees Committee Jan. 2021- Present
- **Student Chapter Advisor**
 - UNR Materials Advantage Student Chapter Advisor May 2020- Present
- **Invited Panel Reviewer**
 - Nevada Undergraduate Research Award (NURA) Spring 2020
- **Invited Judge**
 - UNR 2020 Outstanding Graduating Graduate Student Award Fall 2020
 - MSE Senior Design Presentation Fall 2019
- **Student Academic Advisor**
 - Undergraduate Students in Materials Science & Engineering at UNR Fall 2020- Present

PROFESSIONAL SERVICE and AFFILIATION

- **Invited Panel and Proposal Reviewers**
 - FY 2021 CINR Full Application Technical Review Mar. 2021
 - Oak Ridge Associated Universities Ralph E. Powe Junior Faculty Award Review Mar. 2021
 - FY 2021 CINR Pre-Application Technical Review Nov. 2020
- **Professional Society Membership**
 - The Minerals, Metals & Materials Society (TMS) 2011 - Present
 - Microscopy Society of America (MSA) 2014- Present
 - Materials Research Society (MRS) 2019-Present
 - The American Ceramic Society (ACerS) 2020-Present
 - Association for Iron & Steel Technology (AIST) 2020-Present

- American Society for Metals (ASM International) 2020-Present
- **Technical Committee**
 - Vice Chair Titanium Committee, Structural Materials Division, TMS 2021-Present
 - Secretary Titanium Committee, Structural Materials Division, TMS 2019-2020
 - Member Titanium Committee, Structural Materials Division, TMS 2017-Present
 - Member Phase Transformations Committee, Materials Processing & Manufacturing Division, TMS 2017-Present
 - Member Additive Manufacturing Committee, Extraction & Processing Division, TMS 2020-Present
 - Member Young Professionals Committee, TMS 2020-Present
- **Conference Symposium Organizer**
 - MS&T Conference 2022
 - Processing-Microstructure-Property Relationships of Titanium and Titanium Alloys (leading organizer)
 - TMS Annual Meeting 2022
 - Advances in Titanium Technology (leading organizer)
 - MS&T Conference 2021
 - Processing-Microstructure-Property Relationships of Titanium and Titanium Alloys (leading organizer)
 - Light Metal Technology
 - TMS Annual Meeting 2021
 - Defect and Phase Transformation Pathway Engineering for Desired Microstructures (leading organizer)
 - Advances in Titanium Technology
 - MS&T Conference 2020
 - Interfaces and Phase Transformations
 - Additive Manufacturing: Microstructure and Materials Properties of Titanium-based Materials
 - TMS Annual Meeting 2020
 - Phase Transformations and Microstructural Evolution (leading organizer)
 - Purveyors of Processing Science and ICME: A SMD Symposium to Honor the Many Contributions of Taylan Altan, Wei Tsu Wu, Soo-Ik Oh, and Lee Semiatin
 - TMS Annual Meeting 2019
 - Phase Transformations and Microstructural Evolution
 - MS&T Conference 2018
 - Composition-Processing-Microstructure-Property Relationships of Titanium Alloys
 - TMS Annual Meeting 2018
 - Phase Transformations and Microstructural Evolution
 - MS&T Conference 2017
 - Phase Transformations and Microstructural Evolution in Ti and Its Alloys
- **Conference Session Chair**
 - TMS Annual Meeting 2021
 - Defect and Phase Transformation Pathway Engineering for Desired Microstructures Session: Experiment and Characterization
 - Advances in Titanium Technology Session: Phase Transformation and Deformation in Titanium Alloys
 - MS&T Conference 2020
 - Interfaces and Phase Transformations Session: Interface and Phase Transformations I
 - Additive Manufacturing: Microstructure and Materials Properties of Titanium-based Materials Session: Titanium Alloy Microstructure and Properties

- TMS Annual Meeting 2020
 - Symposium: Phase Transformations and Microstructural Evolution
Session: Phase Transformations in Non-ferrous Alloys
- MS&T Conference 2019
 - Symposium: Light Metal Technology
Session: Light Metal Technology- Aluminum
- TMS Annual Meeting 2019
 - Symposium: Phase Transformations and Microstructural Evolution
Session: Phase Transformations in Non-ferrous Alloys I
- MS&T Conference 2018
 - Symposium: Composition-Processing-Microstructure-Property Relationships of Titanium Alloys
Session: Phase Transformations & Alloy Design
- TMS Annual Meeting 2018
 - Symposium: Phase Transformations and Microstructural Evolution
Session: Phase Transformation in Titanium II
- MS&T Conference 2017
 - Symposium: Phase Transformations and Microstructural Evolution in Ti and Its Alloys
Session: Experiments
- TMS Annual Meeting 2017
 - Symposium: Phase Transformations and Microstructural Evolution
Session: Steels, Shape Memory, and General
- Ti-2015: The 13th World Conference on Titanium
 - Symposium: Alloy Composition-Microstructure-Properties
Session: Alloy Composition-Microstructure-Properties: General Topics in Titanium III
- **Journal Guest Editor**
 - JOM
 - Defect and Phase Transformation Pathway Engineering for Desired Microstructures (leading guest editor) Aug. 2021
 - Processing-Microstructure-Property Relationships in Additive Manufacturing of Ti-alloys Jun. 2021
 - Composition-Processing-Microstructure-Property Relationships of Titanium Alloys Part II Oct. 2019
 - Composition-Processing-Microstructure-Property Relationships of Titanium Alloys Part I Aug. 2019
- **Journal Referee**
 Serve as invited manuscript reviewer for more than 20 journals in the area of materials science and engineering, materials characterization and advanced manufacturing, including:

<ul style="list-style-type: none"> ▪ Acta Materialia ▪ Scripta Materialia (Outstanding reviewer award) ▪ Materialia ▪ Materials Research Letter ▪ Metallurgical and Materials Transactions A ▪ JOM, Journal of Alloys and Compounds ▪ Materials Characterization ▪ International Journal of Plasticity ▪ Journal of Manufacturing Science and Engineering ▪ Journal of Materials Science ▪ Materials & Design 	<ul style="list-style-type: none"> ▪ Philosophical Magazine Letters ▪ Journal of Applied Crystallography ▪ Journal of Vacuum Science and Technology ▪ Journal of Optics and Laser Technology ▪ Journal of Materials Science & Technology ▪ International Journal of Lightweight Materials and Manufacture ▪ Transactions of Nonferrous Metals Society of China ▪ Materials for Mechanical Engineering ▪ Rare Metal Materials and Engineering
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- **Conference Proceeding Reviewer**
 - *The 8th International Conference on Solid-Solid Phase Transformations in Inorganic Materials*