

CHANGNING NIU

Ohio State University
2041 N. College Rd.
Columbus, OH 43210

Phone: (919) 701-2648
Email: changning.niu@gmail.com
Website: <http://cniu.me>

RESEARCH INTERESTS

First-principles atomistic modeling of solid-state materials, thermodynamic properties of materials, kinetic properties of materials.

PROFESSIONAL EXPERIENCE

2015– **Postdoctoral Researcher**, Ohio State University, Columbus, OH, USA
Materials Science and Engineering (Advisor: Maryam Ghazisaeidi)

EDUCATION

2015 **Ph.D.**, North Carolina State University, Raleigh, NC, USA
Materials Science and Engineering (Advisor: Douglas L. Irving)
2011 **B.Sc.**, University of Science and Technology Beijing, Beijing, China
Materials Physics (Minor: Information and Computational Science)

PEER-REVIEWED PUBLICATIONS

- | | |
|------|--|
| 2016 | A. J. Zaddach, C. Niu , A. A. Oni, M. Fan, J. M. LeBeau, D. L. Irving, and C. C. Koch. Structure and magnetic properties of a multi-principal element Ni–Fe–Cr–Co–Zn–Mn alloy. <i>Intermetallics</i> , 68:107–112, Jan. 2016 |
| | C. Niu , A. J. Zaddach, C. C. Koch, and D. L. Irving. First principles exploration of near-equiatomic NiFeCrCo high entropy alloys. <i>Journal of Alloys and Compounds</i> , 672: 510–520, July 2016 |
| 2015 | C. Niu , A. J. Zaddach, A. A. Oni, X. Sang, J. W. Hurt III, J. M. LeBeau, C. C. Koch, and D. L. Irving. Spin-driven ordering of Cr in the equiatomic high entropy alloy NiFeCrCo. <i>Appl. Phys. Lett.</i> , 106(16):161906, Apr. 2015 |
| | X. Sang, E. D. Grimley, C. Niu , D. L. Irving, and J. M. LeBeau. Direct observation of charge mediated lattice distortions in complex oxide solid solutions. <i>Appl. Phys. Lett.</i> , 106(6):061913, Feb. 2015 |
| 2014 | K. M. Youssef, A. J. Zaddach, C. Niu , D. L. Irving, and C. C. Koch. A Novel Low-Density, High-Hardness, High-entropy Alloy with Close-packed Single-phase Nanocrystalline Structures. <i>Mater. Res. Lett.</i> , 3(2):95–99, Dec. 2014 |
| 2013 | A. J. Zaddach, C. Niu , C. C. Koch, and D. L. Irving. Mechanical Properties and Stacking Fault Energies of NiFeCrCoMn High-Entropy Alloy. <i>JOM</i> , 65(12):1780–1789, 2013 |

PRESENTATIONS

Presented Talks

- | | |
|------|---|
| 2015 | C. Niu, A. J. Zaddach, A. A. Oni, X. Sang, J. W. Hurt III, J. M. LeBeau, C. C. Koch, and D. L. Irving. First principles studies of NiFeCrCoMn high entropy alloys. In <i>TMS</i> , Orlando, FL, Mar. 2015 |
| 2014 | C. Niu, A. J. Zaddach, C. C. Koch, and D. L. Irving. First principles simulation of a NiFeCrCoMn high entropy alloy. In <i>TMS</i> , San Diego, CA, Feb. 2014 |

Contributed Talks

- | | |
|------|---|
| 2015 | C. Niu, A. J. Zaddach, A. A. Oni, X. Sang, J. W. Hurt III, J. M. LeBeau, C. C. Koch, and D. L. Irving. Probing the local structure of NiFeCrCo: synthesis, characterization, and simulation. In <i>TMS</i> , Orlando, FL, Mar. 2015 |
| | A. J. Zaddach, K. M. Youssef, C. Niu, D. L. Irving, and C. C. Koch. A low-density, single-phase high entropy alloy produced by mechanical alloying. In <i>TMS</i> , Orlando, FL, Mar. 2015 |
| 2014 | A. J. Zaddach, C. Niu, J. M. LeBeau, C. C. Koch, and D. L. Irving. Low stacking fault energy high entropy alloys. In <i>TMS</i> , San Diego, CA, Feb. 2014 |
| | A. J. Zaddach, C. Niu, K. M. Youssef, D. L. Irving, and C. C. Koch. Stacking fault energies and mechanical properties of fcc high entropy alloys. In <i>TMS</i> , San Diego, CA, Feb. 2014 |
| 2013 | D. L. Irving, C. C. Koch, C. Niu, and A. J. Zaddach. Preparation and simulation of fcc high entropy alloys. In <i>TMS</i> , San Antonio, TX, Mar. 2013 |