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## ■ Education and Work Experience

- 2018.07-Present Associate professor, School of Shagang Iron and Steel, Soochow University, China
- 2014.06-2018.06 Lecturer, School of Shagang Iron and Steel, Soochow University, China
- 2012.02-2014.02 Engineer, Suzhou Nuclear Power Research Institute, China
- 2008.09-2011.12 Ph.D. School of materials science and engineering, Tsinghua University, China
- 2005.09-2008.07 Master, School of materials processing engineering, North University of China, China
- 2004.08-2005.07 Technician, AVIC Changhe aircraft industry (group) corporation LTD, China
- 2000.09-2004.07 Bachelor, School of material processing and control engineering, North University of China, China

## ■ Research Interests

1. Additive manufacturing and control study on the structure and property of heterogeneous metallic material
2. Movable additive manufacturing under constrained environment on opening space
3. Simulation of microstructure and properties under unsteady thermal cycling conditions
4. Combined machining technology of mesoscale fine structure

## ■ Research Projects

1. Technology and equipment of movable additive manufacturing for repairing and remanufacturing, National Key Research and Development Project (2018YFB1105800)
2. Technology and equipment of laser combined additive manufacturing for repairing and remanufacturing, National Key Research and Development Project (2017YFB1103600)
3. Precipitation/growth behaviors and process regulation of M23C6 in laser melting deposition low activation steel, National Natural Science Foundation of China (51701134)

4. Research on high efficiency/high precision multifunctional laser cladding nozzle for laser additive manufacturing, National Key Research and Development Project (2016YFB1100300)
5. Precipitation behaviors and creep properties in laser melting deposition low activation steel based on, regulation of MX phase, Jiangsu Province natural sciences fund subsidization project (BK20150329)
6. Research on key technics and equipment for feeding inside laser in metallic additive-subtractive combined manufacturing, Jiangsu province Key Research and Development Project (BE2015067)
7. Effects of Interface characteristics on the anti-radiation properties of low activation steel. ITER program of Ministry of science and technology (2011GB108006)

## ■ Publications

1. W.J. Jiang, Z.X. Xia\*, J.C. Xu, D. Zhao, S.Q. Xia, L. Wang, *Fusion Eng. Des.* 2020, 157, 111646.
2. Z.X. Xia\*, J.C. Xu, J.J. Shi, T. Shi, C.F. Sun, D. Qiu\*, *Addit. Manuf.* 2020, 33, 101114.
3. Z.X. Xia\*, C.Y. Wang\*, D. Zhao, et al., *Surf. Coat. Technol.* 2019, 367, 108-117.
4. Z.X. Xia\*, C.Y. Wang, Y.F. Zhao, et al., *Acta Metall. Sin. (Engl. Lett.)*, 2015, 28, 1238-1246.
5. Z.X. Xia\*, C. Zhang, X.F. Huang, W.B. Liu, Z.G. Yang. *Scientific Reports*, 2015, 5, 13027.

## ■ Awards

1. Additive repairing and remanufacturing under rail transit site on opening space, China urban rail transit technology innovation and Entrepreneurship Competition, Third prize, 3th, 2019
2. Jiangsu Province high-level Innovative and entrepreneurial talent, Department of Human Resources and Social Security, Jiangsu Province, 2015