

About the translators



Professor Zhuguo Li
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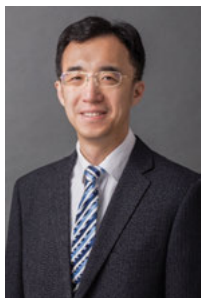
Professor Zhuguo Li has obtained his bachelor degree in welding and automation in 1994 from Shanghai Jiao Tong University, master's degree in welding engineering in 1997 from the same university, and PhD in materials processing science from Osaka University in 2004. Since then, he joined Shanghai Jiao Tong University. He became a full-time professor since 2010 and a distinguished professor since 2020. Now he is the vice dean of School of Materials Science and Engineering, Shanghai Jiao Tong

University, and the director of Shanghai Key Laboratory of Materials Laser Processing and Modification. He also serves as the deputy secretary general of China Welding Society. His research interests include laser welding, laser cladding, and laser additive manufacturing, and he is the coauthor of more than 150 SCI papers published on peer-review journals. He won the first prize of Science and Technology Award from CMES in 2016, and the first prize of Science and Technology Progress Award from Shanghai Municipality in 2015 and 2019.



Jie Dong received his BSc from Northeastern University, Shenyang, China, in 1998, and PhD in materials forming from Northeastern University, China, in 2004. He joined Shanghai Jiao Tong University, Shanghai, China, as a postdoctoral fellow, and then became a lecturer, a vice professor, and a professor. From 2006 to 2007, he served as a visiting scholar with the Research Center of Dresden Rossendorf, Dresden, Germany. He has taught two courses, *Fundamentals of Materials Science and Principles of Materials Processing*, for 10 years. He was voted as the most popular teacher by students three times in the School of Materials Science and Engineering. He focused his research on plastic forming and application study of advanced light alloys. He and his group have developed some high-performance magnesium and aluminum alloys by rare earth alloying

and some large-scale parts by some advantaged forming technology such as subcurrent semicontinuous casting, isothermal hot rolling and forging, differential temperature drawing, and hot spinning. More than 100 parts of high-performance Mg and Al alloys have been applied. He has authored or coauthored over 100 peer-reviewed journal papers and holds over 30 patents, and some of which have been converted into commercial products.



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Qiang Guo is an associate professor at the State Key Lab of Metal Matrix Composites, Shanghai Jiao Tong University (SJTU). He received his BSc degree in microelectronics from Peking University in 2005, and MEng in materials science and engineering from Massachusetts Institute of Technology (MIT) in 2006. He obtained his PhD in advanced materials in 2010 from the National University of Singapore under the

Singapore-MIT Alliance program. From 2010 to 2012, he was a postdoc in the Division of Engineering and Applied Sciences in California Institute of Technology. His current research focus is on the fabrication and mechanical behavior of metal matrix composites. He has been teaching the SJTU undergraduate core module of “Fundamentals of Materials Science and Engineering” since 2014 fall.



Guozhen Zhu, the Canada Research Chair Tier II (in mechanical and functional design of nanostructured materials), now is an assistant professor at the University of Manitoba, Canada. She worked as a research professor from 2014 to 2017 at Shanghai Jiao Tong University, China. She attended Tsinghua University (Beijing) for her undergraduate studies at Materials Science and Engineering (2007) Department and followed her interest in materials science at McMaster University, Canada, where she completed her master's degree in 2009 and her PhD in 2012. She has published 34 papers in prestigious journals such as *Nature*, *J Phys Chem C*, and *Scientific Reports*. She won

national and international awards such as Gerard T. Simon awards from Microscopical Society of Canada and awards from European Microscopy Congress for her research.