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Biography: Prof. Rong Chen, full professor at Huazhong University of Science and Technology with the School of Mechanical Science and Engineering, by courtesy of optical and electronic information, China-EU Institute for clean and renewable energy, and college of future technologies. She received BS from University of Science and Technology of China, MS and Ph.D. from Stanford university. Afterwards, she was a senior researcher in Applied Materials and Intel Labs before she joined HUST. Prof. Chen's research interests focus on atomic level manufacturing, by understanding surface science, and applying this knowledge to a range of problems in sustainable energy, semiconductor processing, and nanotechnology. She has authored and co-authored over 200 journal articles and dozens of conference proceedings, three books and two book chapters. She has been granted over 100 issued Chinese invention patents and more than 10 international patents, has given over 100 invited presentations (including tutorial and plenary talks). She is the recipient of many prestigious national and international awards, including Tencent Xplore award, Science & Technology Award for Young Talents, Qiushi Outstanding Youth Transformation Award, distinguished young investigator of China frontiers of engineer, the first prize of technical invention in Hubei Province, IEEE SMC Distinguished Academic Contribution Award, SRC Simon Karecki award, etc.