


Personal Information

Full name	XinPei Lu	
Current position	Full Professor	
Organization	HuaZhong University of Science and Technology	
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Short Biography

Dr. Lu received the Ph.D. degree in electrical engineering from the Huazhong University of Science and Technology, Wuhan, P.R. China, in 2001. Then he was with the Old Dominion University's Applied Plasma Technology Laboratory as a Research Associate. In 2007, he joined the Huazhong University of Science and Technology, where he is currently a Professor (ChangJiang Scholar) with the College of Electrical and Electronic Engineering. He is the author or co-author of over 120 scientific articles. He holds eight patents. His current research interests include low-temperature plasma sources and their biomedical applications, modeling of low-temperature plasmas, plasma diagnostics, and pulsed power technology. Dr. Lu has served as a Guest Editor for the IEEE TRANSACTIONS ON PLASMA SCIENCE and as a Session Chair at the International Conference on Plasma Science. He was an plenary/invited speaker at more than twenty international conferences, such as the International Conference on Plasma Science, the International Workshop on Microplasmas, and the International Symposium for Plasma Biosciences. Several of his publications are following:

- 1) **X. Lu***, G. Naidis, M. Laroussi, K. Ostrikov, **Guided ionization waves: theory and experiments**, *Physics Reports* 540, 123-166 (2014)
- 2) **X. Lu***, S. Wu, J. Gou, and Y. Pan, **An atmospheric-pressure high-aspect-ratio, cold micro-plasma**, *Sci. Rep.* 4, 7488 (2014)
- 3) Z. Xiong, S. Zhao, X. Mao, **X. Lu***, G. He, G. Yang, M. Chen, M. Ishaq, K. Ostrikov, **Selective neuronal differentiation of neural stem cells induced by nanosecond microplasma agitation**, *Stem Cell Research*. 12, pp387-399 (2014)
- 4) Y. Xian, P. Zhang, **X. Lu***, X. Pei, et al. **From short pulses to short breaks: exotic plasma bullets via residual electron control**, *Scientific Reports*. 3, 01599 (2013)
- 5) X. Pei, **X. Lu***, J. Lium D. Liu, Y. Yang, K. Ostrikov, P. Chu, Y. Pan, **Inactivation of a 25.5 μm Enterococcus faecalis biofilm by a room-temperature, battery-operated, handheld air plasma jet**, *J. Phys. D.* 45, 165205 (2012)
- 6) **X. Lu***, M. Laroussi, V. Puech, **On atmospheric pressure non-equilibrium plasma jets and plasma bullets**, *Plasma Sources Sci. Technol.* 21, 034005 (2012)