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Douyan Wang was born in Beijing, China, on May 18, 1975. She received the B.S., M.S. and Ph.D. degrees from Kumamoto University, Kumamoto, Japan, in 1998, 2000, and 2005 respectively.

She was with Hitachi, Ltd., Ibaraki, Japan, from 2000 to 2002. From 2003 to 2004, she was on sabbatical leave with the Center for Pulsed Power and Power Electronics, Texas Tech University, Lubbock, TX, USA. She was a JSPS Research Fellow from 2003 to 2005. From 2005 to 2007, she was a Research Associate with the 21st Century Center of Excellence Program, Kumamoto University. Since 2007, she has held a tenure-track position as an Assistant Professor of Priority Organization for Innovation and Excellence, and since 2012, she has been a Tenure Associate Professor with Kumamoto University. Since 2015, she has been with the Institute of Pulsed Power Science, Kumamoto University.

Her research interests include generation of nanoseconds pulsed discharge plasma, ozone generation, pollution control in gas phase and liquid phase, application of pulsed electric fields, and plasmas on biological cells.