

Personal resume

Kuan Fang REN

Full professor at Rouen University (France)

Address: UMR 6614/CORIA
CNRS – Université & INSA de Rouen
Av. de l'Université, BP 12
76801 Saint Etienne du Rouvray
France

He obtained his bachelor degree in physics from Shaanxi Normal University and Master of Science in radio physics from Xidian University. He had had 4 year teaching experience in these two universities before joint the mixed research unity "CORIA/UMR 6614" in Rouen University (France) in 1990 as a visiting scholar. From 1991 to 1995, he prepared his PhD thesis in the same research institute. After 5 years contractual researcher, always in the same institute, he obtained in 1998 the permanent position "Maître de Conférences" (equivalent to associate professor) in Rouen University. He got the full professor position in 2008.

His main interests of research can be resumed as: 1). Theoretical research on the interaction of shaped beam and regular shaped particles, 2). Development of optical techniques for measurement of small particles and its application in the fluid mechanics and combustion. 3). Theoretical prediction of radiation pressure and torque exerted on a particle by a shaped beam. 4). Development of a new model – Vectorial Complex Ray Model – for describing the scattering of an object of arbitrary shape and a wave. He has published 77 papers in the scientific journals and 84 communications in national and international conferences. He has developed 6 scientific softwares in his research fields and given more than 20 invited conferences in the universities and research laboratories all around the world. He is now the responsible of a French national project ANR on "In-situ ChAracterization of MIcro and NAno particles systems" (CARMINA) and a Higher-Normandy region project on "Development of supercontinuum laser based diagnostic technique for detection of weak quantity carbon particles in combustion".

He promotes the French-Chinese research collaboration since more than 20 years. Thanks to his active contributions, his university and his institute have established strong relations with several Chinese universities.

He was vice president of the commission of sections 30-60-62 (optics in dilute media, mechanics and energy) at Rouen university. He is now the president of the "conference of the presidents of (more than 20) Associations of Chinese scholars in France", vice president of "Association des Scientifiques et Ingénieurs Chinois En France (ASICEF)" and the president of Xidian University Alumni Association in France (XDUAFA). He is selected as "hundred-talent of Shaanxi" in 2011.