

Xuehao Hu Tel: +32 488989903 **E-mail: david927.physics@gmail.com**

Personal page: <http://www.telecom.fpms.ac.be/umons/member.asp?au=XH>

PERSONAL INFORMATION

Sex: Male Birth date: Dec. 08, 1981
Address: Brussels, Belgium



EXPERIENCE

- 2017.2-now **Postdoc Researcher** at University of Mons, **Belgium**
Task: Fiber sensor manufacturing in polymer optical fibers
- 2008.7-2011.8 **Laser Engineer** at 11th Research Institute of China Electronics Technology Group Corporation, Beijing, **China**
Task: Developing 2 μm pulsed solid state laser pumped by 795 nm laser
Developing 3~5 μm pulsed solid state laser pumped by 2 μm laser with optical parametric oscillator (OPO) technique

EDUCATION

- 2012.10-2017.2 **Doctor's Degree** in design and manufactory of fiber sensors, Electromagnetism and Telecommunication Department, University of Mons, **Belgium**
Thesis within Belgian project collaborated with several academic partners
- 2015.10-2015.12 Visiting researcher at Department of Photonics Engineering, Technical University of **Denmark**
- 2014.5-2014.8 Research assistant at **Hong Kong** Polytechnic University
- 2013.6-2013.6 Visiting researcher at Aston Institute of Photonic Technologies, **UK**
- 2011.10-2012.3 Following Master 2 courses, International track in nanosciences at University Paris 11, **France**
- 2005.9-2008.5 **Master's Degree.** in Quantum Optics, Jilin University, **China**
- 2001.9-2005.7 **Bachelor's Degree** in Optical Information Science and Technology, Jilin University, **China**

SKILLS

- Hands-on experimental expertise in laser integration and adjustment, more than 7 years of experimental working experience in professional optical clean rooms
- Fiber sensor design in different fields (solution refractive index, temperature, deformation, humidity)
- Familiar with Matlab, Origin, Excel, Word, PowerPoint and LaTeX
- Strong environmental adaptability, working and studying experiences in multinational and multicultural environment within groups in China, France, UK, Hong Kong, Denmark and Belgium
- Excellent presenting and writing skills in English and Chinese, good communication skills in French

PERSONALITIES

1. Curiosity, passionate, self-motivated, fast-learning, team player, excellent communication skills, cooperative and strong organization skills.
2. Ready to be relocated and fine with frequent travel.

REFERENCES

Dr. C. Caucheteur

F.R.S.-FNRS Research Associate
Université de Mons
christophe.caucheteur@umons.ac.be
+32 65 37 41 49

Prof. P. Mégret

Full Professor, Head of department
Université de Mons
patrice.megret@umons.ac.be
+32 65 37 41 91

SELECTED ORAL PRESENTATION IN CONFERENCES:

Fiber Optics

- X. Hu, X. Chen, C. Liu, P. Mégret, C. Caucheteur, 'D-shaped Polymer Optical Fiber Bragg Grating for Bend Sensing', OSA Optical Sensors, Boston (USA), 2015.
- X. Hu, L. Zhang, D. Kinet, M. Debliquy, P. Mégret, C. Caucheteur, 'Etched polymer optical fiber Bragg gratings for ethanol vapor sensing', International Conference on Plastic Optical Fibers, Buzios (Brazil), 2013.
- X. Hu, L. Zhang, D. Kinet, M. Debliquy, P. Mégret, C. Caucheteur, 'Study of etched polymer optical fiber Bragg gratings for ethanol vapor sensing', IEEE Photonics Benelux Chapter, Symposium 2013, Eindhoven (NL) 2013.

SELECTED PUBLICATIONS

Fiber Optics

- X. Hu, G. Woyessa, D. Kinet, J. Janting, K. Nielsen, O. Bang, C. Caucheteur, BDK-doped core microstructured PMMA optical fiber for effective Bragg grating photo-inscription, Optics Letters, Vol. 42, Issue 11, pp. 2209-2212, 2017.
- X. Hu, D. Saez-Rodriguez, O. Bang, D. J. Webb, P. Mégret, C. Caucheteur, 'Polarization effects in polymer FBGs: study and use for transverse force sensing', Optics Express, Vol. 23, Issue 4, pp 4581-4590, 2015.
- X. Hu, C.-F. J. Pun, H.-Y. Tam, P. Mégret, C. Caucheteur, 'Tilted Bragg gratings in step-index polymer optical fiber', Optics Letters, Vol. 39, Issue 24, pp. 6835-6838, 2014.
- X. Hu, C.-F. J. Pun, H.-Y. Tam, P. Mégret, C. Caucheteur, 'Highly reflective Bragg gratings in slightly etched step-index polymer optical fiber', Optics Express, Vol. 22, Issue 15, pp. 18807-18817, 2014.

Laser technology

- L. Wei, X. Hu, L. Han, J. Wu, K. Wang, 'Laser diode-dual-end-pumped Tm:YAP laser', Chinese Journal of Lasers, Vol. 38, Issue 5, pp. 33-37, 2011.
- X. Hu, L. Wei, L. Han, K. Wang, 'Tm:YAP laser at 2 μm using laser-diode end pumping', Laser & Infrared, Vol. 40, Issue 5, pp. 488-490, 2010.