

## ***Apl. Prof. Dr. Jeong-Ha You***



### **Current positions**

Senior Scientist, MPI for Plasma Physics, Garching  
Project Leader of WP “Divertor”, EUROfusion Consortium (since 2013)  
Adjunct Professor, University of Ulm (since 2014)

### **Previous position**

Postdoctoral Fellow, Forschungszentrum Jülich

### **Scientific degrees**

PhD in Mechanical Engineering, RWTH Aachen University (1996)  
Habilitation in Materials Science, University of Ulm (2010)

### **Recent research topics**

Design, analysis and technology of plasma-facing components for fusion power plants, mechanics and materials for nuclear fusion technology

### **Awards, honors, memberships**

Borchers Plakette, RWTH Aachen University (1996)  
ULTRA Lecture, Korean Ministry of Science (2009)

### **Publications/Patents (5 most important)**

- **J. H. You**, E. Visca, T. Barrett, **B. Böswirth**, F. Crescenzi, et al., European divertor target concepts for DEMO: Design rationales and high heat flux performance, *Nucl. Mater. Ener.* 16, 1 (2018) [doi:10.1016/j.nme.2018.05.012](https://doi.org/10.1016/j.nme.2018.05.012)
- **J. H. You**, E. Visca, Ch. Bachmann, T. Barrett, F. Crescenzi, et al., European DEMO divertor target: Operational requirements and material-design interface, *Nucl. Mater. Ener.* 9, 171 (2016) [doi:10.1016/j.nme.2016.02.005](https://doi.org/10.1016/j.nme.2016.02.005)
- **J. H. You**, G. Mazzone, E. Visca, Ch. Bachmann, T. Barrett, et al., Conceptual design studies for the European DEMO divertor: Rationale and first results, *Fusion Eng. Des.* 109-111, 1598 (2016) [doi:10.1016/j.fusengdes.2015.11.012](https://doi.org/10.1016/j.fusengdes.2015.11.012)
- **J. Riesch**, J.-Y. Buffière, **T. Höschen**, M. di Michiel, M. Scheel, et al., In-situ synchrotron tomography estimation of toughening effect by semi-ductile fibre reinforcement in a tungsten fibre-reinforced tungsten composite system, *Acta Mater.* 61, 7060 (2013) [doi:10.1016/j.actamat.2013.07.035](https://doi.org/10.1016/j.actamat.2013.07.035)
- **J. Du**, **T. Höschen**, **M. Rasinski**, S. Wurster, W. Grosinger, et al., Feasibility study of a tungsten wire reinforced tungsten matrix composite with ZrO<sub>2</sub> interfacial coatings, *Compos. Sci. Technol.* 70, 1482 (2010) [doi:10.1016/j.compscitech.2010.04.028](https://doi.org/10.1016/j.compscitech.2010.04.028)