

Dr. Takashi Yagi

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Takashi Yagi is a leader of Material Structure and Property Analysis Group, National Metrology Institute of Japan, National Institute of Advanced Industrial Science and Technology (AIST). He received his MS degree in 1999, and Ph.D degree in Engineering in 2002 from Tokyo Institute of Technology, Japan.

He is the author and co-author of more than 80 scientific papers in refereed journals and scientific and technical proceedings papers.

At AIST, he started to work on an ultra-fast heat diffusion measurement called a pulsed light heating thermoreflectance. Based upon the developed technique, he established calibration system of thermal diffusivity for thin films according to ISO 17025. His developed reference material (TiN 700 nm) and certified reference material (Mo 400 nm) of thermal diffusivity and has been internationally distributed.

Now he has been leading two projects dedicated to the control on thermal conductivity for materials and interfaces from the aspect of phonon heat conduction, and the thermal conductivity measurement on materials under extreme high pressures and temperatures to reveal deep Earth science.

Takashi Yagi has received several national and international awards including the 1st annual JMR Paper of the Year Award (Materials Research Society) and twice Best Paper Award of the JSTP (Japan Society of Thermophysical Properties).