

EMPRESS 2 publications 16 Dec 2020

- The NPL portable standard flame: Operating instructions, NPL Report ENG 69, ISSN 1754-2987 <http://eprintspublications.npl.co.uk/8259/> **OPEN ACCESS**
- In situ contactless thermal characterisation and imaging of encapsulated photovoltaic devices using phosphor thermometry, Yameng Cao, George Koutsourakis, Gavin J. M. Sutton, James W. E. Kneller, Sebastian Wood, James C. Blakesley, Fernando A. Castro, Prog Photovolt Res Appl. 2019; 1-9 <https://onlinelibrary.wiley.com/doi/full/10.1002/pip.3142> **OPEN ACCESS**
- An investigation into a calibration scheme for a light pipe based temperature probe, Åge Andreas Falnes Olsen, Helge Mathisen, Sigurd Simonsen, 2018 Meas. Sci. Technol. 29 115004. Highlight: selected as one of the 2018 Highlights of Measurement Science and Technology <https://iopscience.iop.org/article/10.1088/1361-6501/aade6f> **OPEN ACCESS** zenodo <https://doi.org/10.5281/zenodo.3527989>
- Calibration of thermocouples: EURAMET Calibration Guide No. 8 Version 3.0, J.V. Pearce, N. Arifovic, J. Bojkovski, F. Edler, M. de Groot, C. Garcia Izquierdo, M. Kalemci, R. Strnad <https://www.euramet.org/publications-media-centre/calibration-guidelines/> **OPEN ACCESS (GPG)** zenodo <https://zenodo.org/record/3415882#.XcAT7-j7SUK>
- Challenging calculations in practical, traceable contact thermometry, J.V. Pearce, R.L. Rusby, Advanced Mathematical and Computational Tools in Metrology and Testing XI, <https://doi.org/10.1142/11100>, ISBN 978-981-3274-29-7 (January 2019) <https://www.worldscientific.com/worldscibooks/10.1142/11100> **(BOOK)**
- Machine learning applied to retrieval of temperature and concentration distributions from infrared emission measurements, Tao Ren, Michael F. Modest, Alexander Fateev, Gavin Sutton, Weijie Zhao, Florin Rusu, Applied Energy 252 (2019) 113448 <https://www.sciencedirect.com/science/article/pii/S0306261919311225>
- Imaging phosphor thermometry from T = 20 °C to 450 °C using the time-domain intensity ratio technique, G. Sutton, A. Greenen, B. Roebuck, G. Machin, Meas. Sci. Tech. 30 044002 (2019) - Special Issue ICPT2018 <https://iopscience.iop.org/article/10.1088/1361-6501/ab04ea>
- Validation of emission spectroscopy gas temperature measurements using a standard flame traceable to the International Temperature Scale of 1990 (ITS-90), G. Sutton, A. Fateev, Miguel A. Rodriguez-Conejo, Juan Melendez, Guillermo Guarzino, Int. J. Thermophys. 40 99 (2019) <https://doi.org/10.1007/s10765-019-2557-6> **OPEN ACCESS** zenodo <http://doi.org/10.5281/zenodo.3541580>

- 2020 Ared Cezairliyan Best Paper Award of the Int. Journal of Thermophysics, Alexander Fateev (on the behalf of the other Authors: Gavin Sutton, Miguel A. Rodríguez Conejo, Juan Meléndez, Guillermo Guarnizo), “Absolute gas thermometry using IR emission spectroscopy” Awarded to the paper titled: “Validation of Emission Spectroscopy Gas Temperature Measurements Using a Standard Flame Traceable to the International Temperature Scale of 1990 {ITS-90} International Journal of Thermophysics 40:99 (2019)
<https://www.springer.com/journal/10765/updates/18601310> **OPEN ACCESS**