

REVIEW

- 022001 **The revision of the SI—the result of three decades of progress in metrology**
Michael Stock, Richard Davis, Estefanía de Mirandés and Martin J T Milton

SHORT COMMUNICATION

- 022101 **Update: On the synthesis of quantum Hall array resistance standards (2015 *Metrologia* 52 31)**
Massimo Ortolano and Luca Callegaro

FOCUS ISSUE PAPERS

- 024001 **Quantum imaging with sub-Poissonian light: challenges and perspectives in optical metrology**
I Ruo Berchera and I P Degiovanni
- 024002 **Metrologically traceable quantification of trifluoroacetic acid content in peptide reference materials by ^{19}F solid-state NMR**
Andreas Brinkmann, Mohammad Raza and Jeremy E Melanson
- 024003 **A quantum of action on a scale? Dissemination of the quantum based kilogram**
D Knopf, Th Wiedenhöfer, K Lehrmann and F Härtig
- 024004 **Comprehensive certification of a testosterone calibration standard facilitating the investigation of charged aerosol detection for the quantification of impurities of related structure**
Stephen R Davies, Ponhatai Kankaew, Gregory J Tarrant, William A Donald and Ronda F Greaves
- 024005 **Total evaporation technique for high-accuracy isotopic analysis of isotopically enriched molybdenum by negative thermal ionization mass spectrometry**
Panshu Song, Jun Wang, Yichi Zhang, Hai Lu and Tongxiang Ren

PAPERS

- 025001 **A new type of compact gravimeter for long-term absolute gravity monitoring**
Zhijie Fu, Bin Wu, Bing Cheng, Yin Zhou, Kanxing Weng, Dong Zhu, Zhaoying Wang and Qiang Lin
- 025002 **Comparison of electrostatic and photon pressure force references at the nanonewton level**
Gordon A Shaw, Julian Stirling, John Kramar, Paul Williams, Matthew Spidell and Richard Mirin
- 025003 **Bayesian model selection applied to linear regressions with weighted data**
G Mana, E Massa and C P Sasso
- 025004 **Towards a standard procedure for the measurement of the multi-photon component in a CW telecom heralded single-photon source**
E Rebufello, F Piacentini, M López, R A Kirkwood, I Ruo Berchera, M Gramegna, G Brida, S Kück, C J Chunnillall, M Genovese and I P Degiovanni
- 025005 **Improving two-way satellite time and frequency transfer with redundant links for UTC generation**
Zhiheng Jiang, Victor Zhang, Thomas E Parker, Gérard Petit, Yi-Jiun Huang, Dirk Piester and Joseph Achkar
- 025006 **State estimation for multiple clocks under anomalies using ℓ_1 -norm optimization**
Masato Hirano, Kazumune Hashimoto, Fumimaru Nakagawa, Tetsuya Ido, Yuko Hanado and Shuichi Adachi
- 025007 **The effects of proportional steering strategies on the behavior of controlled clocks**
Demetrios Matsakis
- 025008 **Linking the optical and the mechanical measurements of dimension by a Newton's rings method**
Petr Balling, Zbigniew Ramotowski, Robert Szumski, Antti Lassila, Petr Křen and Pavel Mašika
- 025009 **Development of a low-temperature low-pressure humidity chamber for calibration of radiosonde humidity sensors**
Sang-Wook Lee, Byung Il Choi, Sang-Bong Woo, Jong Chul Kim and Yong-Gyoo Kim