

# News from the International Bureau of Weights and Me

Metrologia

4, 41-45

DOI: 10.1088/0026-1394/4/1/006

Citation Report

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | MKSA, Giorgi and SI. Nature, 1969, 222, 500-502.  | 27.8 | 4         |
| 2  | Nuclear spins and magnetic moments of some cesium isotopes. Nuclear Physics A, 1977, 292, 144-164.  | 1.5  | 75        |
| 3  | The NPL Radiometric Realization of the Candela. Metrologia, 1988, 25, 29-40.  | 1.2  | 32        |
| 4  | Accuracy evaluation of the primary frequency standard NIST-7. Metrologia, 2001, 38, 427-458.  | 1.2  | 62        |
| 5  | Measurement of the blackbody radiation shift of the Cs133 hyperfine transition in an atomic fountain. Physical Review A, 2004, 70, .  | 2.5  | 29        |
| 6  | Blackbody radiation shift of the Cs133 hyperfine transition frequency. Physical Review A, 2004, 69, .   | 2.5  | 30        |
| 7  | Standards of Time and Frequency at the Outset of the 21st Century. Science, 2004, 306, 1318-1324.   | 12.6 | 216       |
| 8  | The Designed Operation of the Machine Control System on HL-2A Tokamak. Plasma Science and Technology, 2005, 7, 2985-2988.   | 1.5  | 1         |
| 9  | The classical caesium beam frequency standard: fifty years later. Metrologia, 2005, 42, S31-S42.  | 1.2  | 33        |
| 10 | To simulate blackbody radiation frequency shift in cesium fountain frequency standard with CO/sub 2/ laser. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1685-1688. | 3.0  | 2         |
| 11 | ZnO nanoparticles embedded in sapphire fabricated by ion implantation and annealing. Nanotechnology, 2006, 17, 2636-2640.   | 2.6  | 46        |
| 12 | Improvements and New Evaluation of NIM4 Caesium Fountain Clock at NIM in 2005-2006. Chinese Physics Letters, 2007, 24, 1177-1179.   | 3.3  | 10        |
| 13 | Gravitational redshift at INRIM. Metrologia, 2007, 44, L44-L48.   | 1.2  | 20        |
| 15 | Quantum Transport and Surface Scattering in Magnetic Metallic Film. Communications in Theoretical Physics, 2008, 50, 771-776.   | 2.5  | 0         |
| 16 | Progress of the <sup>87</sup> Rb Fountain Clock. Chinese Physics Letters, 2009, 26, 123201.   | 3.3  | 7         |
| 17 | Algorithms for International Atomic Time. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 140-150.   | 3.0  | 32        |
| 18 | Ultracold atoms and precise time standards. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4078-4089.  | 3.4  | 15        |
| 19 | The next step for metrology. Nature Photonics, 2011, 5, 185-185.  | 31.4 | 4         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 20 | Diamagnetic correction to the $9\text{Be}$ ground-state hyperfine constant. Physical Review A, 2011, 84, 012501.<br>Temperature and pressure shift of the Cs clock transition in the presence of buffer gases. Physical Review A, 2011, 84, 012502.  | 2.5  | 20        |
| 21 | Ne, $2N$ . Physical Review A, 2011, 83, 012501.  | 2.5  | 59        |
| 22 | DETAILED ABUNDANCES OF TWO VERY METAL-POOR STARS IN DWARF GALAXIES. Astronomical Journal, 2012, 144, 168.  | 4.7  | 55        |
| 23 | Perspective: Time scales and clocks: Invited Review Article: The statistical modeling of atomic clocks and the design of time scales [Rev. Sci. Instrum. 83, 021101 (2012)] and Invited Review Article: The uncertainty in the realization and dissemination of the SI second from a systems point of view [Rev. Sci. Instrum. 83, 021102 (2012)]. Review of Scientific Instruments, 2012, 83, 020901.<br>Coherence-Enhanced Optical Determination of the $\text{Th}$ Isomeric Transition. Physical Review Letters, 2012, 109, 262502. | 1.3  | 3         |
| 24 | A solid triple point. Nature, 2013, 500, 408-409.  | 7.8  | 24        |
| 25 | SPECTROPOLARIMETRY OF THE TYPE Ia SN 2007sr TWO MONTHS AFTER MAXIMUM LIGHT. Astronomical Journal, 2013, 145, 27.   | 27.8 | 8         |
| 26 | The Truth About Laser Fiber Diameters. Urology, 2014, 84, 1301-1307.   | 4.7  | 7         |
| 27 | Numerical survey of the tunable condensate shape and scaling laws in pair-factorized steady states. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 125001.  | 1.0  | 27        |
| 28 | Numerical survey of the tunable condensate shape and scaling laws in pair-factorized steady states. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 125001.  | 2.1  | 7         |
| 29 | Extraction of time constants ratio over nine orders of magnitude for understanding random telegraph noise in metal-oxide-semiconductor field-effect transistors. Japanese Journal of Applied Physics, 2014, 53, 04EC19.  | 1.5  | 13        |
| 30 | Contributing to TAI with a secondary representation of the SI second. Metrologia, 2014, 51, 108-120.   | 1.2  | 60        |
| 32 | One more second. Nature Physics, 2016, 12, 1178-1178.  | 16.7 | 0         |
| 33 | Computed Tidal Relativistic Red-Shifts of Frequency Standards on Earth and in Space Stations *. Chinese Physics Letters, 2017, 34, 110601.   | 3.3  | 0         |
| 34 | A matter of time. Nature Physics, 2017, 13, 1234-1234.   | 16.7 | 1         |
| 37 | Atomic clocks for geodesy. Reports on Progress in Physics, 2018, 81, 064401.   | 20.1 | 145       |
| 38 | Geodetic methods to determine the relativistic redshift at the level of $10^{-18}$ in the context of international timescales: a review and practical results. Journal of Geodesy, 2018, 92, 487-516.  | 3.6  | 56        |
| 40 | Measuring Magnetic Fields with Magnetic-Field-Insensitive Transitions. Physical Review Letters, 2019, 123, 133204.   | 7.8  | 3         |
| 41 | The Optical Frequency Standards for the Realization of the Meter. Annalen Der Physik, 2019, 531, 1800287.  | 2.4  | 4         |

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|----|--|------|-----------|
| 42 | Optical detection in magnetic state-selection Cs beam tubes for transportable Cs beam clocks. Measurement Science and Technology, 2019, 30, 075004.  | 2.6  | 7         |
| 43 | Quantitative optical spectroscopy of <sup>87</sup> Rb vapour in the Voigt geometry in DC magnetic fields up to 0.4 T. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 055003.                   | 1.5  | 13        |
| 44 | The Hyperfine Transition for the Definition of the Second. Annalen Der Physik, 2019, 531, 1900068.   | 2.4  | 12        |
| 45 | The Coordinated Universal Time (UTC). Metrologia, 2019, 56, 042001.  | 1.2  | 59        |
| 46 | Chronometric Geodesy: Methods and Applications. Fundamental Theories of Physics, 2019, , 25-85.  | 0.3  | 10        |
| 47 | Absolute frequency measurement of the <sup>171</sup> Yb optical lattice clock at KRISS using TAI for over a year. Metrologia, 2021, 58, 055007.  | 1.2  | 22        |
| 48 | Simultaneous bicolor interrogation in thulium optical clock providing very low systematic frequency shifts. Nature Communications, 2021, 12, 5171.   | 12.8 | 16        |
| 49 | Metre Convention and Evolution of Base Units. Springer Series in Materials Science, 2009, , 47-65.   | 0.6  | 4         |
| 50 | Absorption spectroscopy and Stokes polarimetry in a <sup>87</sup> Rb vapour in the Voigt geometry with a 1.5 T external magnetic field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 015401. | 1.5  | 13        |
| 51 | Towards the optical second: verifying optical clocks at the SI limit. Optica, 2019, 6, 448.  | 9.3  | 86        |
| 53 | Evaluating Optical Clock Performance for GNSS Positioning. Sensors, 2023, 23, 5998.  | 3.8  | 1         |
| 54 | Evaluation of the relativistic redshift in frequency standards at KRISS. Metrologia, 2024, 61, 015008.   | 1.2  | 0         |