Franco Pavese

List of Publications by Year
in descending order

131 papers	1,277 citations	586496 16 h-index	536525 29 g-index
138 all docs	138 docs citations	138 times ranked	507 citing authors

#	Article	IF	Citations
1	The triple point temperature of iodine. Journal of Chemical Thermodynamics, 2022, 165, 106639.	1.0	3
2	A testing/metrological look at the accuracy of glucose strip measurements in home care for marginal diabetes, for mitigating diabetic kidney disease. Journal of Nephrology, 2022, , 1.	0.9	0
3	On the double heat capacity peak of oxygen solid-to-solid transition near 23.8ÂK. Chemical Physics Letters, 2022, 797, 139598.	1.2	1
4	Comment to: L. Mari â€œIs our understanding of measurement evolving?â€• Acta IMEKO (2012), 2022, 11, 1.	0.4	0
5	Amount concentration of Ar in O2 obtained by means of thermal analysis of certified mixtures at the Î±â€“Î² transition of O2, and preliminary confirmation of a new finding. Journal of Chemical Thermodynamics, 2020, 141, 105934.	1.0	3
6	The Effect of Argon Content on the Î²â€“Î³ Transition of Oxygen. International Journal of Thermophysics, 2020, 41, 1.	1.0	3
7	The ITS-90: A review of the evolution of the cryogenic ranges since 1990 and a view of its future after the new kelvin definition. Measurement: Journal of the International Measurement Confederation, 2020, 159, 107792.	2.5	4
8	Graphic method for retrieval of quantitative data from computer-mapped qualitative information, with a NASA video as an example. Earth Science Informatics, 2020, 13, 655-662.	1.6	0
9	Data comparisons and uncertainty: a roadmap for gaining in competence and improving the reliability of results. International Journal of Metrology and Quality Engineering, 2019, 10, 1.	0.4	14
10	An inter-comparison of isotopic composition of neon via chemical assays and thermal analyses (IUPAC Technical Report). Pure and Applied Chemistry, 2019, 91, 1869-1882.	0.9	2
11	Musing on Use and Misuse of Numerical Data of Quantities in Measurement Science. Measurement Techniques, 2019, 62, 396-401.	0.2	0
12	A possible draft of the CGPM Resolution for the revised SI, compared with the CCU last draft of the 9th SI Brochure. Measurement: Journal of the International Measurement Confederation, 2018, 114, 478-483.	2.5	1
13	Data inter-comparisons in the context of the knowledge-gaining process: an overview. Acta IMEKO (2012), 2018, 7, 73.	0.4	2
14	Improving the understandability of the next edition of the International System of Units (SI) by focusing on its conceptual structure. Measurement: Journal of the International Measurement Confederation, 2017, 101, 200-205.	2.5	5
15	Comment on â€œRealization of the triple points of pure and oxygen-contaminated nitrogenâ€• by H.K. Lee et al. [Physica B 169 (1991) 451â€“452]. Physica B: Condensed Matter, 2017, 514, 96-97.	1.3	0
16	Are the present measurement standards still valid after SI redefinition?. Accreditation and Quality Assurance, 2017, 22, 291-297.	0.4	1
17	Evidence for Argon Content in Pure Oxygen from Thermal Data. International Journal of Thermophysics, 2017, 38, 1.	1.0	4
18	The New SI: Some critical features and a critical review of the CCU 2016 Draft of the SI brochure. Measurement: Journal of the International Measurement Confederation, 2017, 98, 325-338.	2.5	3

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19	The ITS-90 after definition of neon isotopic reference composition: extent of the isotopic effect tested on previous inter-comparison results. International Journal of Metrology and Quality Engineering, 2017, 8, 27.	0.4	0
20	Some important features of the proposed new definition of the International System of Units (SI): realization and hierarchical problems that the users should know about. International Journal of Metrology and Quality Engineering, 2016, 7, 403.	0.4	6
21	Comment to Review of Book ISBN 978-981-4678-61-2 by D. B. Hibbert (Accred Qual Assur (2015)) Tj ETQq1 1 0.784314 rgBT /Overlock	0.4	0
22	FOSTERING DIVERSITY OF THOUGHT IN MEASUREMENT SCIENCE. Series on Advances in Mathematics for Applied Sciences, 2015, , 1-8.	0.0	2
23	Isotopic effects in the neon fixed point: uncertainty of the calibration data correction. Metrologia, 2015, 52, 104-110.	0.6	10
24	Argon Triple-Point Device for Calibration of SPRTs. International Journal of Thermophysics, 2015, 36, 229-239.	1.0	1
25	In sequence realization of the triple points of both20Ne and22Ne in a multicell. Metrologia, 2015, 52, L9-L14.	0.6	0
26	Study on the Difference Between the Triple-Point Temperatures of ^{20} 20 Ne and ^{22} 22 Ne Using Sealed Cells. International Journal of Thermophysics, 2014, 35, 1032-1043.	1.0	1
27	Applying Isotopic Effect in ITS-90 SPRT Calibrations. International Journal of Thermophysics, 2014, 35, 1077-1083.	1.0	3
28	Some problems concerning the use of the CODATA adjusted values of fundamental constants in the definition of measurement units. Metrologia, 2014, 51, L1-L4.	0.6	8
29	How much does the SI, namely the proposed â€œNew Slâ€, conform to principles of the Metre Treaty?. Accreditation and Quality Assurance, 2014, 19, 307-314.	0.4	4
30	Effect of the temperature scale on the difference between the triple point temperatures of pure 22Ne and 20Ne. Journal of Chemical Thermodynamics, 2014, 75, 33-34.	1.0	2
31	Manometric Thermometers. , 2014, , 1-13.		0
32	Modern Gas-Based Temperature and Pressure Measurements. , 2013, , .		12
33	Rounding and notation, namely when using stipulations in the definition of measurement units. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3725-3729.	2.5	13
34	Experimental verification of ideality of 22Ne in 20Ne mixtures at the triple point by means of certified artificial mixtures. Journal of Chemical Thermodynamics, 2013, 60, 87-93.	1.0	9
35	The Î² - Î³ transition of oxygen as a secondary fixed point of the ITS-90. , 2013, , .		4
36	Triple point temperature of neon isotopes: Dependence on nitrogen impurity and sealed-cell model. , 2013, , .		0

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37	Dependence of the triple point temperature of neon on isotopic composition and its implications for the ITS-90. AIP Conference Proceedings, 2013, , .	0.3	5
38	Problems in implementing some of the new measurement unit definitions of the SI. Journal of Physics: Conference Series, 2013, 459, 012042.	0.3	1
39	Why should correction values be better known than the measurand true value?. Journal of Physics: Conference Series, 2013, 459, 012036.	0.3	9
40	Rounding, stipulation and notation issues in measurement. International Journal of Metrology and Quality Engineering, 2013, 4, 41-45.	0.4	0
41	Investigation of low-temperature fixed points by an international star intercomparison of sealed triple-point cells. Metrologia, 2012, 49, 257-265.	0.6	14
42	Corrections and input quantities in measurement models. International Journal of Metrology and Quality Engineering, 2012, 3, 155-159.	0.4	5
43	Comments on the Note on â€œThermodynamic temperature differences from the ITS-90 for the correction of thermodynamic property dataâ€•by F. Pavese, P. Ciarlini, and P.P.M. Steur by J. Fischer, Chairman of WG4 of CCT. Journal of Chemical Thermodynamics, 2012, 44, 179-180.	1.0	1
44	ON THE DIFFERENCE OF MEANINGS OF "ZERO CORRECTION": ZERO VALUE versus NO CORRECTION, AND OF THE ASSOCIATED UNCERTAINTIES. Series on Advances in Mathematics for Applied Sciences, 2012, , 297-309.	0.0	5
45	Further results on the triple point temperature of pure 20Ne and 22Ne. Journal of Chemical Thermodynamics, 2011, 43, 1977-1983.	1.0	11
46	Some reflections on the proposed redefinition of the unit for the amount of substance and of other SI units. Accreditation and Quality Assurance, 2011, 16, 161-165.	0.4	13
47	Thermodynamic temperature differences from the ITS-90 for the correction of thermodynamic property data. Journal of Chemical Thermodynamics, 2011, 43, 75-79.	1.0	5
48	Methods for the assessment of correction for chemical-impurity effects and related uncertainty in ITS-90 fixed points, namely ofe-H2, Ne, O2and Ar. Metrologia, 2011, 48, 268-274.	0.6	5
49	Comparing definitions in guidelines and written standards -a case study: "Trueness". Journal of Physics: Conference Series, 2010, 238, 012042.	0.3	0
50	Comparing statistical methods for the correction of the systematic effects and for the related uncertainty assessment. Journal of Physics: Conference Series, 2010, 238, 012041.	0.3	1
51	Dependence of the treatment of systematic error in interlaboratory comparisons on different classes of standards. Accreditation and Quality Assurance, 2010, 15, 305-315.	0.4	2
52	Further Progress Toward the Determination of T tpâ^'x(22Ne). International Journal of Thermophysics, 2010, 31, 1633-1643.	1.0	11
53	Development of Precision Rhâ€“0.5Âat%Fe Thermometers of Chinese Production: Further Tests. International Journal of Thermophysics, 2010, 31, 1696-1702.	1.0	4
54	Uncertainties in the SPRT Subranges of ITS-90: Topics for Further Research. International Journal of Thermophysics, 2010, 31, 1749-1761.	1.0	6

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55	An accurate determination of the triple point temperature of pure 20Ne and 22Ne. Journal of Chemical Thermodynamics, 2010, 42, 1222-1229.	1.0	15
56	Comparison withUâ‰ˆ 50â€‰ÂµK of neon samples of different isotopic compositions. Metrologia, 2010, 47, 499-517.	0.6	18
57	On hierarchical vs. non-hierarchical comparisons in metrology and testing. International Journal of Metrology and Quality Engineering, 2010, 1, 7-9.	0.4	1
58	Critical review of information relevant to the correction of the effect of chemical impurities in gases used for the realization of ITS-90 fixed points. Metrologia, 2009, 46, 47-61.	0.6	21
59	On some consequences of the different nature ofwithin- andbetween-laboratory data. Metrologia, 2009, 46, L29-L32.	0.6	4
60	On the degree of objectivity of uncertainty evaluation in metrology and testing. Measurement: Journal of the International Measurement Confederation, 2009, 42, 1297-1303.	2.5	11
61	A Roadmap for Thermal Metrology. International Journal of Thermophysics, 2009, 30, 1-8.	1.0	14
62	About the treatment of systematic effects in metrology. Measurement: Journal of the International Measurement Confederation, 2009, 42, 1459-1462.	2.5	8
63	An Introduction to Data Modeling Principles in Metrology and Testing. , 2009, , 1-30.		6
64	Progress Towards the Determination of the Relationship of Triple-Point Temperature versus Isotopic Composition of Neon. International Journal of Thermophysics, 2008, 29, 57-66.	1.0	22
65	Preliminary Results on New Prototypes of Precision Rh-0.5at%Fe Resistance Thermometers of Chinese Production. International Journal of Thermophysics, 2008, 29, 51-56.	1.0	4
66	Dual function sensors for concurrent measurement of temperature and magnetic field in cryogenic applications. Cryogenics, 2008, 48, 413-416.	0.9	5
67	The definition of the measurand in key comparisons: lessons learnt with thermal standards. Metrologia, 2007, 44, 327-339.	0.6	12
68	An MgB2superconducting shield for a cryogenic current comparator working up to 34 K. Superconductor Science and Technology, 2007, 20, L39-L41.	1.8	13
69	Ge-on-GaAs film resistance thermometers for cryogenic applications. Cryogenics, 2007, 47, 474-482.	0.9	42
70	Modelling and measurand identification for the Mise en Pratique of the kelvin. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1150303-1150304.	0.2	0
71	EVITHERM: The Virtual Institute of Thermal Metrology. International Journal of Thermophysics, 2007, 28, 2155-2163.	1.0	3
72	Possible Implications of the Principle of the â€˜Mise en Pratiqueâ€™ in its Application to the Kelvin. International Journal of Thermophysics, 2007, 28, 1766-1774.	1.0	1

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73	The Î±â€“Î² Transition of Nitrogen. International Journal of Thermophysics, 2007, 28, 1904-1912.	1.0	8
74	Uncertainties in the Realization of the SPRT Sub-ranges of the ITS-90. International Journal of Thermophysics, 2007, 28, 1868-1881.	1.0	23
75	Replicated observations in metrology and testing: modelling repeated and non-repeated measurements. Accreditation and Quality Assurance, 2007, 12, 525-534.	0.4	7
76	Lessons Learned in 50 Years of Cryogenic Thermometry. , 2007, , 179-221.		0
77	Review of Ge-GaAs Thermometers and Multisensors for Measurement of Temperature and Magnetic Field in Cryogenic Applications. AIP Conference Proceedings, 2006, , .	0.3	1
78	A metrologist viewpoint on some statistical issues concerning the comparison of non-repeated measurement data, namely MRA Key Comparisons. Measurement: Journal of the International Measurement Confederation, 2006, 39, 821-828.	2.5	10
79	Preparation and characterization of YBa2Cu3O7âˆ’xthick films deposited on silver substrates by the electrophoretic deposition technique for magnetic screening applications. Superconductor Science and Technology, 2006, 19, 249-255.	1.8	15
80	The Effect of the Variability in the Isotopic Composition of Gases on Top-Accuracy Cryogenic Temperature Standards and Remedies. AIP Conference Proceedings, 2006, , .	0.3	0
81	New Thermometers and Multisensors for Cryogenic Temperature and Magnetic Field Measurements. AIP Conference Proceedings, 2006, , .	0.3	2
82	The triple point of nitrogen. Metrologia, 2006, 43, 435-440.	0.6	6
83	Some metrological considerations about replicated measurements on standards. Metrologia, 2006, 43, 419-425.	0.6	6
84	On problems in the definition of the International Temperature Scale arising from the variability of the isotopic composition of some substances used for the fixed-points. Metrologia, 2005, 42, 194-200.	0.6	15
85	Comments on â€˜Statistical analysis of CIPM key comparisons based on the ISOGuideâ€™. Metrologia, 2005, 42, L10-L12.	0.6	13
86	Isotopic and other influences on the realization of the triple point of hydrogen. Metrologia, 2005, 42, 171-193.	0.6	42
87	Evidence of a Systematic Deviation of the Isotopic Composition of Neon from Commercial Sources Compared with Its Isotopic Composition in Air. Analytical Chemistry, 2005, 77, 5076-5080.	3.2	31
88	New temperature and magnetic field sensors for cryogenic applications developed under a European Project**Work partially funded under European Commission INTAS Contract no 2000-0476.. , 2005, , 971-974.		1
89	SAODR: sequence analysis for outlier data rejection. Measurement Science and Technology, 2004, 15, 2047-2052.	1.4	3
90	The use of a mixture of probability distributions in temperature interlaboratory comparisons. Metrologia, 2004, 41, 116-121.	0.6	24

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91	Some Basic Questions in the Treatment of Intercomparison Data. Measurement Techniques, 2003, 46, 421-426.	0.2	3
92	Century-Stable Accurate Cryogenic-Temperature Fixed Points: Problems Solved and Problems To Be Solved. AIP Conference Proceedings, 2003, , .	0.3	3
93	Cryogenic Temperature Sealed Fixed Points: a New-Generation of Modular Cells at IMGC. AIP Conference Proceedings, 2003, , .	0.3	7
94	Detection of Thermometer Clustering in the Calibration of Large Batches of Industrial Thermometers for the LHC by Automated Data Processing. AIP Conference Proceedings, 2003, , .	0.3	3
95	â€œMULTICELLSâ€• A European Project on Cryogenic Temperature Fixed Points in Sealed Cells. AIP Conference Proceedings, 2003, , .	0.3	9
96	An International Star Intercomparison of Low-Temperature Fixed Points Using Sealed Triple-Point Cells. AIP Conference Proceedings, 2003, , .	0.3	9
97	Investigation of the titanium superconducting transition as a temperature reference point below 0.65 K. Metrologia, 2000, 37, 229-233.	0.6	16
98	MATHEMATICAL PROBLEMS IN THE DEFINITION OF STANDARDS BASED ON SCALES: THE CASE OF TEMPERATURE. Series on Advances in Mathematics for Applied Sciences, 2000, , 182-196.	0.0	4
99	Temperature Measurement. , 1999, , .		0
100	Investigations on protective coatings for high temperature superconductor thick films. Cryogenics, 1998, 38, 1031-1033.	0.9	1
101	Development of Low-J c Applications of High-T c Superconductors Based on Extended Thick Films Sprayed on Metallic Substrates with the HVOF Technique. , 1998, , 397-403.		3
102	An automatic apparatus for measurements of critical current up to 30 A in oxide superconductors and some results. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1477-1482.	0.4	1
103	Low-critical-current applications of high-Tc superconductors. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1489-1494.	0.4	0
104	Recommended values of temperature on the International Temperature Scale of 1990 for a selected set of secondary reference points. Metrologia, 1996, 33, 133-154.	0.6	192
105	Progress in Fabrication of Large Magnetic Shields by Using Extended YBCO Thick Films Sprayed on Stainless Steel with the HVOF Technique. , 1996, , 917-922.		1
106	Erratum to â€œApplication of special reduction procedures to metrological dataâ€• Numerical Algorithms, 1995, 10, 421-421.	1.1	0
107	Gas-based temperature measurements in the range of the ITS-90. Measurement: Journal of the International Measurement Confederation, 1995, 16, 265-276.	2.5	2
108	Error Budget and Accuracy of the IMGC Manobarometer Model BIPM/JAEGER with Automatic Data Acquisition. Metrologia, 1994, 30, 559-563.	0.6	4

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109	Key differences in material requirement and technology for large electromagnetic shields, with respect to other large-scale applications of high-T c superconductors. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 2079-2086.	0.4	4
110	Preliminary results for YBCO thick films sprayed on stainless steel with the HVOF technique, and for multilayers using Ag or CuO. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 2119-2126.	0.4	8
111	Recalculation on ITS-90 of accurate vapour-pressure equations for e-H2, Ne, N2, O2, Ar, CH4, and CO2. Journal of Chemical Thermodynamics, 1993, 25, 1351-1361.	1.0	8
112	Application of special reduction procedures to metrological data. Numerical Algorithms, 1993, 5, 479-489.	1.1	2
113	Magnetic shielding properties of YBa2Cu3O7â˜'x thick films deposited on silver cylinders with the continuous detonation spray technique. Physica C: Superconductivity and Its Applications, 1992, 204, 1-7.	0.6	23
114	Modern Gas-Based Temperature and Pressure Measurements. , 1992, , .		53
115	Accurate Modelling of Translational Bias and its Application to the Reduction of Thermodynamic Data Series. Metrologia, 1990, 27, 145-152.	0.6	13
116	Comments on the Article: J Ancsin "Triple Point of Pure and Impure Deuterium",Metrologia25, 155â€“163 (1988). Metrologia, 1989, 26, 207-208.	0.6	1
117	He-3 constant volume gas thermometer as interpolating instrument: calculations of the accuracy limit versus temperature range and design parameters. Cryogenics, 1989, 29, 135-138.	0.9	9
118	Physicochemical problems involved in measuring thermodynamic properties of normal and equilibrium deuterium at the triple point. Journal of Chemical Thermodynamics, 1988, 20, 337-358.	1.0	7
119	The Triple-point Temperature of Pure Equilibrium Deuterium. Metrologia, 1987, 24, 107-120.	0.6	15
120	3He constant-volume gas thermometry: Calculations for a temperature scale between 0.8 and 25 K. Journal of Low Temperature Physics, 1987, 69, 91-117.	0.6	18
121	Passive low temperature thermostat with millikelvin temperature stability for space applications. Cryogenics, 1987, 27, 23-26.	0.9	1
122	Preparation of Low HD Contamination Cells for the Measurement of the Triple Point Temperature of n-D2. , 1986, , 1205-1210.		2
123	Recommended Values of Temperature for a Selected Set of Secondary Reference Points. Metrologia, 1984, 20, 145-155.	0.6	54
124	An International Intercomparison of Fixed Points by Means of Sealed Cells in the Range 13.81 Kâ€“90.686 K. Metrologia, 1984, 20, 127-144.	0.6	50
125	Triple-point temperature of propane: measurements on two solid-to-liquid transitions and one solid-to-solid transition. Journal of Chemical Thermodynamics, 1981, 13, 1095-1104.	1.0	25
126	The Use of Triple Point of Gases in Sealed Cells as Pressure Transfer Standards: Oxygen (146.25 Pa), Methane (11,696 Pa) and Argon (68,890 Pa). Metrologia, 1981, 17, 35-42.	0.6	19

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127	On the IPTS-68 Temperature Value of the Triple Point of Methane. Metrologia, 1979, 15, 47-49.	0.6	11
128	The triple point of pure normal-deuterium. Cryogenics, 1979, 19, 255-260.	0.9	10
129	Some thermodynamic properties of ethane between its double solid-to-solid transition and its triple-point temperature. Journal of Chemical Thermodynamics, 1978, 10, 369-379.	1.0	33
130	The Triple Point of Argon and Oxygen. Metrologia, 1978, 14, 93-103.	0.6	26
131	A sliding thermal tie down suitable for cryogenic temperatures in vacuum. Journal of Physics E: Scientific Instruments, 1975, 8, 508-511.	0.7	0