Franco Pavese

List of Publications by Year
in descending order

131	1,277	516710 16	477307 29
papers	citations	h-index	g-index

138	138	138	474
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recommended values of temperature on the International Temperature Scale of 1990 for a selected set of secondary reference points. Metrologia, 1996, 33, 133-154.	1.2	192
2	Recommended Values of Temperature for a Selected Set of Secondary Reference Points. Metrologia, 1984, 20, 145-155.	1.2	54
3	Modern Gas-Based Temperature and Pressure Measurements. , 1992, , .		53
4	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.	1.2	50
5	Isotopic and other influences on the realization of the triple point of hydrogen. Metrologia, 2005, 42, 171-193.	1.2	42
6	Ge-on-GaAs film resistance thermometers for cryogenic applications. Cryogenics, 2007, 47, 474-482.	1.7	42
7	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.	2.0	33
8	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.	6.5	31
9	The Triple Point of Argon and Oxygen. Metrologia, 1978, 14, 93-103.	1.2	26
10	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.	2.0	25
11	The use of a mixture of probability distributions in temperature interlaboratory comparisons. Metrologia, 2004, 41, 116-121.	1.2	24
12	Magnetic shielding properties of YBa2Cu3O7âˆ’x thick films deposited on silver cylinders with the continuous detonation spray technique. Physica C: Superconductivity and Its Applications, 1992, 204, 1-7.	1.2	23
13	Uncertainties in the Realization of the SPRT Sub-ranges of the ITS-90. International Journal of Thermophysics, 2007, 28, 1868-1881.	2.1	23
14	Progress Towards the Determination of the Relationship of Triple-Point Temperature versus Isotopic Composition of Neon. International Journal of Thermophysics, 2008, 29, 57-66.	2.1	22
15	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.	1.2	21
16	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.	1.2	19
17	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.	1.4	18
18	Comparison withUâ‰ˆ 50â€‰ÂµK of neon samples of different isotopic compositions. Metrologia, 2010, 47, 499-517.	1.2	18

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19	Investigation of the titanium superconducting transition as a temperature reference point below 0.65 K. Metrologia, 2000, 37, 229-233.	1.2	16
20	The Triple-point Temperature of Pure Equilibrium Deuterium. Metrologia, 1987, 24, 107-120.	1.2	15
21	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.	1.2	15
22	Preparation and characterization of YBa2Cu3O7â˜'xthick films deposited on silver substrates by the electrophoretic deposition technique for magnetic screening applications. Superconductor Science and Technology, 2006, 19, 249-255.	3.5	15
23	An accurate determination of the triple point temperature of pure 20Ne and 22Ne. Journal of Chemical Thermodynamics, 2010, 42, 1222-1229.	2.0	15
24	A Roadmap for Thermal Metrology. International Journal of Thermophysics, 2009, 30, 1-8.	2.1	14
25	Investigation of low-temperature fixed points by an international star intercomparison of sealed triple-point cells. Metrologia, 2012, 49, 257-265.	1.2	14
26	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.	1.0	14
27	Accurate Modelling of Translational Bias and its Application to the Reduction of Thermodynamic Data Series. Metrologia, 1990, 27, 145-152.	1.2	13
28	Comments on â€˜Statistical analysis of CIPM key comparisons based on the ISOGuideâ€™. Metrologia, 2005, 42, L10-L12.	1.2	13
29	An MgB2superconducting shield for a cryogenic current comparator working up to 34 K. Superconductor Science and Technology, 2007, 20, L39-L41.	3.5	13
30	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.	0.8	13
31	Rounding and notation, namely when using stipulations in the definition of measurement units. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3725-3729.	5.0	13
32	The definition of the measurand in key comparisons: lessons learnt with thermal standards. Metrologia, 2007, 44, 327-339.	1.2	12
33	Modern Gas-Based Temperature and Pressure Measurements. , 2013, , .		12
34	On the IPTS-68 Temperature Value of the Triple Point of Methane. Metrologia, 1979, 15, 47-49.	1.2	11
35	On the degree of objectivity of uncertainty evaluation in metrology and testing. Measurement: Journal of the International Measurement Confederation, 2009, 42, 1297-1303.	5.0	11
36	Further Progress Toward the Determination of T tpâ˜'x(22Ne). International Journal of Thermophysics, 2010, 31, 1633-1643.	2.1	11

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37	Further results on the triple point temperature of pure 20Ne and 22Ne. Journal of Chemical Thermodynamics, 2011, 43, 1977-1983.	2.0	11
38	The triple point of pure normal-deuterium. Cryogenics, 1979, 19, 255-260.	1.7	10
39	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.	5.0	10
40	Isotopic effects in the neon fixed point: uncertainty of the calibration data correction. Metrologia, 2015, 52, 104-110.	1.2	10
41	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.	1.7	9
42	â€œMULTICELLSâ€• A European Project on Cryogenic Temperature Fixed Points in Sealed Cells. AIP Conference Proceedings, 2003, , .	0.4	9
43	An International Star Intercomparison of Low-Temperature Fixed Points Using Sealed Triple-Point Cells. AIP Conference Proceedings, 2003, , .	0.4	9
44	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.	2.0	9
45	Why should correction values be better known than the measurand true value?. Journal of Physics: Conference Series, 2013, 459, 012036.	0.4	9
46	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.	2.0	8
47	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
48	The Î±â€“Î² Transition of Nitrogen. International Journal of Thermophysics, 2007, 28, 1904-1912.	2.1	8
49	About the treatment of systematic effects in metrology. Measurement: Journal of the International Measurement Confederation, 2009, 42, 1459-1462.	5.0	8
50	Some problems concerning the use of the CODATA adjusted values of fundamental constants in the definition of measurement units. Metrologia, 2014, 51, L1-L4.	1.2	8
51	Physicochemical problems involved in measuring thermodynamic properties of normal and equilibrium deuterium at the triple point. Journal of Chemical Thermodynamics, 1988, 20, 337-358.	2.0	7
52	Cryogenic Temperature Sealed Fixed Points: a New-Generation of Modular Cells at IMGC. AIP Conference Proceedings, 2003, , .	0.4	7
53	Replicated observations in metrology and testing: modelling repeated and non-repeated measurements. Accreditation and Quality Assurance, 2007, 12, 525-534.	0.8	7
54	The triple point of nitrogen. Metrologia, 2006, 43, 435-440.	1.2	6

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55	Some metrological considerations about replicated measurements on standards. Metrologia, 2006, 43, 419-425.	1.2	6
56	Uncertainties in the SPRT Subranges of ITS-90: Topics for Further Research. International Journal of Thermophysics, 2010, 31, 1749-1761.	2.1	6
57	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.	1.0	6
58	An Introduction to Data Modeling Principles in Metrology and Testing. , 2009, , 1-30.		6
59	Dual function sensors for concurrent measurement of temperature and magnetic field in cryogenic applications. Cryogenics, 2008, 48, 413-416.	1.7	5
60	Thermodynamic temperature differences from the ITS-90 for the correction of thermodynamic property data. Journal of Chemical Thermodynamics, 2011, 43, 75-79.	2.0	5
61	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.	1.2	5
62	Corrections and input quantities in measurement models. International Journal of Metrology and Quality Engineering, 2012, 3, 155-159.	1.0	5
63	Dependence of the triple point temperature of neon on isotopic composition and its implications for the ITS-90. AIP Conference Proceedings, 2013, , .	0.4	5
64	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.	5.0	5
65	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.	0.1	5
66	Error Budget and Accuracy of the IMGC Manobarometer Model BIPM/JAEGER with Automatic Data Acquisition. Metrologia, 1994, 30, 559-563.	1.2	4
67	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
68	Preliminary Results on New Prototypes of Precision Rh-0.5at%Fe Resistance Thermometers of Chinese Production. International Journal of Thermophysics, 2008, 29, 51-56.	2.1	4
69	On some consequences of the different nature ofwithin- andbetween-laboratory data. Metrologia, 2009, 46, L29-L32.	1.2	4
70	Development of Precision Rhâ€“0.5Âat%Fe Thermometers of Chinese Production: Further Tests. International Journal of Thermophysics, 2010, 31, 1696-1702.	2.1	4
71	The Î² - Î³ transition of oxygen as a secondary fixed point of the ITS-90. , 2013, , .		4
72	How much does the SI, namely the proposed â€œNew SIâ€ conform to principles of the Metre Treaty?. Accreditation and Quality Assurance, 2014, 19, 307-314.	0.8	4

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73	Evidence for Argon Content in Pure Oxygen from Thermal Data. International Journal of Thermophysics, 2017, 38, 1.	2.1	4
74	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.	5.0	4
75	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.	0.1	4
76	Some Basic Questions in the Treatment of Intercomparison Data. Measurement Techniques, 2003, 46, 421-426.	0.6	3
77	Century-Stable Accurate Cryogenic-Temperature Fixed Points: Problems Solved and Problems To Be Solved. AIP Conference Proceedings, 2003, , .	0.4	3
78	Detection of Thermometer Clustering in the Calibration of Large Batches of Industrial Thermometers for the LHC by Automated Data Processing. AIP Conference Proceedings, 2003, , .	0.4	3
79	SAODR: sequence analysis for outlier data rejection. Measurement Science and Technology, 2004, 15, 2047-2052.	2.6	3
80	EVITHERM: The Virtual Institute of Thermal Metrology. International Journal of Thermophysics, 2007, 28, 2155-2163.	2.1	3
81	Applying Isotopic Effect in ITS-90 SPRT Calibrations. International Journal of Thermophysics, 2014, 35, 1077-1083.	2.1	3
82	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.	5.0	3
83	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.	2.0	3
84	The Effect of Argon Content on the Î²â€“Î³ Transition of Oxygen. International Journal of Thermophysics, 2020, 41, 1.	2.1	3
85	The triple point temperature of iodine. Journal of Chemical Thermodynamics, 2022, 165, 106639.	2.0	3
86	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
87	Application of special reduction procedures to metrological data. Numerical Algorithms, 1993, 5, 479-489.	1.9	2
88	Gas-based temperature measurements in the range of the ITS-90. Measurement: Journal of the International Measurement Confederation, 1995, 16, 265-276.	5.0	2
89	New Thermometers and Multisensors for Cryogenic Temperature and Magnetic Field Measurements. AIP Conference Proceedings, 2006, , .	0.4	2
90	Dependence of the treatment of systematic error in interlaboratory comparisons on different classes of standards. Accreditation and Quality Assurance, 2010, 15, 305-315.	0.8	2

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91	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.	2.0	2
92	FOSTERING DIVERSITY OF THOUGHT IN MEASUREMENT SCIENCE. Series on Advances in Mathematics for Applied Sciences, 2015, , 1-8.	0.1	2
93	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.	1.9	2
94	Preparation of Low HD Contamination Cells for the Measurement of the Triple Point Temperature of n-D2. , 1986, , 1205-1210.		2
95	Data inter-comparisons in the context of the knowledge-gaining process: an overview. Acta IMEKO (2012), 2018, 7, 73.	0.7	2
96	Passive low temperature thermostat with millikelvin temperature stability for space applications. Cryogenics, 1987, 27, 23-26.	1.7	1
97	Comments on the Article: J Ancsin "Triple Point of Pure and Impure Deuterium",Metrologia25, 155â€“163 (1988). Metrologia, 1989, 26, 207-208.	1.2	1
98	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
99	Investigations on protective coatings for high temperature superconductor thick films. Cryogenics, 1998, 38, 1031-1033.	1.7	1
100	Review of Ge-GaAs Thermometers and Multisensors for Measurement of Temperature and Magnetic Field in Cryogenic Applications. AIP Conference Proceedings, 2006, , .	0.4	1
101	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.	2.1	1
102	Comparing statistical methods for the correction of the systematic effects and for the related uncertainty assessment. Journal of Physics: Conference Series, 2010, 238, 012041.	0.4	1
103	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.	2.0	1
104	Problems in implementing some of the new measurement unit definitions of the SI. Journal of Physics: Conference Series, 2013, 459, 012042.	0.4	1
105	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.	2.1	1
106	Argon Triple-Point Device for Calibration of SPRTs. International Journal of Thermophysics, 2015, 36, 229-239.	2.1	1
107	Are the present measurement standards still valid after SI redefinition?. Accreditation and Quality Assurance, 2017, 22, 291-297.	0.8	1
108	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.	5.0	1

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109	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
110	On hierarchical vs. non-hierarchical comparisons in metrology and testing. International Journal of Metrology and Quality Engineering, 2010, 1, 7-9.	1.0	1
111	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
112	On the double heat capacity peak of oxygen solid-to-solid transition near 23.8ÂK. Chemical Physics Letters, 2022, 797, 139598.	2.6	1
113	A sliding thermal tie down suitable for cryogenic temperatures in vacuum. Journal of Physics E: Scientific Instruments, 1975, 8, 508-511.	0.7	0
114	Erratum to â€œApplication of special reduction procedures to metrological dataâ€• Numerical Algorithms, 1995, 10, 421-421.	1.9	0
115	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
116	The Effect of the Variability in the Isotopic Composition of Gases on Top-Accuracy Cryogenic Temperature Standards and Remedies. AIP Conference Proceedings, 2006, , .	0.4	0
117	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
118	Comparing definitions in guidelines and written standards -a case study: "Trueness". Journal of Physics: Conference Series, 2010, 238, 012042.	0.4	0
119	Triple point temperature of neon isotopes: Dependence on nitrogen impurity and sealed-cell model. , 2013, , .		0
120	In sequence realization of the triple points of both20Ne and22Ne in a multicell. Metrologia, 2015, 52, L9-L14.	1.2	0
121	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 /Overlo	0.8	0
122	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.	2.7	0
123	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.	1.0	0
124	Musing on Use and Misuse of Numerical Data of Quantities in Measurement Science. Measurement Techniques, 2019, 62, 396-401.	0.6	0
125	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.	3.2	0
126	Rounding, stipulation and notation issues in measurement. International Journal of Metrology and Quality Engineering, 2013, 4, 41-45.	1.0	0

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127	Manometric Thermometers. , 2014, , 1-13.		0
128	Temperature Measurement. , 1999, , .		0
129	Lessons Learned in 50 Years of Cryogenic Thermometry. , 2007, , 179-221.		0
130	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.	2.0	0
131	Comment to: L. Mari â€œIs our understanding of measurement evolving?â€• Acta IMEKO (2012), 2022, 11, 1.	0.7	0