Paul L Stanwix

List of Publications by Year
in descending order

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64	3,638	304368	149479
papers	citations	22 h-index	56 g-index

65	65	65	3570
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoscale magnetic sensing with an individual electronic spin in diamond. Nature, 2008, 455, 644-647.	13.7	1,554
2	Coherence of nitrogen-vacancy electronic spin ensembles in diamond. Physical Review B, 2010, 82, .	1.1	238
3	Magnetic field imaging with nitrogen-vacancy ensembles. New Journal of Physics, 2011, 13, 045021.	1.2	228
4	Far-field optical imaging and manipulation of individual spins with nanoscale resolution. Nature Physics, 2010, 6, 912-918.	6.5	142
5	Test of Lorentz Invariance in Electrodynamics Using Rotating Cryogenic Sapphire Microwave Oscillators. Physical Review Letters, 2005, 95, 040404.	2.9	127
6	Tests of Relativity by Complementary Rotating Michelson-Morley Experiments. Physical Review Letters, 2007, 99, 050401.	2.9	119
7	Invited Article: Design techniques and noise properties of ultrastable cryogenically cooled sapphire-dielectric resonator oscillators. Review of Scientific Instruments, 2008, 79, 051301.	0.6	100
8	Improved test of Lorentz invariance in electrodynamics using rotating cryogenic sapphire oscillators. Physical Review D, 2006, 74, .	1.6	87
9	Capture of low grade methane from nitrogen gas using dual-reflux pressure swing adsorption. Chemical Engineering Journal, 2015, 281, 739-748.	6.6	84
10	Characterising thermally controlled CH₄â€“CO₂ hydrate exchange in unconsolidated sediments. Energy and Environmental Science, 2018, 11, 1828-1840.	15.6	70
11	Cryogenic sapphire oscillator with exceptionally high long-term frequency stability. Applied Physics Letters, 2006, 89, 203513.	1.5	67
12	Direct terrestrial test of Lorentz symmetry in electrodynamics to 10âˆ'18. Nature Communications, 2015, 6, 8174.	5.8	67
13	Gas hydrate formation probability distributions: Induction times, rates of nucleation and growth. Fuel, 2019, 252, 448-457.	3.4	53
14	Gas hydrate formation probability and growth rate as a function of kinetic hydrate inhibitor (KHI) concentration. Chemical Engineering Journal, 2020, 388, 124177.	6.6	47
15	Gas Hydrate Formation Probability Distributions: The Effect of Shear and Comparisons with Nucleation Theory. Langmuir, 2018, 34, 3186-3196.	1.6	43
16	Raman Spectroscopic Studies of Clathrate Hydrate Formation in the Presence of Hydrophobized Particles. Journal of Physical Chemistry A, 2016, 120, 417-424.	1.1	40
17	Earthâ€™s field NMR flow meter: Preliminary quantitative measurements. Journal of Magnetic Resonance, 2014, 245, 110-115.	1.2	34
18	Improved constraints on isotropic shift and anisotropies of the speed of light using rotating cryogenic sapphire oscillators. Physical Review D, 2010, 82, .	1.6	28

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19	Anti-reflection coating for nitrogen-vacancy optical measurements in diamond. Applied Physics Letters, 2012, 100, .	1.5	28
20	Rotating odd-parity Lorentz invariance test in electrodynamics. Physical Review D, 2009, 80, .	1.6	24
21	Hydrate nucleation and growth on water droplets acoustically-levitated in high-pressure natural gas. Physical Chemistry Chemical Physics, 2019, 21, 21685-21688.	1.3	24
22	Testing local position and fundamental constant invariance due to periodic gravitational and boost using long-term comparison of the SYRTE atomic fountains and H-masers. Physical Review D, 2013, 87, .	1.6	22
23	Long-term operation and performance of cryogenic sapphire oscillators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2386-2393.	1.7	21
24	Quantitative multiphase flow characterisation using an Earth's field NMR flow meter. Flow Measurement and Instrumentation, 2017, 58, 104-111.	1.0	20
25	Improved Methods for Gas Mixture Viscometry Using a Vibrating Wire Clamped at Both Ends. Journal of Chemical & Engineering Data, 2014, 59, 1619-1628.	1.0	19
26	Characterisation of a microwave re-entrant cavity resonator for phase-equilibrium measurements and new dew-point data for a (0.25 argon + 0.75 carbon dioxide) mixture. Journal of Chemical Thermodynamics, 2016, 101, 395-404.	1.0	19
27	Viscosity of {xCH₄ + (1 â€“ x)C₃H₈} with x = 0.949 for Temperatures between (200 and 423) K and Pressures between (10 and 31) MPa. Journal of Chemical & Engineering Data, 2015, 60, 118-123.	1.0	18
28	Quantitative velocity distributions via nuclear magnetic resonance flow metering. Journal of Magnetic Resonance, 2016, 269, 179-185.	1.2	18
29	Dielectric permittivity, polarizability and dipole moment of refrigerants R1234ze(E) and R1234yf determined using a microwave re-entrant cavity resonator. Journal of Chemical Thermodynamics, 2019, 128, 148-158.	1.0	18
30	Cavity Bounds on Higher-Order Lorentz-Violating Coefficients. Physical Review Letters, 2011, 106, 180401.	2.9	17
31	Viscosity of {xCO2+(1â^'x)CH4} with x=0.5174 for temperatures between (229 and 348)K and pressures between (1 and 32)MPa. Journal of Chemical Thermodynamics, 2015, 87, 162-167.	1.0	17
32	Quantitative produced water analysis using mobile1H NMR. Measurement Science and Technology, 2016, 27, 105501.	1.4	17
33	Two-phase oil/water flow measurement using an Earthâ€™s field nuclear magnetic resonance flow meter. Chemical Engineering Science, 2019, 202, 222-237.	1.9	16
34	Rotating Resonator-Oscillator Experiments to Test Lorentz Invariance in Electrodynamics. , 2006, , 416-450.		15
35	A resistive Q-switch for low-field NMR systems. Journal of Magnetic Resonance, 2018, 287, 33-40.	1.2	15
36	Viscosity of a [xCH4â€¯+â€¯(1â€¯â^'â€¯x)C3H8] mixture with xâ€¯=â€¯0.8888 at temperatures between (203 and 424)â€¯K and pressures between (2 and 31)â€¯MPa. Fuel, 2018, 225, 563-572.	3.4	15

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37	Viscosity and Dew Point Measurements of {xCH₄ + (1 â€“) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td Journal of Chemical & Engineering Data, 2015, 60, 3688-3695.	1.0	14
38	Densities, Dielectric Permittivities, and Dew Points for (Argon + Carbon Dioxide) Mixtures Determined with a Microwave Re-entrantÂCavityÂResonator. Journal of Chemical & Engineering Data, 2017, 62, 2521-2532.	1.0	14
39	Comment on â€œTest of constancy of speed of light with rotating cryogenic optical resonatorsâ€. Physical Review A, 2005, 72, .	1.0	13
40	Optical frequency synthesis from a cryogenic microwave sapphire oscillator. Optics Express, 2006, 14, 4316.	1.7	12
41	NMR-Compatible Sample Cell for Gas Hydrate Studies in Porous Media. Energy & Fuels, 2020, 34, 12388-12398.	2.5	11
42	Measurements of solidification kinetics for benzene in methane at high pressures and cryogenic temperatures. Chemical Engineering Journal, 2021, 407, 127086.	6.6	11
43	Designs of a microwave TE/sub 011/ mode cavity for a space borne H-maser. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1638-1643.	1.7	10
44	Speed of sound and derived thermodynamic properties of para-xylene at temperatures between (306) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	10
45	High-Pressure Thermal Conductivity Measurements of a (Methane + Propane) Mixture with a Transient Hot-Wire Apparatus. Journal of Chemical & Engineering Data, 2020, 65, 906-915.	1.0	10
46	Generation of 103.75 GHz CW Source With 5.10^{-16} Frequency Instability Using Cryogenic Sapphire Oscillators. IEEE Microwave and Wireless Components Letters, 2012, 22, 85-87.	2.0	9
47	Accurate Highâ€Pressure Measurements of Carbon Monoxide's Electrical Properties. ChemPhysChem, 2018, 19, 784-792.	1.0	7
48	Insights into CO2-CH4 hydrate exchange in porous media using magnetic resonance. Fuel, 2022, 312, 122830.	3.4	7
49	Application of Raman Spectroscopy for Sorption Analysis of Functionalized Porous Materials. Advanced Science, 2022, 9, e2105477.	5.6	7
50	Densities and dielectric permittivities for (carbon monoxideâ€¯+â€¯carbon dioxide) mixtures determined with a microwave re-entrant cavity resonator. Journal of Chemical Thermodynamics, 2019, 129, 114-120.	1.0	6
51	Thermodynamic Properties of Liquid Toluene from Speed-of-Sound Measurements at Temperatures from 283.15ÂK to 473.15ÂK and at Pressures up to 390ÂMPa. International Journal of Thermophysics, 2021, 42, 1.	1.0	6
52	Second generation 50 K dual-mode sapphire oscillator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 284-288.	1.7	5
53	Cryogenic sapphire oscillator with exceptionally high long-term frequency stability. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	4
54	Characterization of Fluid-Phase Behavior Using an Advanced Microwave Re-Entrant Cavity. Journal of Chemical & Engineering Data, 2020, 65, 3393-3402.	1.0	3

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55	Nanoscale magnetic sensing using spin qubits in diamond. , 2009, , .		2
56	Managing Hydrate Formation in Subsea Production. , 2020, , .		2
57	Accurate measurements of very small coupling coefficients of electromagnetic resonators at microwave frequencies. Measurement Science and Technology, 2004, 15, 881-884.	1.4	1
58	Dielectric properties of binary hydrofluoroolefin refrigerant mixtures: Comparisons of new experimental data with molecular dynamics simulations. Journal of Chemical Thermodynamics, 2020, 142, 105985.	1.0	1
59	A microwave sensor for detecting impurity freeze out in liquefied natural gas production. Fuel Processing Technology, 2021, 219, 106878.	3.7	1
60	Using Precision Oscillators and Interferometers to Test Fundamental Physics. , 2006, , .		0
61	Continuous operation of an odd parity Lorentz Invariance test in electrodynamics using a microwave interferometer. , 2008, , .		0
62	Generation of 100 GHz with parts in 1016 frequency stability using cryogenic sapphire oscillators. , 2011, , .		0
63	Rotating microwave cryogenic sapphire oscillators for tests of Lorentz Invariance. , 2011, , .		0
64	Testing speed of light isotropy using rotating cryogenic sapphire microwave oscillators. , 2014, , .		0