George C Rhoderick

List of Publications by Year
in descending order

38	465	687363 13	794594 19
papers	citations	h-index	g-index

38	38	38	418
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in reference materials and measurement techniques for greenhouse gas atmospheric observations. Metrologia, 2019, 56, 034006.	1.2	24
2	Stability of gaseous volatile organic compounds contained in gas cylinders with different internal wall treatments. Elementa, 2019, 7, .	3.2	10
3	NIST Standards for Measurement, Instrument Calibration, and Quantification of Gaseous Atmospheric Compounds. Analytical Chemistry, 2018, 90, 4711-4718.	6.5	3
4	SI traceability and scales for underpinning atmospheric monitoring of greenhouse gases. Metrologia, 2018, 55, S174-S181.	1.2	9
5	Issues with analyzing noble gases using gas chromatography with thermal conductivity detection. Analytical and Bioanalytical Chemistry, 2018, 410, 6247-6255.	3.7	0
6	CCQM-K121 - Monoterpenes in nitrogen at 2.5 nmol mol⁻¹ final report. Metrologia, 2018, 55, 08019.	1.2	2
7	International comparison CCQM-K113â€”noble gas mixture. Metrologia, 2017, 54, 08017.	1.2	3
8	Development of a Northern Continental Air Standard Reference Material. Analytical Chemistry, 2016, 88, 3376-3385.	6.5	15
9	Development of a southern oceanic air standard reference material. Analytical and Bioanalytical Chemistry, 2016, 408, 1159-1169.	3.7	10
10	Methane Standards Made in Whole and Synthetic Air Compared by Cavity Ring Down Spectroscopy and Gas Chromatography with Flame Ionization Detection for Atmospheric Monitoring Applications. Analytical Chemistry, 2015, 87, 3272-3279.	6.5	17
11	Investigating Adsorption/Desorption of Carbon Dioxide in Aluminum Compressed Gas Cylinders. Analytical Chemistry, 2015, 87, 1957-1962.	6.5	22
12	International comparison CCQM-K82: methane in air at ambient level (1800 to 2200) nmol/mol. Metrologia, 2015, 52, 08001-08001.	1.2	15
13	Comparison of halocarbon measurements in an atmospheric dry whole air sample. Elementa, 2015, 3, .	3.2	5
14	Final report on international comparison CCQM-K83: Halocarbons in dry whole air. Metrologia, 2014, 51, 08009-08009.	1.2	4
15	International Comparison of a Hydrocarbon Gas Standard at the Picomol per Mol Level. Analytical Chemistry, 2014, 86, 2580-2589.	6.5	12
16	Development and Verification of Air Balance Gas Primary Standards for the Measurement of Nitrous Oxide at Atmospheric Levels. Analytical Chemistry, 2014, 86, 4544-4549.	6.5	15
17	Preparation and Validation of Fully Synthetic Standard Gas Mixtures with Atmospheric Isotopic Composition for Global CO₂ and CH₄ Monitoring. Analytical Chemistry, 2014, 86, 1887-1893.	6.5	28
18	The National Institute of Standards and Technology ambient level methane in air Standard Reference Material historical record. Analytical and Bioanalytical Chemistry, 2013, 405, 369-375.	3.7	5

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19	Stability Assessment of Gas Mixtures Containing Monoterpenes in Varying Cylinder Materials and Treatments. Analytical Chemistry, 2013, 85, 4675-4685.	6.5	20
20	NIST Gravimetrically Prepared Atmospheric Level Methane in Dry Air Standards Suite. Analytical Chemistry, 2012, 84, 3802-3810.	6.5	13
21	Final report on international comparison CCQM-K68: Nitrous oxide in synthetic air. Metrologia, 2011, 48, 08004-08004.	1.2	13
22	Stability assessment of gas mixtures containing terpenes at nominal 5Ânmol/mol contained in treated aluminum gas cylinders. Analytical and Bioanalytical Chemistry, 2010, 398, 1417-1425.	3.7	12
23	Hydrocarbon Gas Standards at the pmol/mol Level to Support Ambient Atmospheric Measurements. Analytical Chemistry, 2010, 82, 859-867.	6.5	10
24	Gas Standards Development in Support of NASAâ€™s Sensor Calibration Program Around the Space Shuttle. Analytical Chemistry, 2009, 81, 3809-3815.	6.5	1
25	Differences between propane in nitrogen versus air matrix analyzed using gas chromatography with flame-ionization detection. Journal of Chromatography A, 2008, 1187, 226-231.	3.7	5
26	Development of a 100Ânmol molâ¯1 propane-in-air SRM for automobile-exhaust testing for new low-emission requirements. Analytical and Bioanalytical Chemistry, 2007, 387, 2425-2432.	3.7	2
27	Development of a NIST Standard Reference Material Containing Thirty Volatile Organic Compounds at 5 nmol/mol in Nitrogen. Analytical Chemistry, 2006, 78, 3125-3132.	6.5	20
28	Feasibility of preparing and analyzing gas standards containing heavy hydrocarbons (C10â€“C16). Analytical and Bioanalytical Chemistry, 2006, 385, 866-874.	3.7	1
29	Long-term stability of hydrocarbons in NIST gas standard reference material (SRM) 1800. Analytical and Bioanalytical Chemistry, 2005, 383, 98-106.	3.7	16
30	International Comparison CCQM-K16: Composition of natural gas types IV and V. Metrologia, 2005, 42, 08003-08003.	1.2	9
31	Standards Development of Global Warming Gas Species:Â Methane, Nitrous Oxide, Trichlorofluoromethane, and Dichlorodifluoromethane. Environmental Science & Technology, 2004, 38, 2685-2692.	10.0	34
32	Analysis of natural gas: the necessity of multiple standards for calibration. Journal of Chromatography A, 2003, 1017, 131-139.	3.7	22
33	Stability of compressed gas mixtures containing low level volatile organic compounds in aluminum cylinders. Fresenius' Journal of Analytical Chemistry, 1995, 351, 221-229.	1.5	8
34	Measurement of atmospheric methyl bromide using gravimetric gas standards. Environmental Science & Technology, 1995, 29, 2797-2800.	10.0	6
35	Development of hydrocarbon gas standards. Journal of Chromatography A, 1993, 653, 71-81.	3.7	13
36	Gas standards containing halogenated compounds for atmospheric measurements. Environmental Science & Technology, 1993, 27, 2849-2854.	10.0	10

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37	Development of a gas standard reference material containing eighteen volatile organic compounds. Fresenius' Journal of Analytical Chemistry, 1991, 341, 524-531.	1.5	11
38	Preparation of accurate multicomponent gas standards of volatile toxic organic compounds in the low-parts-per-billion range. Analytical Chemistry, 1988, 60, 2454-2460.	6.5	40