

# Purnendu K Dasgupta

## List of Publications by Citations

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381 papers	12,577 citations	55 h-index	89 g-index
388 ext. papers	13,347 ext. citations	7.1 avg, IF	6.46 L-index

#	Paper	IF	Citations
381	Analytical chemistry in a drop. Solvent extraction in a microdrop. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1817-21	7.8	619
380	Fluorescence properties of metal complexes of 8-hydroxyquinoline-5-sulfonic acid and chromatographic applications. <i>Analytical Chemistry</i> , <b>1987</b> , 59, 629-636	7.8	325
379	The origin of naturally occurring perchlorate: the role of atmospheric processes. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 1569-75	10.3	324
378	Recent developments in cyanide detection: a review. <i>Analytica Chimica Acta</i> , <b>2010</b> , 673, 117-25	6.6	255
377	Perchlorate and iodide in dairy and breast milk. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 2011-17	10.3	255
376	Liquid Droplet. A Renewable Gas Sampling Interface. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 2042-2049	7.8	182
375	Hematin as a peroxidase substitute in hydrogen peroxide determinations. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 517-22	7.8	175
374	Light emitting diode-based detectors: Absorbance, fluorescence and spectroelectrochemical measurements in a planar flow-through cell. <i>Analytica Chimica Acta</i> , <b>2003</b> , 500, 337-364	6.6	164
373	Perchlorate in the United States. Analysis of relative source contributions to the food chain. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 6608-14	10.3	145
372	Perchlorate in milk. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 4979-81	10.3	140
371	Fluorometric measurement of aqueous ammonium ion in a flow injection system. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 408-412	7.8	140
370	Determination of atmospheric sulfur dioxide without tetrachloromercurate(II) and the mechanism of the Schiff reaction. <i>Analytical Chemistry</i> , <b>1980</b> , 52, 1912-1922	7.8	121
369	Speciation and detection of arsenic in aqueous samples: a review of recent progress in non-atomic spectrometric methods. <i>Analytica Chimica Acta</i> , <b>2014</b> , 831, 1-23	6.6	115
368	Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 1792-1798	7.8	109
367	Solubility of gaseous formaldehyde in liquid water and generation of trace standard gaseous formaldehyde. <i>Environmental Science &amp; Technology</i> , <b>1986</b> , 20, 637-40	10.3	108
366	Continuous Automated Measurement of the Soluble Fraction of Atmospheric Particulate Matter. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 71-78	7.8	103
365	High-Sensitivity Gas Sensors Based on Gas-Permeable Liquid Core Waveguides and Long-Path Absorbance Detection. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4661-4669	7.8	102

364	Fast fluorometric flow injection analysis of formaldehyde in atmospheric water. <i>Environmental Science &amp; Technology</i> , <b>1987</b> , 21, 581-8	10.3	100
363	Review of analytical methods for the quantification of iodine in complex matrices. <i>Analytica Chimica Acta</i> , <b>2011</b> , 702, 16-36	6.6	99
362	A miniaturized liquid core waveguide-capillary electrophoresis system with flow injection sample introduction and fluorometric detection using light-emitting diodes. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4545-9	7.8	99
361	Continuous automated measurement of gaseous nitrous and nitric acids and particulate nitrite and nitrate. <i>Environmental Science &amp; Technology</i> , <b>1995</b> , 29, 1534-41	10.3	97
360	Continuous liquid-phase fluorometry coupled to a diffusion scrubber for the real-time determination of atmospheric formaldehyde, hydrogen peroxide and sulfur dioxide. <i>Atmospheric Environment</i> , <b>1988</b> , 22, 949-963		95
359	Perchlorate in dairy milk. Comparison of Japan versus the United States. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 88-92	10.3	94
358	Determination of acetone in breath. <i>Analytica Chimica Acta</i> , <b>2005</b> , 535, 189-199	6.6	92
357	Wet effluent denuder coupled liquid/ion chromatography systems: annular and parallel plate denuders. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 1134-1139	7.8	92
356	Light at the end of the tunnel: recent analytical applications of liquid-core waveguides. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2004</b> , 23, 385-392	14.6	91
355	Iodine nutrition: iodine content of iodized salt in the United States. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1315-23	10.3	90
354	Suppressed conductometric capillary electrophoresis separation systems. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 1003-1011	7.8	89
353	Nitroprusside and methylene blue methods for silicone membrane differentiated flow injection determination of sulfide in water and wastewater. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 36-43	7.8	89
352	Light-emitting diodes for analytical chemistry. <i>Annual Review of Analytical Chemistry</i> , <b>2014</b> , 7, 183-207	12.5	87
351	A general, positive ion mode ESI-MS approach for the analysis of singly charged inorganic and organic anions using a dicationic reagent. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 7346-52	7.8	82
350	Luminescence detection with a liquid core waveguide. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1400-7	7.8	82
349	A field-deployable instrument for the measurement and speciation of arsenic in potable water. <i>Analytica Chimica Acta</i> , <b>1999</b> , 380, 27-37	6.6	80
348	Temporal patterns in perchlorate, thiocyanate, and iodide excretion in human milk. <i>Environmental Health Perspectives</i> , <b>2007</b> , 115, 182-6	8.4	79
347	Measurement of atmospheric hydrogen peroxide and hydroxymethyl hydroperoxide with a diffusion scrubber and light emitting diode-liquid core waveguide-based fluorometry. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 5338-47	7.8	79

- 346 Fluorometric flow injection determination of aqueous peroxides at nanomolar level using membrane reactors. *Analytical Chemistry*, **1986**, 58, 1521-1524 7.8 78
- 345 Gas-phase ion association provides increased selectivity and sensitivity for measuring perchlorate by mass spectrometry. *Analytical Chemistry*, **2005**, 77, 4829-35 7.8 77
- 344 A Renewable Liquid Droplet as a Sampler and a Windowless Optical Cell. Automated Sensor for Gaseous Chlorine. *Analytical Chemistry*, **1995**, 67, 4221-4228 7.8 74
- 343 Measurement of atmospheric ammonia. *Environmental Science & Technology*, **1989**, 23, 1467-1474 10.3 72
- 342 Continuous Automated Determination of Atmospheric Formaldehyde at the Parts Per Trillion Level. *Analytical Chemistry*, **1994**, 66, 551-556 7.8 71
- 341 Thermodynamics of the hydrogen peroxide-water system. *Environmental Science & Technology*, **1985**, 19, 255-8 10.3 70
- 340 Analytical Chemistry in a Liquid Film/Droplet. *Analytical Chemistry*, **1995**, 67, 2562-2566 7.8 69
- 339 Perchlorate production by ozone oxidation of chloride in aqueous and dry systems. *Science of the Total Environment*, **2008**, 405, 301-9 10.2 67
- 338 Measurement of ammonia in human breath with a liquid-film conductivity sensor. *Analytical Chemistry*, **2006**, 78, 7284-91 7.8 65
- 337 Sampling frequency, response times and embedded signal filtration in fast, high efficiency liquid chromatography: A tutorial. *Analytica Chimica Acta*, **2016**, 907, 31-44 6.6 63
- 336 Portable flow-injection analyzer with liquid-core waveguide based fluorescence, luminescence, and long path length absorbance detector. *Analytica Chimica Acta*, **2003**, 479, 151-165 6.6 63
- 335 Determination of trace perchlorate in high-salinity water samples by ion chromatography with on-line preconcentration and preelution. *Analytical Chemistry*, **2003**, 75, 701-6 7.8 63
- 334 Intake of iodine and perchlorate and excretion in human milk. *Environmental Science & Technology*, **2008**, 42, 8115-21 10.3 62
- 333 Perchlorate in seawater: bioconcentration of iodide and perchlorate by various seaweed species. *Analytica Chimica Acta*, **2006**, 567, 100-7 6.6 62
- 332 Variations and sources of ambient formaldehyde for the 2008 Beijing Olympic games. *Atmospheric Environment*, **2010**, 44, 2632-2639 5.3 61
- 331 Measurement of ambient nitrous acid and a reliable calibration source for gaseous nitrous acid. *Environmental Science & Technology*, **1991**, 25, 255-260 10.3 60
- 330 Wet effluent denuder coupled liquid/ion chromatography systems. *Analytical Chemistry*, **1991**, 63, 1237-1242 7.8 59
- 329 Field measurement of acid gases and soluble anions in atmospheric particulate matter using a parallel plate wet denuder and an alternating filter-based automated analysis system. *Analytical Chemistry*, **2002**, 74, 1256-68 7.8 58

328	Open tubular anion exchange chromatography. Controlled layered architecture of stationary phase by successive condensation polymerization. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 5462-7	7.8	57
327	Summertime ambient formaldehyde in five U.S. metropolitan areas: Nashville, Atlanta, Houston, Philadelphia, and Tampa. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 4767-83	10.3	57
326	Measurement of gaseous and aqueous trace formaldehyde. <i>Analytica Chimica Acta</i> , <b>2005</b> , 531, 51-68	6.6	55
325	Measurement of atmospheric nitric and nitrous acids with a wet effluent diffusion denuder and low-pressure ion chromatography-postcolumn reaction detection. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 2210-2216	7.8	55
324	Iron(III) modification of <i>Bacillus subtilis</i> membranes provides record sorption capacity for arsenic and endows unusual selectivity for As(V). <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 2251-6	10.3	53
323	Measurement of Gases by a Suppressed Conductometric Capillary Electrophoresis Separation System. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 3853-3860	7.8	52
322	Electrodialytic eluent production and gradient generation in ion chromatography. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 480-486	7.8	51
321	Field instrument for simultaneous large dynamic range measurement of atmospheric hydrogen sulfide, methanethiol, and sulfur dioxide. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 1529-36	10.3	50
320	Membrane interfaces for sample introduction in capillary zone electrophoresis. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 991-996	7.8	50
319	Flow-injection analysis in the capillary format using electroosmotic pumping. <i>Analytica Chimica Acta</i> , <b>1992</b> , 268, 1-6	6.6	48
318	Simultaneous photometric flow-injection determination of sulfide, polysulfide, sulfite, thiosulfate, and sulfate. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 427-432	7.8	48
317	Superheated water eluent capillary liquid chromatography. <i>Talanta</i> , <b>2002</b> , 56, 977-87	6.2	47
316	A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis. <i>Analytica Chimica Acta</i> , <b>1996</b> , 326, 13-22	6.6	47
315	Electrodialytic membrane suppressor for ion chromatography. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 939-945	7.8	47
314	A diffusion scrubber for the collection of atmospheric gases. <i>Atmospheric Environment</i> , <b>1984</b> , 18, 1593-1599		47
313	Fluorometric field instrument for continuous measurement of atmospheric hydrogen sulfide. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5716-24	7.8	46
312	Comparison of techniques for measurement of ambient levels of hydrogen peroxide. <i>Environmental Science &amp; Technology</i> , <b>1988</b> , 22, 53-61	10.3	46
311	Sensing parts per million levels of gaseous NO <sub>2</sub> by a optical fiber transducer based on calix[4]arenes. <i>Talanta</i> , <b>2009</b> , 77, 1814-20	6.2	45

310	A capacitance sensor for water: trace moisture measurement in gases and organic solvents. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8891-7	7.8	44
309	A continuous analyzer for soluble anionic constituents and ammonium in atmospheric particulate matter. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 5711-20	10.3	44
308	Chemiluminescence detection with a liquid core waveguide: Determination of ammonium with electrogenerated hypochlorite based on the luminol-hypochlorite reaction. <i>Analytica Chimica Acta</i> , <b>1999</b> , 398, 33-39	6.6	44
307	Small-Volume Raman Spectroscopy with a Liquid Core Waveguide. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2934-2938	7.8	44
306	Automated Measurement of Atmospheric Trace Gases. <i>Advances in Chemistry Series</i> , <b>1993</b> , 41-90		44
305	A gas-phase chemiluminescence-based analyzer for waterborne arsenic. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7088-97	7.8	43
304	A disposable blood cyanide sensor. <i>Analytica Chimica Acta</i> , <b>2013</b> , 768, 129-35	6.6	42
303	Free solution hydrodynamic separation of DNA fragments from 75 to 106,000 base pairs in a single run. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 40-1	16.4	42
302	Determination of oxidative stability of oils and fats. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1692-8	7.8	42
301	Liquid chromatographic determination of nitro-substituted polynuclear aromatic hydrocarbons by sequential electrochemical and fluorescence detection. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1226-32	7.8	42
300	Flow-injection extraction without phase separation based on dual-wavelength spectrophotometry. <i>Analytica Chimica Acta</i> , <b>1994</b> , 288, 237-245	6.6	42
299	Nanocapillaries for open tubular chromatographic separations of proteins in femtoliter to picoliter samples. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7428-35	7.8	41
298	Measurement of atmospheric formaldehyde with a diffusion scrubber and light-emitting diode-liquid-core waveguide based fluorometry. <i>Field Analytical Chemistry and Technology</i> , <b>2001</b> , 5, 2-12		41
297	Electroosmotically pumped capillary flow-injection analysis. <i>Analytica Chimica Acta</i> , <b>1993</b> , 283, 739-745	6.6	41
296	Compact, field-portable capillary ion chromatograph. <i>Journal of Chromatography A</i> , <b>1998</b> , 804, 45-54	4.5	40
295	Durable microfabricated high-speed humidity sensors. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 2561-7	7.8	40
294	Pulsed excitation source multiplexed fluorometry for the simultaneous measurement of multiple analytes. Continuous measurement of atmospheric hydrogen peroxide and methyl hydroperoxide. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 1203-10	7.8	40
293	Hybrid microfabricated device for field measurement of atmospheric sulfur dioxide. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 5890-6	7.8	40

292	Optical fiber coupled light emitting diode based absorbance detector with a reflective flow cell. <i>Talanta</i> , <b>1999</b> , 50, 481-90	6.2	40
291	Determination of hydrogen peroxide by photoinduced fluorogenic reactions. <i>Analytica Chimica Acta</i> , <b>1991</b> , 243, 207-216	6.6	40
290	Application of a nested loop system for the flow injection analysis of trace aqueous peroxides. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 1009-1012	7.8	40
289	Cobinamide-based cyanide analysis by multiwavelength spectrometry in a liquid core waveguide. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6244-50	7.8	39
288	Sample processing method for the determination of perchlorate in milk. <i>Analytica Chimica Acta</i> , <b>2006</b> , 567, 73-8	6.6	39
287	Capillary ion chromatography. <i>Journal of Separation Science</i> , <b>2004</b> , 27, 1441-57	3.4	39
286	Dual-wavelength photometry with light emitting diodes. Compensation of refractive index and turbidity effects in flow-injection analysis. <i>Analytica Chimica Acta</i> , <b>1994</b> , 289, 347-353	6.6	38
285	Measurement of atmospheric sulfur dioxide by diffusion scrubber coupled ion chromatography. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 19-24	7.8	38
284	Rapid point of care analyzer for the measurement of cyanide in blood. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4319-24	7.8	37
283	An automated hydride generation interface to ICPMS for measuring total arsenic in environmental samples. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 9737-43	7.8	37
282	Trace gas measurement with an integrated porous tube collector/long-path absorbance detector. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4050-6	7.8	37
281	Photometric measurement of trace As(III) and As(V) in drinking water. <i>Talanta</i> , <b>2002</b> , 58, 153-64	6.2	37
280	Multipath cells for extending dynamic range of optical absorbance measurements. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 1401-1403	7.8	37
279	Cobinamide chemistries for photometric cyanide determination. A merging zone liquid core waveguide cyanide analyzer using cyanoaquacobinamide. <i>Analytica Chimica Acta</i> , <b>2012</b> , 736, 78-84	6.6	36
278	Capillary Ion Chromatography with On-Line High-Pressure Electrodealytic NaOH Eluent Production and Gradient Generation. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 1385-91	7.8	36
277	Computer-Interfaced Bipolar Pulse Conductivity Detector for Capillary Systems. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 2537-2543	7.8	36
276	Fluorimetric determination of trace hydrogen peroxide in water with a flow injection system. <i>Analytica Chimica Acta</i> , <b>1985</b> , 170, 347-352	6.6	36
275	Poly(vinyl alcohol) Modified Porous Graphitic Carbon Stationary Phase for Hydrophilic Interaction Liquid Chromatography. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4676-81	7.8	36



274	Expanding the linear dynamic range for multiple reaction monitoring in quantitative liquid chromatography-tandem mass spectrometry utilizing natural isotopologue transitions. <i>Talanta</i> , <b>2011</b> , 87, 307-10	6.2	35
273	Green analyzer for the measurement of total arsenic in drinking water: electrochemical reduction of arsenate to arsine and gas phase chemiluminescence with ozone. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3467-73	7.8	35
272	Automated measurement of urinary creatinine by multichannel kinetic spectrophotometry. <i>Analytical Biochemistry</i> , <b>2009</b> , 384, 238-44	3.1	35
271	Hybrid fluorometric flow analyzer for ammonia. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 1890-6	7.8	35
270	Capillary scale admittance detection. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11538-46	7.8	34
269	Live HeLa cells preconcentrate and differentiate inorganic arsenic species. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1291-6	7.8	34
268	Speciation-capable field instrument for the measurement of arsenite and arsenate in water. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 4765-73	7.8	34
267	Determination of sulfide and mercaptans in caustic scrubbing liquor. <i>Analytica Chimica Acta</i> , <b>1989</b> , 226, 165-170	6.6	34
266	Annular helical suppressor for ion chromatography. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 103-105	7.8	34
265	Porous membrane-based diffusion scrubber for the sampling of atmospheric gases. <i>Analyst, The</i> , <b>1986</b> , 111, 87	5	34
264	Creatinine adjustment of spot urine samples and 24 h excretion of iodine, selenium, perchlorate, and thiocyanate. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 9419-23	10.3	33
263	Preconcentration/preelution ion chromatography for the determination of perchlorate in complex samples. <i>Talanta</i> , <b>2005</b> , 65, 750-5	6.2	33
262	Continuous automated measurement of hexavalent chromium in airborne particulate matter. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 2034-40	7.8	33
261	On-line electrodialytic salt removal in electrospray ionization mass spectrometry of proteins. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1015-21	7.8	32
260	Fiber optic sensor for simultaneous determination of atmospheric nitrogen dioxide, ozone, and relative humidity. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 4183-91	7.8	32
259	Measurement of gaseous hydrogen peroxide with a liquid core waveguide chemiluminescence detector. <i>Analytica Chimica Acta</i> , <b>2001</b> , 442, 63-70	6.6	32
258	Admittance detector for high impedance systems: design and applications. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11547-53	7.8	31
257	On-line gas-free electrodialytic eluent generator for capillary ion chromatography. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 40-7	7.8	31



256	Liquid chromatographic arsenic speciation with gas-phase chemiluminescence detection. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 9197-204	7.8	31
255	Dispersion in open tubular reactors of various geometries. <i>Analytica Chimica Acta</i> , <b>2001</b> , 428, 163-171	6.6	31
254	Gradient anion chromatography with hydroxide and carbonate eluents using simultaneous conductivity and pH detection. <i>Analytical Chemistry</i> , <b>1987</b> , 59, 802-808	7.8	31
253	Simultaneous Electrodialytic Preconcentration and Speciation of Chromium(III) and Chromium(VI). <i>Analytical Chemistry</i> , <b>2015</b> , 87, 11575-80	7.8	30
252	Formaldehyde content of atmospheric aerosol. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 6636-6643	7.8	30
251	An affordable high-performance optical absorbance detector for capillary systems. <i>Analytica Chimica Acta</i> , <b>1997</b> , 342, 123-132	6.6	30
250	Matrix interference free determination of perchlorate in urine by ion association-ion chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , <b>2006</b> , 567, 79-86	6.6	30
249	Continuous on-line true titrations by feedback-based flow ratiometry. The principle of compensating errors. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 4713-20	7.8	30
248	Determination of total mercury in water and urine by a gold film sensor following Fenton's reagent digestion. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 1230-5	7.8	30
247	Auxiliary Electroosmotic Pumping in Capillary Electrophoresis. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 3060-3065	7.8	29
246	Amperometric microsensor for water. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 1935-1942	7.8	29
245	Applications of in situ detection with an auto-mated micro batch analyzer. <i>Analytica Chimica Acta</i> , <b>1988</b> , 214, 107-120	6.6	29
244	An open tubular ion chromatograph. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11554-61	7.8	28
243	Versatile gas/particle ion chromatograph. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 962-8	10.3	28
242	NEW APPLICATIONS OF CHEMILUMINESCENCE FOR SELECTIVE GAS ANALYSIS. <i>Chemical Engineering Communications</i> , <b>2007</b> , 195, 82-97	2.2	27
241	Membrane-based parallel plate denuder for the collection and removal of soluble atmospheric gases. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 1204-10	7.8	27
240	Measurement of nitrogen dioxide and nitrous acid using gas-permeable liquid core waveguides. <i>Analytica Chimica Acta</i> , <b>2001</b> , 431, 169-180	6.6	27
239	Two-dimensional conductometric detection in ion chromatography: sequential suppressed and single column detection. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 1192-1198	7.8	27

238	A Diffusion Scrubber for the Collection of Gaseous Nitric Acid. <i>Separation Science and Technology</i> , <b>1987</b> , 22, 1255-1267	2.5	27
237	A Multiple Parallel Plate Wetted Screen Diffusion Denuder for High-Flow Air Sampling Applications. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 5018-5023	7.8	26
236	Use of a capacitance measurement device for surrogate noncontact conductance measurement. <i>Talanta</i> , <b>2008</b> , 76, 617-20	6.2	26
235	Hot eluent capillary liquid chromatography using zirconia and titania based stationary phases. <i>Analytica Chimica Acta</i> , <b>2000</b> , 414, 71-78	6.6	26
234	A continuous film-recirculable drop gas-liquid equilibration device. Measurement of trace gaseous ammonia. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 3165-70	7.8	26
233	Electromigration injection from a small loop in capillary electrophoresis. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 4291-9	7.8	26
232	Performance of annular membrane and screen-tee reactors for postcolumn-reaction detection of metal ions separated by liquid chromatography. <i>Analytical Chemistry</i> , <b>1987</b> , 59, 85-90	7.8	26
231	Trace determination of aqueous sulfite, sulfide and methanethiol by fluorometric flow injection analysis. <i>Analytical Chemistry</i> , <b>1986</b> , 58, 2839-2844	7.8	26
230	Perchlorate, iodine supplements, iodized salt and breast milk iodine content. <i>Science of the Total Environment</i> , <b>2012</b> , 420, 73-8	10.2	25
229	A cold plasma dielectric barrier discharge atomic emission detector for atmospheric mercury. <i>Talanta</i> , <b>2010</b> , 81, 1109-15	6.2	25
228	Can breath isoprene be measured by ozone chemiluminescence?. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 2641-9	7.8	25
227	Chemiluminometric measurement of atmospheric ozone with photoactivated chromotropic acid. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 5916-25	7.8	25
226	Microscale continuous ion exchanger. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 5667-75	7.8	25
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224	On-line electrodialytic matrix isolation for chromatographic determination of organic acids in wine. <i>Journal of Chromatography A</i> , <b>2014</b> , 1372C, 18-24	4.5	24
223	Capillary scale light emitting diode based multi-reflection absorbance detector. <i>Analytica Chimica Acta</i> , <b>2007</b> , 605, 166-74	6.6	24
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64	Automated programmable pressurized carbonic acid eluent ion exclusion chromatography of organic acids. <i>Journal of Chromatography A</i> , <b>2017</b> , 1523, 300-308	4.5	6
63	Cavity-enhanced absorption measurements across broad absorbance and reflectivity ranges. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3727-34	7.8	6
62	Admittance Scanning for Whole Column Detection. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 7203-7209	7.8	6
61	A microfabricated amperometric moisture sensor. <i>Talanta</i> , <b>2002</b> , 56, 309-21	6.2	6
60	A simple instrument for ultraviolet-visible absorption spectrophotometry in high temperature molten salt media. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 2283-2287	1.7	6
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56	Novel automated micro batch analyzer. <i>Review of Scientific Instruments</i> , <b>1988</b> , 59, 2609-2615	1.7	6
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54	Continuous measurement of elemental composition of ambient aerosol by induction-coupled plasma mass spectrometry. <i>Talanta</i> , <b>2018</b> , 177, 197-202	6.2	6
53	Carbonic Acid Eluent Ion Chromatography. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3636-3644	7.8	5
52	Inline Shunt Flow Monitor for Hydrocephalus. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8170-8176	7.8	5
51	Anion composition of aβ-extracts. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 5928-35	5.7	5
50	Chromatography on water-ice. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 4079-81	7.8	5
49	Response to Comment on Perchlorate and Iodide in Dairy and Breast Milk. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 5499-5500	10.3	5
48	Response to Comment on Perchlorate and Iodide in Dairy and Breast Milk. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 5902-5903	10.3	5
47	Determination of acid dissociation constants based on continuous titration by feedback-based flow radiometry. <i>Talanta</i> , <b>2004</b> , 64, 1169-74	6.2	5
46	An electrostatic micro-collection interface for aerosol collection. Automated ion Chromatographic analysis of aerosols. <i>Talanta</i> , <b>1996</b> , 43, 1681-8	6.2	5
45	Identification of ions in anion chromatography by stopped flow chronoamperometry. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 1387-1392	7.8	5
44	Automated determination of total phosphorus in aqueous samples. <i>Talanta</i> , <b>1991</b> , 38, 133-7	6.2	5
43	Versatile instrument for pulse width measurement. <i>Analytical Chemistry</i> , <b>1986</b> , 58, 507-509	7.8	5
42	A ring oven method for the determination of sulfate at nanogram levels. <i>Mikrochimica Acta</i> , <b>1978</b> , 70, 505-510	5.8	5
41	Inline flow sensor for ventriculoperitoneal shunts: Experimental evaluation in swine. <i>Medical Engineering and Physics</i> , <b>2019</b> , 67, 66-72	2.4	4

40	Attenuation Coefficients of Tubular Conduits for Liquid Phase Absorbance Measurement: Shot Noise Limited Optimum Path Length. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9481-9489	7.8	4
39	Time-of-Sight Liquid Flow Measurements in the Low Nanoliters per Minute Scale. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 14332-14339	7.8	4
38	Nonlinear absorbance amplification using a diffuse reflectance cell: total organic carbon monitoring at 214 nm. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 1111-7	7.8	4
37	Comment on Hydrofluoric Acid in the Southern California Atmosphere. <i>Environmental Science &amp; Technology</i> , <b>1998</b> , 32, 427-427	10.3	4
36	Determination of dissociation constants of weak acids by feedback-based flow ratiometry. <i>Analytica Chimica Acta</i> , <b>2003</b> , 499, 199-204	6.6	4
35	Determination of oxidative stability of lipids in solid samples. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2000</b> , 77, 217-222	1.8	4
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32	Determination of urinary mercury with an automated micro batch analyzer. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 85-8	7.8	4
31	An automated sequential injection analysis system for the determination of trace endotoxin levels in water. <i>PDA Journal of Pharmaceutical Science and Technology</i> , <b>2003</b> , 57, 12-24	0.6	4
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22	Conductometric Gradient Ion Exclusion Chromatography for Volatile Fatty Acids. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 12323-12329	7.8	2
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