

# Luis F Capitan-Vallvey

## List of Publications by Citations

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293  
papers

6,093  
citations

37  
h-index

60  
g-index

297  
ext. papers

6,761  
ext. citations

5.1  
avg, IF

5.79  
L-index

#	Paper	IF	Citations
293	Smartphone-based simultaneous pH and nitrite colorimetric determination for paper microfluidic devices. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9554-62	7.8	288
292	Carbon dots for copper detection with down and upconversion fluorescent properties as excitation sources. <i>Chemical Communications</i> , <b>2013</b> , 49, 1103-5	5.8	226
291	Use of the hue parameter of the hue, saturation, value color space as a quantitative analytical parameter for bitonal optical sensors. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 531-42	7.8	169
290	Recent developments in computer vision-based analytical chemistry: A tutorial review. <i>Analytica Chimica Acta</i> , <b>2015</b> , 899, 23-56	6.6	147
289	Convenient methods for the synthesis of ferrocene-carbohydrate conjugates. <i>Organic Letters</i> , <b>2004</b> , 6, 3687-90	6.2	125
288	Determination of hypochlorite in water using a chemiluminescent test strip. <i>Analytica Chimica Acta</i> , <b>2004</b> , 522, 267-273	6.6	122
287	Mobile phone platform as portable chemical analyzer. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 156, 350-359	8.59	115
286	Recent developments in handheld and portable optosensing-a review. <i>Analytica Chimica Acta</i> , <b>2011</b> , 696, 27-46	6.6	103
285	Properties and Printability of Inkjet and Screen-Printed Silver Patterns for RFID Antennas. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 604-617	1.9	99
284	Design and characterization of a low thermal drift capacitive humidity sensor by inkjet-printing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 195, 123-131	8.5	92
283	Using the mobile phone as Munsell soil-colour sensor: An experiment under controlled illumination conditions. <i>Computers and Electronics in Agriculture</i> , <b>2013</b> , 99, 200-208	6.5	88
282	Simultaneous determination of antioxidants, preservatives and sweetener additives in food and cosmetics by flow injection analysis coupled to a monolithic column. <i>Analytica Chimica Acta</i> , <b>2007</b> , 594, 226-33	6.6	78
281	Disposable electrochemiluminescent biosensor for lactate determination in saliva. <i>Analyst</i> , <b>2009</b> , 134, 1423-32	5	71
280	Ferrocene-carbohydrate conjugates as electrochemical probes for molecular recognition studies. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 710-25	4.8	66
279	Fast prototyping of paper-based microfluidic devices by contact stamping using indelible ink. <i>RSC Advances</i> , <b>2013</b> , 3, 18811	3.7	63
278	Screen printed flexible radiofrequency identification tag for oxygen monitoring. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 11098-105	7.8	63
277	Microsystem-assisted synthesis of carbon dots with fluorescent and colorimetric properties for pH detection. <i>Nanoscale</i> , <b>2014</b> , 6, 6018-24	7.7	61

276	A General Perspective of the Characterization and Quantification of Nanoparticles: Imaging, Spectroscopic, and Separation Techniques. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2014</b> , 39, 423-458	10.1	59
275	Microfluidic paper-based device for colorimetric determination of glucose based on a metal-organic framework acting as peroxidase mimetic. <i>Mikrochimica Acta</i> , <b>2017</b> , 185, 47	5.8	53
274	Full-range optical pH sensor based on imaging techniques. <i>Analytica Chimica Acta</i> , <b>2010</b> , 681, 71-81	6.6	52
273	Heavy metal concentrations in the general population of Andalusia, South of Spain: a comparison with the population within the area of influence of Aznalcollar mine spill (SW Spain). <i>Science of the Total Environment</i> , <b>2006</b> , 372, 49-57	10.2	52
272	A novel electrode structure compared with interdigitated electrodes as capacitive sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 204, 552-560	8.5	50
271	Solid-phase spectrophotometric determination of trace amounts of hydrazine at sub-ng mL <sup>-1</sup> level. <i>Analytica Chimica Acta</i> , <b>1997</b> , 353, 115-122	6.6	50
270	Printed electrodes structures as capacitive humidity sensors: A comparison. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 244, 56-65	3.9	50
269	Passive UHF RFID tag with multiple sensing capabilities. <i>Sensors</i> , <b>2015</b> , 15, 26769-82	3.8	49
268	A 3D $\mu$ PAD based on a multi-enzyme organic-inorganic hybrid nanoflower reactor. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 77, 51-5	11.8	48
267	Analysis of parabens in cosmetics by low pressure liquid chromatography with monolithic column and chemiluminescent detection. <i>Talanta</i> , <b>2009</b> , 79, 499-506	6.2	47
266	Solid-phase ultraviolet absorbance spectrophotometric multisensor for the simultaneous determination of butylated hydroxytoluene and co-existing antioxidants. <i>Analytica Chimica Acta</i> , <b>2004</b> , 503, 179-186	6.6	46
265	Determination of colorant matters mixtures in foods by solid-phase spectrophotometry. <i>Analytica Chimica Acta</i> , <b>1996</b> , 331, 141-148	6.6	46
264	Surface Modified Thread-Based Microfluidic Analytical Device for Selective Potassium Analysis. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5331-7	7.8	46
263	Flow injection analysis of the insecticide imidacloprid in water samples with photochemically induced fluorescence detection. <i>Analytica Chimica Acta</i> , <b>2001</b> , 439, 299-305	6.6	43
262	Simultaneous determination of the colorants tartrazine, ponceau 4R and sunset yellow FCF in foodstuffs by solid phase spectrophotometry using partial least squares multivariate calibration. <i>Talanta</i> , <b>1998</b> , 47, 861-868	6.2	41
261	Application of Liquid Chromatography to the Simultaneous Determination of Acetylsalicylic Acid, Caffeine, Codeine, Paracetamol, Pyridoxine, and Thiamine in Pharmaceutical Preparations. <i>Journal of AOAC INTERNATIONAL</i> , <b>2001</b> , 84, 676-683	1.7	41
260	Determination of thiabendazole residues in waters by solid-phase spectrofluorometry. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 1336-9	7.8	41
259	A new light emitting diode-light emitting diode portable carbon dioxide gas sensor based on an interchangeable membrane system for industrial applications. <i>Analytica Chimica Acta</i> , <b>2011</b> , 699, 216-22	6.6	40

258	Full-range optical pH sensor array based on neural networks. <i>Microchemical Journal</i> , <b>2011</b> , 97, 225-233	4.8	40
257	Determination of O <sub>2</sub> using colour sensing from image processing with mobile devices. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 171-172, 938-945	8.5	38
256	HF RFID Tag as Humidity Sensor: Two Different Approaches. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 5726-5733	4	37
255	Fluorescence resonance energy transfer disposable sensor for copper(II). <i>Analytica Chimica Acta</i> , <b>2006</b> , 555, 299-307	6.6	36
254	Determination of five nitroimidazoles in water by liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2002</b> , 978, 243-8	4.5	35
253	Characterisation of a transparent optical test strip for quantification of water hardness. <i>Analytica Chimica Acta</i> , <b>2003</b> , 481, 139-148	6.6	35
252	Simultaneous determination of aluminium and beryllium by first-derivative synchronous solid-phase spectrofluorimetry. <i>Talanta</i> , <b>1992</b> , 39, 21-7	6.2	35
251	Environmental monitoring using a conventional photographic digital camera for multianalyte disposable optical sensors. <i>Analytica Chimica Acta</i> , <b>2011</b> , 706, 328-37	6.6	34
250	Design and Development of Sensing RFID Tags on Flexible Foil Compatible With EPC Gen 2. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 4361-4371	4	33
249	Disposable biosensor based on cathodic electrochemiluminescence of tris(2,2-bipyridine)ruthenium(II) for uric acid determination. <i>Analytica Chimica Acta</i> , <b>2013</b> , 770, 153-60	6.6	33
248	Electrochemiluminescent disposable cholesterol biosensor based on avidin-biotin assembling with the electroformed luminescent conducting polymer poly(luminol-biotinylated pyrrole). <i>Analytica Chimica Acta</i> , <b>2012</b> , 754, 91-8	6.6	32
247	Sensor array-based optical portable instrument for determination of pH. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 156, 840-848	8.5	32
246	Simultaneous determination of molybdenum and tungsten by first-derivative synchronous solid-phase spectrofluorimetry. <i>Analytica Chimica Acta</i> , <b>1992</b> , 259, 345-353	6.6	32
245	Printed disposable colorimetric array for metal ion discrimination. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8634-41.8	4.8	31
244	A printed capacitive/resistive double sensor for toluene and moisture sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 210, 542-549	8.5	31
243	Study of the GC-MS determination of the palmitic-stearic acid ratio for the characterisation of drying oil in painting: La Encarnación by Alonso Cano as a case study. <i>Talanta</i> , <b>2011</b> , 84, 1148-54	6.2	31
242	Thermochromic sensor design based on Fe(II) spin crossover/polymers hybrid materials and artificial neural networks as a tool in modelling. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 208, 180-187	8.5	30
241	Preliminary study of UV ageing process of proteinaceous paint binder by FT-IR and principal component analysis. <i>Talanta</i> , <b>2009</b> , 77, 1724-31	6.2	30

240	Determination of beryllium in water by ion-exchange spectrofluorimetry. <i>Analyst, The</i> , <b>1989</b> , 114, 969-973		30
239	Phosphorescent sensing of carbon dioxide based on secondary inner-filter quenching. <i>Analytica Chimica Acta</i> , <b>2009</b> , 655, 66-74	6.6	29
238	Resolution of mixtures of three nonsteroidal anti-inflammatory drugs by fluorescence using partial least squares multivariate calibration with previous wavelength selection by Kohonen artificial neural networks. <i>Talanta</i> , <b>2000</b> , 52, 1069-1079	6.2	29
237	Flow-injection method for the determination of tin in fruit juices using solid-phase spectrophotometry. <i>Analytica Chimica Acta</i> , <b>1994</b> , 289, 365-370	6.6	29
236	Tetrazine-based chemistry for nitrite determination in a paper microfluidic device. <i>Talanta</i> , <b>2016</b> , 160, 721-728	6.2	29
235	Simultaneous determination of the colorants sunset yellow FCF and quinoline yellow by solid-phase spectrophotometry using partial least squares multivariate calibration. <i>Analyst, The</i> , <b>1997</b> , 122, 351-4	5	27
234	Irreversible optical sensor for mercury determination based on tetraarylborate decomposition. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 117, 135-142	8.5	27
233	Solid-phase UV spectroscopic multisensor for the simultaneous determination of caffeine, dimenhydrinate and acetaminophen by using partial least squares multicalibration. <i>Talanta</i> , <b>1999</b> , 49, 691-701	6.2	27
232	A portable luminometer with a disposable electrochemiluminescent biosensor for lactate determination. <i>Sensors</i> , <b>2009</b> , 9, 7694-710	3.8	26
231	Comparison between traditional strategies and classification technique (SIMCA) in the identification of old proteinaceous binders. <i>Talanta</i> , <b>2008</b> , 75, 697-704	6.2	26
230	Liquid Chromatography-Mass Spectrometry Determination of Six 5-Nitroimidazoles in Animal Feedstuff. <i>Chromatographia</i> , <b>2007</b> , 65, 283-290	2.1	26
229	Resolution of an intense sweetener mixture by use of a flow injection sensor with on-line solid-phase extraction. Application to saccharin and aspartame in sweets and drinks. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 385-91	4.4	26
228	Magnesium optical one-shot sensor based on a coumarin chromoionophore. <i>Talanta</i> , <b>2006</b> , 68, 1663-70	6.2	26
227	Monoparameter sensors for the determination of the antioxidants butylated hydroxyanisole and n-propyl gallate in foods and cosmetics by flow injection spectrophotometry. <i>Analyst, The</i> , <b>2001</b> , 126, 897-902	5	26
226	Real time monitoring of glucose in whole blood by smartphone. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 136, 47-52	11.8	25
225	Printed single-chip UHF passive radio frequency identification tags with sensing capability. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 220, 281-289	3.9	25
224	Inkjet-printed disposable metal complexing indicator-displacement assay for sulphide determination in water. <i>Analytica Chimica Acta</i> , <b>2015</b> , 872, 55-62	6.6	24
223	Disposable electrochromic polyaniline sensor based on a redox response using a conventional camera: A first approach to handheld analysis. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 738, 162-169 <sup>4.1</sup>		24

222	Particle tuning and modulation of the magnetic/colour synergy in Fe(II) spin crossover-polymer nanocomposites in a thermochromic sensor array. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 7292-7303	7.1	24
221	Characterization of disposable optical sensors for heavy metal determination. <i>Talanta</i> , <b>2012</b> , 94, 123-32	6.2	24
220	Scanometric potassium determination with ionophore-based disposable sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 134, 694-701	8.5	24
219	Irreversible optical test strip for mercury determination based on neutral ionophore. <i>Analytica Chimica Acta</i> , <b>2004</b> , 524, 365-372	6.6	24
218	Water based-ionic liquid carbon dioxide sensor for applications in the food industry. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 253, 302-309	8.5	23
217	Feasibility of the use of disposable optical tongue based on neural networks for heavy metal identification and determination. <i>Analytica Chimica Acta</i> , <b>2013</b> , 783, 56-64	6.6	23
216	Oxygen-sensing film coated photodetectors for portable instrumentation. <i>Analytica Chimica Acta</i> , <b>2007</b> , 583, 166-73	6.6	23
215	Microcontroller-based portable instrument for stabilised optical oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 629-638	8.5	23
214	Determination of protein content using a solid phase spectrophotometric procedure. <i>Analytica Chimica Acta</i> , <b>2001</b> , 433, 155-163	6.6	23
213	Determination of polycyclic aromatic hydrocarbon residues in water by synchronous solid-phase spectrofluorimetry. <i>Analyst, The</i> , <b>1994</b> , 119, 1211-1214	5	23
212	Disposable luminol copolymer-based biosensor for uric acid in urine. <i>Analytica Chimica Acta</i> , <b>2011</b> , 702, 254-61	6.6	22
211	SPE biosensor for cholesterol in serum samples based on electrochemiluminescent luminol copolymer. <i>Talanta</i> , <b>2011</b> , 86, 178-85	6.2	22
210	An IUPAC-based approach to estimate the detection limit in co-extraction-based optical sensors for anions with sigmoidal response calibration curves. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 2881-9	4.4	22
209	Parabens determination with a hybrid FIA/HPLC system with ultra-short monolithic column. <i>Journal of Analytical Chemistry</i> , <b>2010</b> , 65, 188-194	1.1	22
208	Revisitation of the phenylisothiocyanate-derivatives procedure for amino acid determination by HPLC-UV. <i>Journal of Separation Science</i> , <b>2008</b> , 31, 3817-28	3.4	22
207	A disposable single-use optical sensor for potassium determination based on neutral ionophore. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 88, 217-222	8.5	22
206	Development and use of specific ELISA methods for quantifying the biological activity of bevacizumab, cetuximab and trastuzumab in stability studies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2016</b> , 1032, 155-164	3.2	22
205	General-purpose passive wireless point-of-care platform based on smartphone. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 141, 111360	11.8	21

204	Multi-ion detection by one-shot optical sensors using a colour digital photographic camera. <i>Analyst, The</i> , <b>2011</b> , 136, 3917-26	5	21
203	Chemiluminescence determination of sodium 2-mercaptoethane sulfonate by flow injection analysis using cerium(IV) sensitized by quinine. <i>Talanta</i> , <b>2000</b> , 51, 1155-1161	6.2	21
202	Discrimination of aged mixtures of lipidic paint binders by Raman spectroscopy and chemometrics. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 781-786	2.3	20
201	Disposable receptor-based optical sensor for nitrate. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 4459-66	7.8	20
200	Optical test strip for calcium determination based on a neutral ionophore. <i>Analytica Chimica Acta</i> , <b>2002</b> , 451, 231-241	6.6	20
199	Determination of calcium by a single-use optical sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 71, 140-146	8.5	20
198	Photographing the synergy between magnetic and colour properties in spin crossover material [Fe(NH <sub>2</sub> trz) <sub>3</sub> ](BF <sub>4</sub> ) <sub>2</sub> : a temperature sensor perspective. <i>Chemical Communications</i> , <b>2013</b> , 49, 288-90	5.8	19
197	Multianalyte imaging in one-shot format sensors for natural waters. <i>Analytica Chimica Acta</i> , <b>2009</b> , 636, 210-7	6.6	19
196	One-shot lactate chemiluminescent biosensor. <i>Analytica Chimica Acta</i> , <b>2008</b> , 629, 136-44	6.6	19
195	Determination of the antibiotic zinc bacitracin in animal food by high-performance liquid chromatography with ultraviolet detection. <i>Chromatographia</i> , <b>2001</b> , 54, 15-20	2.1	19
194	Passive UHF RFID Tag for Multispectral Assessment. <i>Sensors</i> , <b>2016</b> , 16,	3.8	19
193	Evaluation of a reconfigurable portable instrument for copper determination based on luminescent carbon dots. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 3013-20	4.4	18
192	Compact optical instrument for simultaneous determination of oxygen and carbon dioxide. <i>Mikrochimica Acta</i> , <b>2011</b> , 172, 455-464	5.8	18
191	High-performance liquid chromatography determination of Zn-bacitracin in animal feed by post-column derivatization and fluorescence detection. <i>Journal of Chromatography A</i> , <b>2002</b> , 943, 227-344.5	4.5	18
190	Development of a One-Shot Optical Citrate Sensor Based on a Guanidinium Synthetic Receptor. <i>Mikrochimica Acta</i> , <b>2005</b> , 151, 93-100	5.8	18
189	Rapid Ultraviolet Spectrophotometric and Liquid Chromatographic Methods for the Determination of Natamycin in Lactoserum Matrix. <i>Journal of AOAC INTERNATIONAL</i> , <b>2000</b> , 83, 802-808	1.7	18
188	Determination of trace amounts of aluminium in natural waters by solid-phase spectrofluorimetry. <i>Analyst, The</i> , <b>1993</b> , 118, 303-307	5	18
187	Ionophore-Based Optical Sensor for Urine Creatinine Determination. <i>ACS Sensors</i> , <b>2019</b> , 4, 421-426	9.2	17



186	Optical humidity sensor using methylene blue immobilized on a hydrophilic polymer. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 220, 528-533	8.5	17
185	Portable reconfigurable instrument for analytical determinations using disposable electrochemiluminescent screen-printed electrodes. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 169, 46-53	8.5	17
184	Hand-held optical instrument for CO <sub>2</sub> in gas phase based on sensing film coating optoelectronic elements. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 144, 232-238	8.5	17
183	Improved Multianalyte Determination of the Intense Sweeteners Aspartame and Acesulfame-K with a Solid Sensing Zone Implemented in an FIA Scheme. <i>Analytical Letters</i> , <b>2006</b> , 39, 1333-1347	2.2	17
182	Determination of trace aluminum in natural waters by ion exchanger fluorometry.. <i>Analytical Sciences</i> , <b>1989</b> , 5, 549-555	1.7	17
181	An LTCC monolithic microreactor for the synthesis of carbon dots with photoluminescence imaging of the reaction progress. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126613	8.5	16
180	A simplified measurement procedure and portable electronic photometer for disposable sensors based on ionophore-chromionophore chemistry for potassium determination. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 1215-24	4.4	16
179	Simple Resolution of Butylated Hydroxyanisole and n-Propyl Gallate in Fatty Foods and Cosmetics Samples by Flow-Injection Solid-Phase Spectrophotometry. <i>Journal of Food Science</i> , <b>2003</b> , 68, 1595-1599	3.4	16
178	Solid-phase spectrophotometric determination of trace amounts of vanadium at sub-ng/ml level with 4-(2-pyridylazo)resorcinol. <i>Talanta</i> , <b>1995</b> , 42, 1057-65	6.2	16
177	First-derivative solid-phase spectrophotometric determination of molybdenum at the ng ml <sup>(-1)</sup> level. <i>Talanta</i> , <b>1996</b> , 43, 185-91	6.2	16
176	The Effects of Light-Accelerated Degradation on the Aggregation of Marketed Therapeutic Monoclonal Antibodies Evaluated by Size-Exclusion Chromatography With Diode Array Detection. <i>Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 105, 1405-18	3.9	15
175	Comparison of Fabrication Techniques for Flexible UHF RFID Tag Antennas [Wireless Corner]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2017</b> , 59, 159-168	1.7	15
174	Potassium disposable optical sensor based on transfectance and cromaticity measurements. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 586-592	8.5	15
173	Flow-through spectrophotometric sensor for the determination of saccharin in low-calorie products. <i>Food Additives and Contaminants</i> , <b>2004</b> , 21, 32-41		15
172	Single-use optical sensor for the determination of iron in water and white wines. <i>FreseniusqJournal of Analytical Chemistry</i> , <b>2001</b> , 369, 139-44		15
171	Simultaneous determination of quinoline yellow and brilliant blue FCF in cosmetics by solid-phase spectrophotometry. <i>Talanta</i> , <b>1996</b> , 43, 1457-63	6.2	15
170	Determination of Traces of Vanadium with 5-Bomosalicylhydroxamic Acid by Solid-Phase Spectrophotometry. <i>Analytical Letters</i> , <b>1991</b> , 24, 2245-2261	2.2	15
169	Determination of Trace Amounts of Cobalt at sub- $\mu$ g Level by Solid Phase Spectrophotometry. <i>Analytical Letters</i> , <b>1992</b> , 25, 1961-1980	2.2	15



168	Determination of submicrogram amounts of gallium by ion-exchanger fluorimetry Determination of gallium in natural waters. <i>Talanta</i> , <b>1990</b> , 37, 193-9	6.2	15
167	Monitoring of degradation of porous silicon photonic crystals using digital photography. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 410	5	14
166	LED-LED portable oxygen gas sensor. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 2851-8	4.4	14
165	Use of digital reflection devices for measurement using hue-based optical sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 174, 10-17	8.5	14
164	Analysis of phenolic compounds in health care products by low-pressure liquid-chromatography with monolithic column and chemiluminescent detection. <i>Luminescence</i> , <b>2011</b> , 26, 44-53	2.5	14
163	Simultaneous Determination of Colorant Mixtures Used in Cosmetics by Partial Least-Squares Multivariate Calibration Spectrophotometry.. <i>Analytical Sciences</i> , <b>1997</b> , 13, 493-496	1.7	14
162	Determination of carbaryl in foods by solid-phase room-temperature phosphorimetry. <i>Freseniusq Journal of Analytical Chemistry</i> , <b>1998</b> , 362, 307-312		14
161	Close overlapping discrimination of polycyclic aromatic hydrocarbons by synchronous scanning at variable-angle solid-phase spectrofluorimetry. <i>Analytica Chimica Acta</i> , <b>1995</b> , 302, 193-200	6.6	14
160	Determination of trace amounts of tungsten with carminic acid by ion-exchange spectrofluorimetry. <i>Analyst, The</i> , <b>1990</b> , 115, 849-854	5	14
159	Rearrangement of 2-(2-thienyl)benzothiazoline in the presence of thiophilic metal ions. <i>Polyhedron</i> , <b>1983</b> , 2, 1147-1153	2.7	14
158	Smart facemask for wireless CO monitoring.. <i>Nature Communications</i> , <b>2022</b> , 13, 72	17.4	14
157	Improved manufacturing process for printed cantilevers by using water removable sacrificial substrate. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 235, 171-181	3.9	13
156	Copolymerization of luminol on screen-printed cells for single-use electrochemiluminescent sensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 3041-51	4.4	13
155	Determination of tramadol, metamizole, ropivacaine, and bupivacaine in analgesic mixture samples by HPLC with DAD detection. <i>Journal of Chromatographic Science</i> , <b>2009</b> , 47, 231-7	1.4	13
154	Intense Sweetener Mixture Resolution by Flow Injection Method with On-Line Monolithic Element. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>2009</b> , 32, 1152-1168	1.3	13
153	Simultaneous determination of tartrazine and sunset yellow in cosmetic products by first-derivative spectrophotometry. <i>Mikrochimica Acta</i> , <b>1997</b> , 126, 153-157	5.8	13
152	Open air calibration with temperature compensation of a luminescence quenching-based oxygen sensor for portable instrumentation. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 3173-9	7.8	13
151	SPECTROFLUORIMETRIC DETERMINATION OF ACETYSALICYLIC ACID AND CODEINE MIXTURES IN PHARMACEUTICALS. <i>Analytical Letters</i> , <b>2001</b> , 34, 579-595	2.2	13

150	Application of partial least squares multivariate calibration for the determination of mixtures of carbaryl and thiabendazole in waters by transmitted solid phase spectrophosphorimetry. <i>Analyst, The</i> , <b>1999</b> , 124, 49-53	5	13
149	Simultaneous determination of benomyl and morestan residues in waters by synchronous solid-phase spectrofluorimetry. <i>Journal of Fluorescence</i> , <b>1995</b> , 5, 225-9	2.4	13
148	Determination of traces of aluminium with chrome azurol S by solid-phase spectrophotometry. <i>Talanta</i> , <b>1993</b> , 40, 1059-66	6.2	13
147	Simultaneous determination of molybdenum and tungsten by first-derivative synchronous spectrofluorimetry. <i>Analyst, The</i> , <b>1989</b> , 114, 1297-1301	5	13
146	Smartphone based meat freshness detection. <i>Talanta</i> , <b>2020</b> , 216, 120985	6.2	12
145	Flexible passive tag based on light energy harvesting for gas threshold determination in sealed environments. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 236, 226-232	8.5	12
144	Thermoresponsive Gold Polymer Nanohybrids with a Tunable Cross-Linked MEO2MA Polymer Shell. <i>Particle and Particle Systems Characterization</i> , <b>2014</b> , 31, 1183-1191	3.1	12
143	Colourimetric characterisation of disposable optical sensors from spectroradiometric measurements. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 393, 1361-6	4.4	12
142	Double-armed crown ethers for calcium optical sensors. <i>Talanta</i> , <b>2009</b> , 78, 1484-8	6.2	12
141	The use of one-shot sensors with a dedicated portable electronic radiometer for nitrate measurements in aqueous solutions. <i>Measurement Science and Technology</i> , <b>2008</b> , 19, 095204	2	12
140	Flow Injection Analysis with On-Line Solid Phase Extraction for Spectrophotometric Determination of Ponceau 4R and its Subsidiary Unsulfonated Dye in Sweets and Cosmetic Products. <i>Mikrochimica Acta</i> , <b>2002</b> , 138, 69-76	5.8	12
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138	Determination of the pesticide morestan by means of a single-use phosphorimetric sensor. <i>Analytica Chimica Acta</i> , <b>2001</b> , 440, 131-141	6.6	12
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135	Studies on the thermal decomposition of some metal complexes of 5,5?-methylendisalicylhydroxamic acid. <i>Thermochemica Acta</i> , <b>1982</b> , 56, 15-23	2.9	12
134	Portable system for photodiode-based electrochemiluminescence measurement with improved limit of detection. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 221, 956-961	8.5	11
133	A vinyl sulfone clicked carbon dot-engineered microfluidic paper-based analytical device for fluorometric determination of biothiols. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 421	5.8	11

132	Compact readout system for chipless passive LC tags and its application for humidity monitoring. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 280, 287-294	3.9	11
131	Optical sensor for carbon dioxide gas determination, characterization and improvements. <i>Talanta</i> , <b>2014</b> , 126, 196-201	6.2	11
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129	FLOW-THROUGH SENSOR FOR DETERMINATION OF BUTYLATED HYDROXYTOLUENE IN COSMETICS. <i>Analytical Letters</i> , <b>2002</b> , 35, 65-81	2.2	11
128	Determination of Trace Amounts of Carbaryl in Water by Solid Phase Spectrofluorimetry. <i>International Journal of Environmental Analytical Chemistry</i> , <b>1993</b> , 53, 139-149	1.8	11
127	Simultaneous determination of sulphathiazole and sulphanilamide in pharmaceuticals by derivative spectrophotometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1991</b> , 9, 117-22	3.5	11
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125	Wireless wearable wristband for continuous sweat pH monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 327, 128948	8.5	11
124	Fast lifetime and amplitude determination in luminescence exponential decays. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 216, 595-602	8.5	10
123	Disposable optical tongue for alkaline ion analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 156, 976-982	8.5	10
122	Logit linearization of analytical response curves in optical disposable sensors based on coextraction for monovalent anions. <i>Analytica Chimica Acta</i> , <b>2006</b> , 561, 156-163	6.6	10
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120	Speciation of selenium (IV) in natural waters by solid phase spectrophotometry. <i>Talanta</i> , <b>1999</b> , 49, 915-26	6.2	10
119	Determination of Ultra-Traces of Anthracene in Water Samples by Solid-Phase Spectrofluorometry.. <i>Analytical Sciences</i> , <b>1993</b> , 9, 117-120	1.7	10
118	Microdetermination of fluoride in water by ion-exchange spectrophotometry. <i>Analyst, The</i> , <b>1988</b> , 113, 419-22	5	10
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115	Highly stable luminescent europium-doped calcium phosphate nanoparticles for creatinine quantification. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 196, 111337	6	9

114	Asymmetric enhanced surface interdigitated electrode capacitor with two out-of-plane electrodes. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 254, 588-596	8.5	9
113	Multisensor probe for soil monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 160, 52-58	8.5	9
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105	Fully 3D-Printed RFID Tags based on Printable Metallic Filament: Performance Comparison with other Fabrication Techniques <b>2019</b> ,		8
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100	Test strip for determination of nitrite in water. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 373, 289-94	4.4	8
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97	Determination of iron at ng/ml level by solid phase spectrophotometry after preconcentration on cation exchange filters. <i>Talanta</i> , <b>1995</b> , 42, 711-5	6.2	8

96	Determination of benomyl residues in waters by solid-phase spectrofluorimetry. <i>Analyst, The</i> , <b>1995</b> , 120, 1609-1611	5	8
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