F Xavier Rius

List of Publications by Year in Descending Order

80	4,538	38	66
papers	citations	h-index	g-index
80	4,934	6.6	5.48
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
80	Artificial receptors for the electrochemical detection of bacterial flagellar filaments from Proteus mirabilis. *Sensors and Actuators B: Chemical*, **2017**, 244, 732-741	8.5	18
79	Characterization of a new ionophore-based ion-selective electrode for the potentiometric determination of creatinine in urine. *Biosensors and Bioelectronics*, **2017**, 87, 587-592	11.8	49
78	Recognition and Sensing of Creatinine. *Angewandte Chemie - International Edition*, **2016**, 55, 2435-40	16.4	41
77	Recognition and Sensing of Creatinine. *Angewandte Chemie*, **2016**, 128, 2481-2486	3.6	5
76	Chloride-selective electrodes based on "two-wall" aryl-extended calix[4]pyrroles: combining hydrogen bonds and anion-interactions to achieve optimum performance. *Chemistry - A European Journal*, **2015**, 21, 448-54	4.8	26
75	A reference electrode based on polyvinyl butyral (PVB) polymer for decentralized chemical measurements. *Analytica Chimica Acta*, **2014**, 821, 72-80	6.6	90
74	A paper-based potentiometric cell for decentralized monitoring of Li levels in whole blood. *Lab on A Chip*, **2014**, 14, 1308-14	7.2	80
73	Computer-operated analytical platform for the determination of nutrients in hydroponic systems. *Food Chemistry*, **2014**, 147, 92-7	8.5	38
72	Graphene-based potentiometric biosensor for the immediate detection of living bacteria. *Biosensors and Bioelectronics*, **2014**, 54, 553-7	11.8	117
71	Rubber-based substrates modified with carbon nanotubes inks to build flexible electrochemical sensors. *Analytica Chimica Acta*, **2014**, 827, 95-102	6.6	29
70	A novel miniaturized radiofrequency potentiometer tag using ion-selective electrodes for wireless ion sensing. *Analyst, The*, **2013**, 138, 5250-7	5	18
69	Potentiometric sensors using cotton yarns, carbon nanotubes and polymeric membranes. *Analyst, The*, **2013**, 138, 5208-15	5	139
68	Carbon nanotube-based aptasensors for the rapid and ultrasensitive detection of bacteria. *Methods*, **2013**, 63, 233-8	4.6	19
67	Ultrasensitive and real-time detection of proteins in blood using a potentiometric carbon-nanotube aptasensor. *Biosensors and Bioelectronics*, **2013**, 41, 366-71	11.8	32
66	Paper-based chemiresistor for detection of ultralow concentrations of protein. *Biosensors and Bioelectronics*, **2013**, 49, 462-5	11.8	28
65	A potassium sensor based on non-covalent functionalization of multi-walled carbon nanotubes. *Analyst, The*, **2013**, 138, 2698-703	5	19
64	Protein detection with potentiometric aptasensors: a comparative study between polyaniline and single-walled carbon nanotubes transducers. *Scientific World Journal, The*, **2013**, 2013, 282756	2.2	6

63	Disruption of small double stranded DNA molecules on carbon nanotubes: A molecular dynamics study. *Chemical Physics Letters*, **2012**, 525-526, 120-124	2.5	15
62	Label-free detection of Staphylococcus aureus in skin using real-time potentiometric biosensors based on carbon nanotubes and aptamers. *Biosensors and Bioelectronics*, **2012**, 31, 226-32	11.8	149
61	Nanostructured assemblies for ion-sensors: functionalization of multi-wall carbon nanotubes with benzo-18-crown-6 for Pb2+ determination. *Journal of Materials Chemistry*, **2012**, 22, 16611		15
60	Reduced Graphene Oxide Films as Solid Transducers in Potentiometric All-Solid-State Ion-Selective Electrodes. *Journal of Physical Chemistry C*, **2012**, 116, 22570-22578	3.8	85
59	Paper-based ion-selective potentiometric sensors. *Analytical Chemistry*, **2012**, 84, 4695-702	7.8	158
58	Disposable planar reference electrode based on carbon nanotubes and polyacrylate membrane. *Analytical Chemistry*, **2011**, 83, 5783-8	7.8	58
57	Potentiometric strip cell based on carbon nanotubes as transducer layer: toward low-cost decentralized measurements. *Analytical Chemistry*, **2011**, 83, 8810-5	7.8	80
56	An effective nanostructured assembly for ion-selective electrodes. An ionophore covalently linked to carbon nanotubes for Pb2+ determination. *Chemical Communications*, **2011**, 47, 2438-40	5.8	62
55	Covalent functionalization of single-walled carbon nanotubes with adenosine monophosphate: Towards the synthesis of SWCNT-Aptamer hybrids. *Materials Science and Engineering C*, **2011**, 31, 1363-1368	8.3	19
54	Nanostructured materials in potentiometry. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 171-81	4.4	66
53	Rapid detection of Aspergillus flavus in rice using biofunctionalized carbon nanotube field effect transistors. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 119-26	4.4	14
52	Solid-state reference electrodes based on carbon nanotubes and polyacrylate membranes. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 3613-22	4.4	51
51	Potentiometric online detection of aromatic hydrocarbons in aqueous phase using carbon nanotube-based sensors. *Analytical Chemistry*, **2010**, 82, 8106-12	7.8	30
50	Real-time potentiometric detection of bacteria in complex samples. *Analytical Chemistry*, **2010**, 82, 9254-60	7.8	151
49	Biosensors based on carbon nanotube-network field-effect transistors. *Methods in Molecular Biology*, **2010**, 625, 213-25	1.4	1
48	Solid-contact potentiometric aptasensor based on aptamer functionalized carbon nanotubes for the direct determination of proteins. *Analyst, The*, **2010**, 135, 1037-41	5	41
47	Determination of calcium ion in sap using carbon nanotube-based ion-selective electrodes. *Analyst, The*, **2010**, 135, 1979-85	5	51
46	Electrochemical sensing based on carbon nanotubes. *TrAC - Trends in Analytical Chemistry*, **2010**, 29, 939-953	10.0	234

45	Immediate detection of living bacteria at ultralow concentrations using a carbon nanotube based potentiometric aptasensor. *Angewandte Chemie - International Edition*, **2009**, 48, 7334-7	16.4	225
44	Improved detection of Candida albicans with carbon nanotube field-effect transistors. *Sensors and Actuators B: Chemical*, **2009**, 136, 451-457	8.5	40
43	Selective detection of SO2 at room temperature based on organoplatinum functionalized single-walled carbon nanotube field effect transistors. *Sensors and Actuators B: Chemical*, **2009**, 141, 97-103	8.5	20
42	Fast picomolar selective detection of bisphenol A in water using a carbon nanotube field effect transistor functionalized with estrogen receptor-alpha. *Biosensors and Bioelectronics*, **2009**, 24, 2842-6	11.8	53
41	Solid-contact pH-selective electrode using multi-walled carbon nanotubes. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 2371-6	4.4	42
40	Morphological and electrical characteristics of biofunctionalized layers on carbon nanotubes. *Biosensors and Bioelectronics*, **2009**, 25, 161-6	11.8	8
39	Determination of choline and derivatives with a solid-contact ion-selective electrode based on octaamide cavitand and carbon nanotubes. *Biosensors and Bioelectronics*, **2009**, 25, 344-9	11.8	43
38	Transduction mechanism of carbon nanotubes in solid-contact ion-selective electrodes. *Analytical Chemistry*, **2009**, 81, 676-81	7.8	175
37	Ion-selective electrodes using multi-walled carbon nanotubes as ion-to-electron transducers for the detection of perchlorate. *Analyst, The*, **2009**, 134, 1905-10	5	73
36	Ion-sensitive field effect transistors using carbon nanotubes as the transducing layer. *Analyst, The*, **2008**, 133, 1001-4	5	18
35	Carbon nanotube field effect transistors for the fast and selective detection of human immunoglobulin G. *Analyst, The*, **2008**, 133, 1005-8	5	32
34	Ion-selective electrodes using carbon nanotubes as ion-to-electron transducers. *Analytical Chemistry*, **2008**, 80, 1316-22	7.8	308
33	Fast detection of Salmonella Infantis with carbon nanotube field effect transistors. *Biosensors and Bioelectronics*, **2008**, 24, 279-83	11.8	147
32	Detection of Human Immunoglobulin G at Physiological Conditions with Chemically Functionalized Carbon Nanotube Field Effect Transistors. *Current Nanoscience*, **2008**, 4, 314-317	1.4	8
31	Kinetic analysis of reactions of Si-based epoxy resins by near-infrared spectroscopy, 13C NMR and soft-hard modelling. *Analytica Chimica Acta*, **2007**, 583, 392-401	6.6	11
30	Gas sensors based on nanostructured materials. *Analyst, The*, **2007**, 132, 1083-99	5	300
29	Nanosensors in environmental analysis. *Talanta*, **2006**, 69, 288-301	6.2	229
28	Quantification from highly drifted and overlapped chromatographic peaks using second-order calibration methods. *Journal of Chromatography A*, **2004**, 1035, 195-202	4.5	55

27	Graphical criterion for assessing trilinearity and selecting the optimal number of factors in the generalized rank annihilation method using liquid chromatography–diode array detection data. *Analytica Chimica Acta*, **2004**, 515, 23-30	6.6	10
26	Limits of detection in linear regression with errors in the concentration. *Journal of Chemometrics*, **2003**, 17, 413-421	1.6	15
25	Using second-order calibration to identify and quantify aromatic sulfonates in water by high-performance liquid chromatography in the presence of coeluting interferences. *Journal of Chromatography A*, **2003**, 988, 277-84	4.5	25
24	Influence of selectivity and sensitivity parameters on detection limits in multivariate curve resolution of chromatographic second-order data. *Analytica Chimica Acta*, **2003**, 476, 111-122	6.6	13
23	Effect of non-significant proportional bias in the final measurement uncertainty. *Analyst, The*, **2003**, 128, 373-8	5	21
22	Evaluating bias in method comparison studies using linear regression with errors in both axes. *Journal of Chemometrics*, **2002**, 16, 41-53	1.6	13
21	Application of the multivariate least squares regression method to PCR and maximum likelihood PCR techniques. *Journal of Chemometrics*, **2002**, 16, 189-197	1.6	6
20	Should non-significant bias be included in the uncertainty budget?. *Accreditation and Quality Assurance*, **2002**, 7, 90-94	0.7	13
19	Should non-significant bias be included in the uncertainty budget? **2002**, 34-38		
18	Improved calculation of the net analyte signal in inverse multivariate calibration. *Journal of Chemometrics*, **2001**, 15, 537-553	1.6	50
17	Prediction intervals in linear regression taking into account errors on both axes. *Journal of Chemometrics*, **2001**, 15, 773-788	1.6	31
16	Estimation of measurement uncertainty by using regression techniques and spiked samples. *Analytica Chimica Acta*, **2001**, 446, 131-143	6.6	29
15	Graphical criterion for the detection of outliers in linear regression taking into account errors in both axes. *Analytica Chimica Acta*, **2001**, 446, 49-58	6.6	11
14	Multiple analytical method comparison using maximum livelihood principal component analysis and linear regression with errors in both axes. *Analytica Chimica Acta*, **2001**, 446, 145-156	6.6	2
13	Measurement uncertainty in analytical methods in which trueness is assessed from recovery assays. *Analytica Chimica Acta*, **2001**, 440, 171-184	6.6	42
12	LINEAR REGRESSION TAKING INTO ACCOUNT ERRORS IN BOTH AXES IN THE PRESENCE OF OUTLIERS. *Analytical Letters*, **2001**, 34, 2547-2561	2.2	2
11	Robust linear regression taking into account errors in the predictor and response variables. *Analyst, The*, **2001**, 126, 1113-7	5	4
10	Validation of bias in multianalyte determination methods.: Application to RP-HPLC derivatizing methodologies. *Analytica Chimica Acta*, **2000**, 406, 257-278	6.6	28

9	Multivariate standardization for correcting the ionic strength variation on potentiometric sensor arrays. *Analyst, The*, **2000**, 125, 883-888	5	28
8	Evaluating uncertainty in routine analysis. *TrAC - Trends in Analytical Chemistry*, **1999**, 18, 577-584	14.6	50
7	Estimating uncertainties of analytical results using information from the validation process. *Analytica Chimica Acta*, **1999**, 391, 173-185	6.6	81
6	Multivariate determination of several compositional parameters related to the content of hydrocarbon in naphtha by MIR spectroscopy. *Analyst, The*, **1999**, 124, 1827-1831	5	14
5	Detection and correction of biased results of individual analytes in multicomponent spectroscopic analysis. *Analytical Chemistry*, **1998**, 70, 1999-2007	7.8	18
4	Method comparison using regression with uncertainties in both axes. *TrAC - Trends in Analytical Chemistry*, **1997**, 16, 211-216	14.6	41
3	Assessing the accuracy of analytical methods using linear regression with errors in both axes. *Analytical Chemistry*, **1996**, 68, 1851-7	7.8	94
2	Selection of the best calibration sample subset for multivariate regression. *Analytical Chemistry*, **1996**, 68, 1565-71	7.8	33
1	Univariate regression models with errors in both axes. *Journal of Chemometrics*, **1995**, 9, 343-362	1.6	43