Claudia Fontas

List of Publications by Citations

70 papers	1,755 citations	24 h-index	40 g-index
71 ext. papers	1,941 ext. citations	6.4 avg, IF	4.71 L-index

#	Paper	IF	Citations
70	Sorption of palladium(II), rhodium(III), and platinum(IV) on Fe(3)O(4) nanoparticles. *Journal of Colloid and Interface Science*, **2006**, 301, 402-8	9.3	128
69	The ability of biologically based wastewater treatment systems to remove emerging organic contaminants--a review. *Environmental Science and Pollution Research*, **2014**, 21, 11708-28	5.1	126
68	Polymer inclusion membranes: The concept of fixed sites membrane revised. *Journal of Membrane Science*, **2007**, 290, 62-72	9.6	115
67	Sensitive and stable monitoring of lead and cadmium in seawater using screen-printed electrode and electrochemical stripping analysis. *Analytica Chimica Acta*, **2008**, 627, 219-24	6.6	84
66	Selective transport and removal of Cd from chloride solutions by polymer inclusion membranes. *Journal of Membrane Science*, **2008**, 318, 340-345	9.6	70
65	Efficient hollow fiber supported liquid membrane system for the removal and preconcentration of Cr(VI) at trace levels. *Separation and Purification Technology*, **2008**, 62, 389-393	8.3	66
64	Efficient thiacalix[4]arenes for the extraction and separation of Au(III), Pd(II) and Pt(IV) metal ions from acidic media incorporated in membranes and solid phases. *Separation and Purification Technology*, **2007**, 54, 322-328	8.3	63
63	Selective recovery and preconcentration of mercury with a benzoylthiourea-solid supported liquid membrane system. *Analytica Chimica Acta*, **2005**, 547, 255-261	6.6	59
62	Development of a polymer inclusion membrane (PIM) for the preconcentration of antibiotics in environmental water samples. *Journal of Membrane Science*, **2015**, 492, 32-39	9.6	55
61	Selective thiacalix[4]arene bearing three amide groups as ionophore of binary Pd(II) and Au(III) extraction by a supported liquid membrane system. *Separation and Purification Technology*, **2007**, 57, 374-379	8.3	52
60	Selective enrichment of palladium from spent automotive catalysts by using a liquid membrane system. *Journal of Membrane Science*, **2003**, 223, 39-48	9.6	52
59	Development and characterization of polymer inclusion membranes for the separation and speciation of inorganic As species. *Journal of Membrane Science*, **2011**, 383, 88-95	9.6	47
58	Cd(II) transport across supported liquid membranes (SLM) and polymeric plasticized membranes (PPM) mediated by Lasalocid A. *Separation and Purification Technology*, **2005**, 42, 189-193	8.3	45
57	The influence of light exposure, water quality and vegetation on the removal of sulfonamides and tetracyclines: a laboratory-scale study. *Chemosphere*, **2013**, 90, 2297-302	8.4	42
56	Novel and selective procedure for Cr(VI) determination by X-ray fluorescence analysis after membrane concentration. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2006**, 61, 407-413	3.1	41
55	The use of a polymer inclusion membrane for separation and preconcentration of orthophosphate in flow analysis. *Analytica Chimica Acta*, **2013**, 803, 82-90	6.6	38
54	Separation and Concentration of Pd, Pt, and Rh from Automotive Catalytic Converters by Combining Two Hollow-Fiber Liquid Membrane Systems. *Industrial & Engineering Chemistry Research*, **2002**, 41, 1616-1620	3.9	34

53	Modelling of liquid–liquid extraction and liquid membrane separation of arsenic species in environmental matrices. *Separation and Purification Technology*, **2010**, 72, 319-325	8.3	32
52	A hollow fiber supported liquid membrane based on Aliquat 336 as a carrier for rhodium(III) transport and preconcentration. *Journal of Membrane Science*, **2000**, 178, 131-139	9.6	32
51	High-energy polarized-beam energy-dispersive X-ray fluorescence analysis combined with activated thin layers for cadmium determination at trace levels in complex environmental liquid samples. *Analytical Chemistry*, **2008**, 80, 2357-64	7.8	28
50	Comparative study of hybrid and activated composite membranes containing Aliquat 336 for the transport of Pt(IV). *Journal of Membrane Science*, **2008**, 311, 235-242	9.6	28
49	A new extraction phase based on a polymer inclusion membrane for the detection of chlorpyrifos, diazinon and cyprodinil in natural water samples. *Talanta*, **2018**, 185, 291-298	6.2	27
48	Adsorption Behavior of Platinum Group Metals (Pd, Pt, Rh) on Nonylthiourea-Coated Fe3O4 Nanoparticles. *Separation Science and Technology*, **2006**, 41, 909-923	2.5	27
47	Development of a polymer inclusion membrane-based passive sampler for monitoring of sulfamethoxazole in natural waters. Minimizing the effect of the flow pattern of the aquatic system. *Microchemical Journal*, **2016**, 124, 175-180	4.8	26
46	Development of a selective optical sensor for Cr(VI) monitoring in polluted waters. *Analytica Chimica Acta*, **2007**, 594, 162-8	6.6	23
45	Transport and separation of arsenate and arsenite from aqueous media by supported liquid and anion-exchange membranes. *Separation and Purification Technology*, **2011**, 80, 428-434	8.3	22
44	System for mercury preconcentration in natural waters based on a polymer inclusion membrane incorporating an ionic liquid. *Journal of Hazardous Materials*, **2019**, 371, 316-322	12.8	21
43	Determination of water-soluble hexavalent chromium in clinker samples by wavelength-dispersive X-ray fluorescence spectrometry after concentration in activated layers. *Applied Spectroscopy*, **2010** , 64, 547-51	3.1	20
42	Improvement approaches for the determination of Cr(VI), Cd(II), Pd(II) and Pt(IV) contained in aqueous samples by conventional XRF instrumentation. *X-Ray Spectrometry*, **2009**, 38, 9-17	0.9	20
41	Adsorption and Preconcentration of Pd(II), Pt(IV), and Rh(III) using Anion-Exchange Solid-Phase Extraction Cartridges (SPE)View all notes. *Solvent Extraction and Ion Exchange*, **2009**, 27, 83-96	2.5	20
40	Polymer Inclusion Membrane as an Effective Sorbent To Facilitate Mercury Storage and Detection by X-ray Fluorescence in Natural Waters. *Analytical Chemistry*, **2018**, 90, 4756-4763	7.8	19
39	Polymer inclusion membrane to access Zn speciation: Comparison with root uptake. *Science of the Total Environment*, **2018**, 622-623, 316-324	10.2	18
38	Thiacalix[4]arene derivatives as extractants for metal ions in aqueous solutions: Application to the selective facilitated transport of Ag(I). *Materials Science and Engineering C*, **2008**, 28, 985-989	8.3	18
37	Study of the Sorption and Separation Abilities of Commercial Solid-Phase Extraction (SPE) Cartridge Oasis MAX Towards Au(III), Pd(II), Pt(IV), and Rh(III). *Solvent Extraction and Ion Exchange*, **2006**, 24, 931-942	2.5	18
36	A novel low-cost detection method for screening of arsenic in groundwater. *Environmental Science and Pollution Research*, **2014**, 21, 11682-8	5.1	17

35	New applications of azamacrocyclic ligands in ion recognition, transport and preconcentration of palladium. *Analytica Chimica Acta*, **2006**, 560, 77-83	6.6	17
34	Exploring new DGT samplers containing a polymer inclusion membrane for mercury monitoring. *Environmental Science and Pollution Research*, **2017**, 24, 10919-10928	5.1	15
33	Selective Pd(II) and Pt(IV) sorption using novel polymers containing azamacrocycle functional groups. *Reactive and Functional Polymers*, **2008**, 68, 1088-1096	4.6	15
32	Evaluation of mercury in a freshwater environment impacted by an organomercury fungicide using diffusive gradient in thin films. *Science of the Total Environment*, **2018**, 621, 1475-1484	10.2	14
31	Determination of pharmaceutical compounds in sewage sludge using a standard addition method approach. *International Journal of Environmental Analytical Chemistry*, **2014**, 94, 1199-1209	1.8	13
30	Application of high-energy polarised beam energy dispersive X-ray fluorescence spectrometry to cadmium determination in saline solutions. *Journal of Analytical Atomic Spectrometry*, **2008**, 23, 1034	3.7	13
29	Automatic determination of arsenate in drinking water by flow analysis with dual membrane-based separation. *Food Chemistry*, **2019**, 283, 232-238	8.5	11
28	Conventional and novel techniques for the determination of Hg uptake by lettuce in amended agricultural peri-urban soils. *Science of the Total Environment*, **2019**, 668, 40-46	10.2	11
27	Improved instrumental sensitivity for Cd determination in aqueous solutions using Wavelength Dispersive X-ray Fluorescence Spectrometry, Rh-target tube instrumentation. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2008**, 63, 1329-1332	3.1	10
26	An Efficient Polymer Inclusion Membrane-Based Device for Cd Monitoring in Seawater. *Membranes*, **2018**, 8,	3.8	10
25	Diffusive gradient in thin films with open and restricted gels for predicting mercury uptake by plants. *Environmental Chemistry Letters*, **2019**, 17, 1353-1358	13.3	9
24	Separation and preconcentration of Cd(II) from chloride solutions using supported liquid membranes systems. *Desalination*, **2006**, 200, 114-116	10.3	8
23	The Use of a Polymer Inclusion Membrane for Arsenate Determination in Groundwater. *Water (Switzerland)*, **2018**, 10, 1093	3	7
22	Comparison of different speciation techniques to measure Zn availability in hydroponic media. *Analytica Chimica Acta*, **2018**, 1035, 32-43	6.6	7
21	Electrochemical Characterization of a Polymer Inclusion Membrane Made of Cellulose Triacetate and Aliquat 336 and Its Application to Sulfonamides Separation. *Separations*, **2018**, 5, 5	3.1	6
20	Thiacalix[4]arenes as selective carriers for the transport and separation of gold, palladium and platinum by using supported liquid membrane systems. *Desalination*, **2006**, 200, 112-113	10.3	6
19	BENZYL(2-METHOXY-3-DIPHENYLPHOSPHINO)PROPYL ETHER AS A CARRIER FOR THE SELECTIVE TRANSPORT OF Pd(II) THROUGH A SOLID SUPPORTED LIQUID MEMBRANE. *Solvent Extraction and Ion Exchange*, **2001**, 19, 329-344	2.5	6
18	Applicability of a Supported Liquid Membrane in the Enrichment and Determination of Cadmium from Complex Aqueous Samples. *Membranes*, **2018**, 8,	3.8	5

17	Thiacalixarene Derivatives Incorporated in Optical-Sensing Membranes for Metal Ion Recognition. *Analytical Letters*, **2011**, 44, 1241-1253	2.2	5
16	Development of a new binding phase for the diffusive gradients in thin films technique based on an ionic liquid for mercury determination. *Chemosphere*, **2020**, 245, 125671	8.4	5
15	First Report on a Solvent-Free Preparation of Polymer Inclusion Membranes with an Ionic Liquid. *Molecules*, **2019**, 24,	4.8	4
14	Survey of Heavy Metal Contamination in Water Sources in the Municipality of Torola, El Salvador, through In Situ Sorbent Extraction. *Water (Switzerland)*, **2017**, 9, 877	3	4
13	Formation potential of N-nitrosamines during the disinfection of treated wastewaters with sodium hypochlorite. *Desalination and Water Treatment*, **2014**, 52, 3019-3026		4
12	Screen-printed electrodes incorporated in a flow system for the decentralized monitoring of lead, cadmium and copper in natural and wastewater samples. *International Journal of Environmental Analytical Chemistry*, **2013**, 93, 872-883	1.8	3
11	Design of a Hollow Fiber Supported Liquid Membrane System for Zn Speciation in Natural Waters. *Membranes*, **2018**, 8,	3.8	3
10	In situ growth and crystallization of TiO2 on polymeric membranes for the photocatalytic degradation of diclofenac and 17□ethinylestradiol. *Chemical Engineering Journal*, **2022**, 427, 131476	14.7	3
9	Effective concentration signature of Zn in a natural water derived from various speciation techniques. *Science of the Total Environment*, **2022**, 806, 151201	10.2	2
8	A Polymer Inclusion Membrane for Sensing Metal Complexation in Natural Waters. *Applied Sciences (Switzerland)*, **2021**, 11, 10404	2.6	1
7	Fluoride removal from natural waters by polymer inclusion membranes. *Journal of Membrane Science*, **2022**, 644, 120161	9.6	1
6	Evaluation and optimization of the derivatization reaction conditions of glyphosate and aminomethylphosphonic acid with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate using reversed-phase liquid chromatography. *Journal of Separation Science*, **2020**, 43, 3931-3939	3.4	1
5	Effect of different amendments on trace metal bioavailability in agricultural soils and metal uptake on lettuce evaluated by Diffusive Gradients in Thin Films. *Environmental Technology and Innovation*, **2021**, 21, 101319	7	1
4	Preparation and Characterization of Nanoparticle-Doped Polymer Inclusion Membranes. Application to the Removal of Arsenate and Phosphate from Waters. *Materials*, **2021**, 14,	3.5	1
3	Polymer inclusion membranes with ionic liquids for the recovery of the technology-critical element Bi(III). *Chemical Engineering and Processing: Process Intensification*, **2022**, 175, 108911	3.7	1
2	Determination of elemental bioavailability in soils and sediments by microwave induced plasma optical emission spectrometry (MIP-OES): Matrix effects and calibration strategies.. *Talanta*, **2021**, 240, 123166	6.2	0
1	Preparation of new polymeric phases for thin-film liquid phase microextraction (TF-LPME) of selected organic pollutants. *Microchemical Journal*, **2022**, 175, 107120	4.8	0