Spas D Kolev

List of Publications by Citations

213 papers	5,577 citations	36 h-index	61 g-index
223 ext. papers	6,307 ext. citations	6.5 avg, IF	6.09 L-index

#	Paper	IF	Citations
213	Extraction and transport of metal ions and small organic compounds using polymer inclusion membranes (PIMs). *Journal of Membrane Science*, **2006**, 281, 7-41	9.6	395
212	Metal ion ligands in hyperaccumulating plants. *Journal of Biological Inorganic Chemistry*, **2006**, 11, 2-12	3.7	248
211	Recent trends in extraction and transport of metal ions using polymer inclusion membranes (PIMs). *Journal of Membrane Science*, **2012**, 415-416, 9-23	9.6	204
210	The molybdenum blue reaction for the determination of orthophosphate revisited: Opening the black box. *Analytica Chimica Acta*, **2015**, 890, 60-82	6.6	172
209	Developments of microfluidic paper-based analytical devices (ꝐADs) for water analysis: A review. *Talanta*, **2018**, 177, 176-190	6.2	145
208	Microfluidic paper-based analytical device for the determination of nitrite and nitrate. *Analytical Chemistry*, **2014**, 86, 7274-9	7.8	137
207	The extraction of cadmium(II) and copper(II) from hydrochloric acid solutions using an Aliquat 336/PVC membrane. *Journal of Membrane Science*, **2000**, 176, 105-111	9.6	94
206	Polymer inclusion membranes (PIMs) in chemical analysis - A review. *Analytica Chimica Acta*, **2017**, 987, 1-14	6.6	90
205	Extraction of uranium(VI) from sulfate solutions using a polymer inclusion membrane containing di-(2-ethylhexyl) phosphoric acid. *Journal of Membrane Science*, **2010**, 364, 354-361	9.6	88
204	Theoretical analysis of the pseudo-second order kinetic model of adsorption. Application to the adsorption of Ag(I) to mesoporous silica microspheres functionalized with thiol groups. *Chemical Engineering Journal*, **2013**, 218, 350-357	14.7	77
203	The study of a membrane for extracting gold(III) from hydrochloric acid solutions. *Journal of Membrane Science*, **1998**, 138, 279-285	9.6	76
202	Applications of everyday IT and communications devices in modern analytical chemistry: A review. *Talanta*, **2015**, 136, 84-94	6.2	74
201	Relationships of nicotianamine and other amino acids with nickel, zinc and iron in Thlaspi hyperaccumulators. *New Phytologist*, **2007**, 176, 836-848	9.8	73
200	Development of a gas-diffusion microfluidic paper-based analytical device (ꝐAD) for the determination of ammonia in wastewater samples. *Analytical Chemistry*, **2015**, 87, 4621-6	7.8	71
199	Solid phase extraction of zinc(II) using a PVC-based polymer inclusion membrane with di(2-ethylhexyl)phosphoric acid (D2EHPA) as the carrier. *Talanta*, **2009**, 78, 795-9	6.2	68
198	Colorimetric detection based on localised surface plasmon resonance of gold nanoparticles: Merits, inherent shortcomings and future prospects. *Talanta*, **2016**, 152, 410-22	6.2	66
197	Chemical characterisation and speciation of organic selenium in cultivated selenium-enriched Agaricus bisporus. *Food Chemistry*, **2013**, 141, 3681-7	8.5	66

196	Influence of the composition of polymer inclusion membranes on their homogeneity and flexibility. *Desalination*, **2009**, 236, 327-333	10.3	66
195	A paper-based device for measurement of reactive phosphate in water. *Talanta*, **2012**, 100, 454-60	6.2	58
194	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
193	Analytical challenges and advantages of using flow-based methodologies for ammonia determination in estuarine and marine waters. *TrAC - Trends in Analytical Chemistry*, **2014**, 59, 83-92	14.6	54
192	The use of a polymer inclusion membrane in a paper-based sensor for the selective determination of Cu(II). *Analytica Chimica Acta*, **2013**, 803, 106-12	6.6	54
191	Transport and separation of uranium(VI) by a polymer inclusion membrane based on di-(2-ethylhexyl) phosphoric acid. *Journal of Membrane Science*, **2012**, 409-410, 242-250	9.6	48
190	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
189	Transport of ferrocyanide by two eucalypt species and sorghum. *International Journal of Phytoremediation*, **2008**, 10, 343-57	3.9	46
188	Recovery of gold from aqua regia digested electronic scrap using a poly(vinylidene fluoride-co-hexafluoropropene) (PVDF-HFP) based polymer inclusion membrane (PIM) containing Cyphos® IL 104. *Journal of Membrane Science*, **2016**, 514, 274-281	9.6	44
187	Mathematical modelling of membrane extraction of gold(III) from hydrochloric acid solutions. *Journal of Membrane Science*, **1997**, 137, 261-269	9.6	43
186	Separation of lanthanum(III), gadolinium(III) and ytterbium(III) from sulfuric acid solutions by using a polymer inclusion membrane. *Journal of Membrane Science*, **2018**, 545, 259-265	9.6	42
185	LC-MS and GC-MS metabolite profiling of nickel(II) complexes in the latex of the nickel-hyperaccumulating tree Sebertia acuminata and identification of methylated aldaric acid as a new nickel(II) ligand. *Phytochemistry*, **2008**, 69, 240-51	4	41
184	Separation of cobalt(II) from nickel(II) by solid-phase extraction into Aliquat 336 chloride immobilized in poly(vinyl chloride). *Talanta*, **2007**, 71, 419-23	6.2	40
183	Theoretical and experimental study of palladium(II) extraction from hydrochloric acid solutions into Aliquat 336/PVC membranes. *Analytica Chimica Acta*, **2000**, 413, 241-246	6.6	40
182	Recovery of gold ions from discarded mobile phone leachate by solvent extraction and polymer inclusion membrane (PIM) based separation using an amic acid extractant. *Separation and Purification Technology*, **2019**, 214, 156-161	8.3	40
181	Selective extraction of vanadium(V) from sulfate solutions into a polymer inclusion membrane composed of poly(vinylidenefluoride-co-hexafluoropropylene) and Cyphos® IL 101. *Journal of Membrane Science*, **2018**, 545, 57-65	9.6	38
180	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
179	Elemental and metabolite profiling of nickel hyperaccumulators from New Caledonia. *Phytochemistry*, **2012**, 81, 80-9	4	37

178	A polymer inclusion membrane for extracting thiocyanate from weakly alkaline solutions. *Journal of Membrane Science*, **2011**, 367, 85-90	9.6	37
177	Phytotoxicity of biosolids and screening of selected plant species with potential for mercury phytoextraction. *Journal of Hazardous Materials*, **2010**, 173, 494-501	12.8	36
176	Adsorption of mercury(II) from hydrochloric acid solutions on glycidylmethacrylate–divinylbenzene microspheres containing amino groups. *Reactive and Functional Polymers*, **2006**, 66, 1158-1164	4.6	36
175	Stability studies of poly(vinyl chloride)-based polymer inclusion membranes containing Aliquat 336 as a carrier. *Separation and Purification Technology*, **2012**, 101, 69-75	8.3	35
174	Gold, an alternative to platinum group metals in automobile catalytic converters. *Gold Bulletin*, **2011**, 44, 145-153	1.6	35
173	Candida virulence and ethanol-derived acetaldehyde production in oral cancer and non-cancer subjects. *Oral Diseases*, **2016**, 22, 805-814	3.5	34
172	Mathematical modeling of single-line flow-injection analysis systems without chemical reaction. *Analytical Chemistry*, **1988**, 60, 1700-1709	7.8	34
171	A new generation of highly stable and permeable polymer inclusion membranes (PIMs) with their carrier immobilized in a crosslinked semi-interpenetrating polymer network. Application to the transport of thiocyanate. *Journal of Membrane Science*, **2017**, 529, 55-62	9.6	33
170	Development of a passive sampler for Zinc(II) in urban pond waters using a polymer inclusion membrane. *Environmental Pollution*, **2014**, 193, 233-239	9.3	33
169	Antioxidative response of Atriplex codonocarpa to mercury. *Environmental and Experimental Botany*, **2010**, 69, 9-16	5.9	33
168	Comparative study of hotplate wet digestion methods for the determination of mercury in biosolids. *Chemosphere*, **2008**, 72, 1420-1424	8.4	33
167	Development of a passive sampler based on a polymer inclusion membrane for total ammonia monitoring in freshwaters. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 3213-22	4.4	33
166	Pervaporation-flow injection determination of ammonia in the presence of surfactants. *Analytica Chimica Acta*, **2000**, 416, 177-184	6.6	32
165	On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation. *Analytica Chimica Acta*, **1999**, 390, 133-139	6.6	32
164	The use of sonication to increase extraction rate in polymer inclusion membranes. An application to the extraction of gold(III). *Journal of Membrane Science*, **2010**, 365, 242-247	9.6	31
163	Mathematical modelling of flow-injection systems. *Analytica Chimica Acta*, **1995**, 308, 36-66	6.6	31
162	The use of poly(vinylidenefluoride-co-hexafluoropropylene) for the preparation of polymer inclusion membranes. Application to the extraction of thiocyanate. *Journal of Membrane Science*, **2016**, 510, 481-488	9.6	31
161	Selective transport of scandium(III) across polymer inclusion membranes with improved stability which contain an amic acid carrier. *Journal of Membrane Science*, **2019**, 572, 291-299	9.6	31

160	A highly versatile stable optical sensor based on 4-decyloxy-2-(2-pyridylazo)-1-naphthol in Nafion for the determination of copper. *Sensors and Actuators B: Chemical*, **2002**, 85, 33-41	8.5	30
159	A poly(vinylidene fluoride-co-hexafluoropropylene) (PVDF-HFP)-based polymer inclusion membrane (PIM) containing LIX84I for the extraction and transport of Cu(II) from its ammonium sulfate/ammonia solutions. *Journal of Membrane Science*, **2017**, 542, 272-279	9.6	29
158	Pervaporation-flow injection determination of arsenic based on hydride generation and the molybdenum blue reaction. *Analytica Chimica Acta*, **2001**, 445, 229-238	6.6	29
157	A novel approach to Lab-In-Syringe Head-Space Single-Drop Microextraction and on-drop sensing of ammonia. *Analytica Chimica Acta*, **2016**, 934, 132-44	6.6	29
156	Separation of cobalt(II) from manganese(II) using a polymer inclusion membrane with N-[N,N-di(2-ethylhexyl)aminocarbonylmethyl]glycine (D2EHAG) as the extractant/carrier. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 1320-1326	3.5	28
155	The use of a polymer inclusion membrane as a sorbent for online preconcentration in the flow injection determination of thiocyanate impurity in ammonium sulfate fertilizer. *Talanta*, **2014**, 129, 560-4	6.2	28
154	Mathematical modeling of the extraction of uranium(VI) into a polymer inclusion membrane composed of PVC and di-(2-ethylhexyl) phosphoric acid. *Journal of Membrane Science*, **2013**, 425-426, 169-175	9.6	28
153	Sensitive and ultra-fast determination of arsenic(III) by gas-diffusion flow injection analysis with chemiluminescence detection. *Analytica Chimica Acta*, **2007**, 583, 72-7	6.6	28
152	Determination of phenol in water by pervaporation flow injection analysis. *Analytica Chimica Acta*, **2000**, 419, 9-16	6.6	28
151	Development of a microfluidic paper-based analytical device for the determination of salivary aldehydes. *Analytica Chimica Acta*, **2016**, 919, 47-54	6.6	27
150	An optical redox chemical sensor based on ferroin immobilised in a Nafion membrane. *Analytica Chimica Acta*, **1999**, 401, 137-144	6.6	27
149	Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry. *Analytica Chimica Acta*, **1996**, 330, 79-87	6.6	27
148	Donnan dialysis based separation of gold(III) from electronic waste solutions using an anion exchange pore-filled membrane. *Journal of Membrane Science*, **2016**, 514, 210-216	9.6	27
147	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
146	Evaluation and application of a paper-based device for the determination of reactive phosphate in soil solution. *Journal of Environmental Quality*, **2014**, 43, 1081-5	3.4	26
145	Influence of the main parameters of single-line flow-injection systems without chemical reaction on the output signal. *Analytica Chimica Acta*, **1988**, 208, 117-132	6.6	25
144	Extraction of Gold(III) from Hydrochloric Acid Solutions with a PVC-based Polymer Inclusion Membrane (PIM) Containing Cyphos( ) IL 104. *Membranes*, **2015**, 5, 903-14	3.8	24
143	The effect of the counter anion on the transport of thiourea in a PVC-based polymer inclusion membrane using Capriquat as carrier. *Journal of Membrane Science*, **2010**, 346, 250-255	9.6	24

142	A screen of some native Australian flora and exotic agricultural species for their potential application in cyanide-induced phytoextraction of gold. *Minerals Engineering*, **2007**, 20, 1327-1330	4.9	24
141	Thin layer distillation for matrix isolation in flow analysis. *Talanta*, **2007**, 72, 741-6	6.2	24
140	A microfabricated electroosmotic pump coupled to a gas-diffusion microchip for flow injection analysis of ammonia. *Mikrochimica Acta*, **2015**, 182, 1063-1070	5.8	23
139	The use of a polymer inclusion membrane in flow injection analysis for the on-line separation and determination of zinc. *Talanta*, **2011**, 84, 1278-83	6.2	23
138	Determination of carbon dioxide in gaseous samples by gas diffusion-flow injection. *Talanta*, **2004**, 62, 631-6	6.2	23
137	Effect of cross-linking on the performance of polymer inclusion membranes (PIMs) for the extraction, transport and separation of Zn(II). *Journal of Membrane Science*, **2019**, 589, 117256	9.6	22
136	Chelate-assisted phytoextraction of mercury in biosolids. *Science of the Total Environment*, **2011**, 409, 2685-92	10.2	22
135	Determination of arsenic by pervaporation-flow injection hydride generation and permanganate spectrophotometric detection. *Analytica Chimica Acta*, **2004**, 510, 225-230	6.6	22
134	A sensitive procedure for the rapid determination of arsenic(III) by flow injection analysis and chemiluminescence detection. *Analytica Chimica Acta*, **2005**, 554, 25-30	6.6	22
133	Influence of the main parameters of single-line flow-injection systems without chemical reaction on the output signal. *Analytica Chimica Acta*, **1988**, 208, 133-149	6.6	22
132	On-line extractive separation in flow injection analysis based on polymer inclusion membranes: a study on membrane stability and approaches for improving membrane permeability. *Talanta*, **2012**, 97, 382-7	6.2	21
131	The preparation of a gold nanoparticle monolayer on the surface of a polymer inclusion membrane using EDTA as the reducing agent. *Journal of Membrane Science*, **2011**, 379, 322-329	9.6	21
130	Analysis of transient laminar mass transfer in a parallel-plate dialyser. *Analytica Chimica Acta*, **1992**, 257, 331-342	6.6	21
129	Development of a micro-distillation microfluidic paper-based analytical device as a screening tool for total ammonia monitoring in freshwaters. *Analytica Chimica Acta*, **2019**, 1079, 120-128	6.6	20
128	Growth of selected plant species in biosolids-amended mine tailings. *Minerals Engineering*, **2015**, 80, 25-32	4.9	20
127	Novel molecularly imprinted polymeric microspheres for preconcentration and preservation of polycyclic aromatic hydrocarbons from environmental samples. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 5313-21	4.4	20
126	Solid-phase extraction of cobalt(II) from lithium chloride solutions using a poly(vinyl chloride)-based polymer inclusion membrane with Aliquat 336 as the carrier. *Analytical Sciences*, **2011**, 27, 653-7	1.7	20
125	PVDF-HFP based polymer inclusion membranes containing Cyphos® IL 101 and Aliquat® 336 for the removal of Cr(VI) from sulfate solutions. *Separation and Purification Technology*, **2020**, 250, 117251	8.3	19

124	Influence of the main parameters of a parallel-plate dialyser under laminar flow conditions. *Analytica Chimica Acta*, **1992**, 257, 317-329	6.6	19
123	Volatile chemical emissions from fragranced baby products. *Air Quality, Atmosphere and Health*, **2018**, 11, 785-790	5.6	18
122	Volatile chemical emissions from essential oils. *Air Quality, Atmosphere and Health*, **2018**, 11, 949-954	5.6	18
121	Determination of ammonia in beers by pervaporation flow injection analysis and spectrophotometric detection. *Talanta*, **2003**, 60, 1269-75	6.2	18
120	Laminar dispersion in parallel plate sections of flow systems used in analytical chemistry and chemical engineering. *Analytica Chimica Acta*, **1991**, 247, 51-60	6.6	18
119	Mathematical modelling of the chronoamperometric response of an array of rectangular microelectrodes. *Analytica Chimica Acta*, **1993**, 273, 71-80	6.6	18
118	A novel on-line organic mercury digestion method combined with atomic fluorescence spectrometry for automatic mercury speciation. *Talanta*, **2018**, 189, 220-224	6.2	18
117	A novel polymer inclusion membrane based method for continuous clean-up of thiocyanate from gold mine tailings water. *Journal of Hazardous Materials*, **2018**, 341, 297-303	12.8	17
116	A novel low-cost detection method for screening of arsenic in groundwater. *Environmental Science and Pollution Research*, **2014**, 21, 11682-8	5.1	17
115	Determination of the initial flux of polymer inclusion membranes. *Separation and Purification Technology*, **2013**, 116, 41-45	8.3	17
114	Highly sensitive gas-diffusion sequential injection analysis based on flow manipulation. *Talanta*, **2009**, 79, 1021-5	6.2	17
113	Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol–water solutions. *Analytica Chimica Acta*, **1998**, 360, 153-159	6.6	17
112	Numerical solution of hydraulic models based on the axially-dispersed plug flow model by Laplace transforms. *Analytica Chimica Acta*, **1987**, 194, 61-75	6.6	17
111	A gas-diffusion flow injection method coupled with online solid-liquid extraction for the determination of ammonium in solid samples. *Talanta*, **2015**, 142, 140-4	6.2	16
110	Volatile chemical emissions from 134 common consumer products. *Air Quality, Atmosphere and Health*, **2019**, 12, 1259-1265	5.6	16
109	A method for the coating of a polymer inclusion membrane with a monolayer of silver nanoparticles. *Journal of Membrane Science*, **2013**, 428, 142-149	9.6	16
108	Determination of cyanide as tetracyanonickelate(II) by flow injection and spectrophotometric detection. *Analytica Chimica Acta*, **1997**, 357, 103-109	6.6	16
107	Thermal simulation of surface micromachined polysilicon hot plates of low power consumption. *Sensors and Actuators A: Physical*, **1999**, 76, 51-56	3.9	16

106	A polymer inclusion membrane composed of the binary carrier PC-88A and Versatic 10 for the selective separation and recovery of Sc.. *RSC Advances*, **2018**, 8, 8631-8637	3.7	15
105	Flow injection spectrophotometric determination of V(V) involving on-line separation using a poly(vinylidene fluoride-co-hexafluoropropylene)-based polymer inclusion membrane. *Talanta*, **2018**, 181, 385-391	6.2	15
104	Online ligand exchange in the determination of weak acid dissociable cyanide by gas diffusion-flow injection analysis. *Microchemical Journal*, **2013**, 111, 103-107	4.8	15
103	Solubilization of heavy metals from gold ore by adjuvants used during gold phytomining. *Minerals Engineering*, **2010**, 23, 819-822	4.9	15
102	Mathematical modelling of single-line flow-injection analysis systems with single-layer enzyme electrode detection Part 1. Development of the mathematical model. *Analytica Chimica Acta*, **1990**, 241, 43-53	6.6	15
101	The use of on-line UV photoreduction in the flow analysis determination of dissolved reactive phosphate in natural waters. *Talanta*, **2015**, 133, 155-61	6.2	14
100	Polymer inclusion membranes (PIMs) containing purified dinonylnaphthalene sulfonic acid (DNNS): Performance and selectivity. *Separation and Purification Technology*, **2018**, 195, 446-452	8.3	14
99	Determination of salivary cotinine through solid phase extraction using a bead-injection lab-on-valve approach hyphenated to hydrophilic interaction liquid chromatography. *Journal of Chromatography A*, **2016**, 1429, 284-91	4.5	14
98	Determination of trace levels of ammonia in marine waters using a simple environmentally-friendly ammonia (SEA) analyser. *Marine Chemistry*, **2017**, 194, 133-145	3.7	14
97	Vegetation response of Australian native grass species redgrass (Bothriochloa macra (Steudel) S.T. Blake) and spider grass (Enteropogon acicularis (Lindl.) Lazarides) in saline and arsenic contaminated gold mine tailings: A glasshouse study. *Minerals Engineering*, **2014**, 56, 61-69	4.9	14
96	On-line determination of mercury(II) by membrane separation flow injection analysis. *Talanta*, **2004**, 63, 1069-75	6.2	14
95	Green solvents for the fabrication of polymer inclusion membranes (PIMs). *Separation and Purification Technology*, **2020**, 239, 116486	8.3	14
94	Determination of acetaldehyde in saliva by gas-diffusion flow injection analysis. *Analytica Chimica Acta*, **2013**, 786, 70-7	6.6	13
93	On-line speciation analysis of inorganic arsenic in complex environmental aqueous samples by pervaporation sequential injection analysis. *Talanta*, **2013**, 117, 8-13	6.2	13
92	A study of the ammonium ion extraction properties of polymer inclusion membranes containing commercial dinonylnaphthalene sulfonic acid. *Journal of Membrane Science*, **2015**, 478, 155-162	9.6	13
91	Study of the spatial distribution of mercury in roots of vetiver grass (Chrysopogon zizanioides) by micro-pixe spectrometry. *International Journal of Phytoremediation*, **2014**, 16, 1170-82	3.9	13
90	Micrometer-Scale 2D Mapping of the Composition and Homogeneity of Polymer Inclusion Membranes. *Australian Journal of Chemistry*, **2011**, 64, 930	1.2	13
89	Sensitivity enhancement in membrane separation flow injection analysis by ultrasound. *Ultrasonics Sonochemistry*, **2008**, 15, 151-6	8.9	13

88	Flow-injection approach for the determination of the dynamic response characteristics of ion-selective electrodes. Part 1. Theoretical considerations. *Analytica Chimica Acta*, **1990**, 234, 49-56	6.6	13
87	Adsorption of carbon dioxide on naturally occurring solid amino acids. *Journal of Environmental Chemical Engineering*, **2016**, 4, 3170-3176	6.8	13
86	Water monitoring using polymer inclusion membranes: a review. *Environmental Chemistry Letters*, **2020**, 18, 129-150	13.3	13
85	Development of a portable 3D-printed flow-through passive sampling device free of flow pattern effects. *Microchemical Journal*, **2018**, 143, 359-366	4.8	12
84	Fast and Environmentally Friendly Microfluidic Technique for the Fabrication of Polymer Microspheres. *Langmuir*, **2017**, 33, 14691-14698	4	12
83	An optical membrane redox chemical sensor for the determination of ascorbic acid. *Laboratory Robotics and Automation*, **2000**, 12, 200-204		12
82	Flow-injection approach for the determination of the dynamic response characteristics of ion-selective electrodes. Part 2. Application to tubular solid-state iodide electrode. *Analytica Chimica Acta*, **1990**, 234, 57-65	6.6	12
81	Solution of mathematical models of flow systems used in analytical chemistry and process analysis in the case of slug and time injection. *Analytica Chimica Acta*, **1990**, 229, 183-189	6.6	12
80	Description of an axially-dispersed plug flow model for the flow pattern in elements of fluid systems. *Analytica Chimica Acta*, **1986**, 185, 315-319	6.6	12
79	Polymerisation effects in the extraction of Co(II) into polymer inclusion membranes containing Cyanex 272. Structural studies of the Cyanex 272□Co(II) complex. *Journal of Membrane Science*, **2016**, 497, 377-386	9.6	11
78	Phytoextraction potential of Manihot esculenta Crantz. (cassava) grown in mercury- and gold-containing biosolids and mine tailings. *Minerals Engineering*, **2017**, 114, 57-63	4.9	11
77	Automatic determination of arsenate in drinking water by flow analysis with dual membrane-based separation. *Food Chemistry*, **2019**, 283, 232-238	8.5	11
76	Gas-diffusion-based passive sampler for ammonia monitoring in marine waters. *Talanta*, **2018**, 181, 52-56	6.2	11
75	Determination of mercury(II) at trace levels by gas-diffusion flow injection analysis with amperometric detection. *Analytica Chimica Acta*, **2005**, 539, 203-207	6.6	11
74	Dissociation of Ferroin in acidic solutions and Nafion□ membranes. *Analytica Chimica Acta*, **1999**, 395, 27-32	6.6	11
73	Limits of mass transfer in parallel-plate dialysers. *Analytica Chimica Acta*, **1992**, 256, 301-305	6.6	11
72	End effects in flow-analysis and process systems. *Talanta*, **1987**, 34, 1009-14	6.2	11
71	A comparison of the use of commercial and diluent free LIX84I in poly(vinylidene fluoride-co-hexafluoropropylene) (PVDF-HFP)-based polymer inclusion membranes for the extraction and transport of Cu(II). *Separation and Purification Technology*, **2018**, 202, 59-66	8.3	10

70	Determination of arsenic in industrial samples by pervaporation flow injection with amperometric detection. *Analytica Chimica Acta*, **2009**, 652, 266-71	6.6	10
69	Theoretical Basis of Flow Injection Analysis. *Comprehensive Analytical Chemistry*, **2008**, 47-79	1.9	10
68	Transport of Thiourea through an Aliquat 336/Polyvinyl Chloride Membrane. *Separation Science and Technology*, **2000**, 35, 1979-1990	2.5	10
67	Determination of Henryâ law constants of phenols by pervaporation-flow injection analysis. *Environmental Science & Technology*, **2001**, 35, 178-81	10.3	10
66	Determination of the diffusion coefficient of 1-(2?-pyridylazo)-2-naphthol in ethanolâwater solutions using flow injection and nuclear magnetic resonance techniques. *Analytica Chimica Acta*, **1999**, 386, 137-144	6.6	10
65	Mathematical modelling of a flow-injection system with a membrane separation module. *Analytica Chimica Acta*, **1992**, 268, 7-27	6.6	10
64	Succulent species differ substantially in their tolerance and phytoextraction potential when grown in the presence of Cd, Cr, Cu, Mn, Ni, Pb, and Zn. *Environmental Science and Pollution Research*, **2015**, 22, 18824-38	5.1	9
63	Improvement of Chromium(VI) Extraction from Acidic Solutions Using a Poly(vinyl chloride)-based Polymer Inclusion Membrane with Aliquat 336 as the Carrier. *Analytical Sciences*, **2017**, 33, 643-646	1.7	9
62	Hybrid flow system for automatic dynamic fractionation and speciation of inorganic arsenic in environmental solids. *Environmental Science & Technology*, **2015**, 49, 2733-40	10.3	9
61	Gas-diffusion flow injection determination of Hg(II) with chemiluminescence detection. *Analytica Chimica Acta*, **2007**, 582, 103-8	6.6	9
60	Application of Laplace transforms for the solution of transient mass- and heat-transfer problems in flow systems. *International Journal of Heat and Mass Transfer*, **1993**, 36, 135-139	4.9	9
59	Separation and Recovery of Scandium from Sulfate Media by Solvent Extraction and Polymer Inclusion Membranes with Amic Acid Extractants. *ACS Omega*, **2019**, 4, 21122-21130	3.9	9
58	Pandemic products and volatile chemical emissions. *Air Quality, Atmosphere and Health*, **2020**, 14, 1-7	5.6	9
57	An automatic flow assembly for on-line dynamic fractionation of trace level concentrations of mercury in environmental solids with high organic load. *Analytica Chimica Acta*, **2017**, 975, 1-10	6.6	8
56	The potential of polystyrene-block-polybutadiene-block-polystyrene triblock co-polymer as a base-polymer of polymer inclusion membranes (PIMs). *Separation and Purification Technology*, **2019**, 229, 115800	8.3	8
55	A method for coating a polymer inclusion membrane with palladium nanoparticles. *Reactive and Functional Polymers*, **2015**, 97, 30-36	4.6	8
54	Assessment of the pollution potential of mercury contaminated biosolids. *Environmental Chemistry*, **2010**, 7, 146	3.2	8
53	Mathematical modelling of 1,10-phenanthroline extraction into nafion® 117 membranes. *Journal of Membrane Science*, **1998**, 141, 155-164	9.6	8

52	Nanostructural characterisation of polymer inclusion membranes using X-ray scattering. *Journal of Membrane Science*, **2019**, 588, 117208	9.6	7
51	Use of an ether-derived 3-hydroxy-4-pyridinone chelator as a new chromogenic reagent in the development of a microfluidic paper-based analytical device for Fe(III) determination in natural waters. *Talanta*, **2020**, 214, 120887	6.2	7
50	Determination of salivary cotinine as tobacco smoking biomarker. *TrAC - Trends in Analytical Chemistry*, **2018**, 105, 89-97	14.6	7
49	Thermal modelling of a porous silicon-based pellistor-type catalytic flammable gas sensor with two supporting beams. *Microelectronics Journal*, **2000**, 31, 339-342	1.8	7
48	The nature of the salt error in the Sn(II)-reduced molybdenum blue reaction for determination of dissolved reactive phosphorus in saline waters. *Analytica Chimica Acta*, **2015**, 896, 120-7	6.6	6
47	Measuring Donnan-related phenomena using a solid-state ion sensor and a concentration-step method. *Journal of Membrane Science*, **1997**, 127, 203-221	9.6	6
46	Pervaporation-flow injection analysis of phenol after on-line derivatisation to phenyl acetate. *Analytica Chimica Acta*, **2003**, 485, 37-42	6.6	6
45	Mathematical modelling of single-line flow-injection analysis systems with single-layer enzyme electrode detection Part 3. Experimental verification of the model. *Analytica Chimica Acta*, **1991**, 254, 167-175	6.6	6
44	Transport of Rhodium(III) from Chloride Media across a Polymer Inclusion Membrane Containing an Ionic Liquid Metal Ion Carrier. *ACS Omega*, **2020**, 5, 12989-12995	3.9	5
43	Exploring the use of Dicranopteris pedata ash as a rare earth fertilizer to Ipomoea aquatica Forsskal. *Journal of Hazardous Materials*, **2020**, 400, 123207	12.8	5
42	Localization of mercury and gold in cassava (Manihot esculenta Crantz). *Environmental Science and Pollution Research*, **2020**, 27, 18498-18509	5.1	5
41	A novel hybrid flow platform for on-line simultaneous dynamic fractionation and evaluation of mercury lability in environmental solids. *Talanta*, **2018**, 178, 622-628	6.2	5
40	Mathematical modeling of a Nafion membrane based optode incorporating 1-(2-pyridylazo)-2-naphthol under flow injection conditions. *Talanta*, **2010**, 82, 1156-63	6.2	5
39	More with less: Advances in flow and paper-based monitoring of nutrients in aquatic systems. *Pure and Applied Chemistry*, **2012**, 84, 1973-1982	2.1	5
38	Mathematical modelling of a porous silicon-based pellistor-type catalytic flammable gas sensor. *Microelectronics Journal*, **1998**, 29, 235-239	1.8	5
37	Oscillating flow injection stripping potentiometry. *Analytica Chimica Acta*, **1995**, 309, 293-299	6.6	5
36	Mathematical modelling of single-line flow-injection analysis systems with single-layer enzyme electrode detection Part 2. Simulation of the mathematical model. *Analytica Chimica Acta*, **1990**, 241, 55-69	6.6	5
35	Volatile chemical emissions from essential oils with therapeutic claims. *Air Quality, Atmosphere and Health*, **2021**, 14, 365-369	5.6	5

34	A novel approach for enhancing metal ion separation using acoustic nebulisation. *Ultrasonics Sonochemistry*, **2012**, 19, 435-9	8.9	4
33	Polymer Inclusion Membranes: Concept and Applications. *Procedia Engineering*, **2012**, 44, 681-682		4
32	Initial loss of cyanide, thiocyanate, and thiosulfate adjuvants following amendment to an oxidic gold ore. *Minerals Engineering*, **2011**, 24, 1641-1643	4.9	4
31	Study of the extraction of 1-(2?-pyridylazo)-2-naphthol from ethanol water solutions into Nafion membranes. *Analytica Chimica Acta*, **1999**, 392, 201-211	6.6	4
30	Mathematical modelling and optimisation of a coulometric sensor actuator system based on three-dimensional diffusion. *Analytica Chimica Acta*, **1994**, 285, 247-263	6.6	4
29	Determination of rate constants and reaction orders with an open-closed flow-injection configuration. *Talanta*, **1991**, 38, 125-32	6.2	4
28	Unsteady motion in single-line flow-injection systems. *Analytica Chimica Acta*, **1987**, 201, 109-116	6.6	4
27	DEVELOPMENT OF FLOW INJECTION METHOD FOR ONLINE DETERMINATION OF THIOCYANATE BASED ON OXIDATION BY PERMANGANATE. *Indonesian Journal of Chemistry*, **2010**, 10, 167-171	1.5	4
26	A cross-linked polymer inclusion membrane for enhanced gold recovery from electronic waste. *Waste Management*, **2021**, 124, 54-62	8.6	4
25	Selective extraction of Bi(III) from sulfate solutions by a poly(vinyl chloride) based polymer inclusion membrane incorporating bis(2-ethylhexyl)phosphoric acid as the extractant. *Reactive and Functional Polymers*, **2021**, 164, 104935	4.6	4
24	Polymer inclusion membranes as substrates for controlled in-situ gold nanoparticle synthesis. *Reactive and Functional Polymers*, **2018**, 130, 81-89	4.6	3
23	Electrospun polystyrene/Aliquat 336 for preconcentration and determination of thiocyanate in flow analysis. *Electrospinning*, **2017**, 1, 100-110		3
22	Coupled Diffusion of Multiple Ionic Species in Ion-Exchange Membranes with Fixed Ionic Groups. *Separation Science and Technology*, **2003**, 38, 237-245	2.5	3
21	Analysis of the EU-27 Countries Energy Markets Integration in Terms of the Sustainable Development SDG7 Implementation. *Energies*, **2021**, 14, 7079	3.1	3
20	Volatile chemical emissions from car air fresheners. *Air Quality, Atmosphere and Health*, **2020**, 13, 1329-1334	3.6	3
19	Monitoring of ammonia in marine waters using a passive sampler with biofouling resistance and neural network-based calibration. *Environmental Pollution*, **2020**, 267, 115457	9.3	3
18	Polymer Inclusion Membranes **2019**, 439-461		3
17	Graphene/fluorescein dye-based sensor for detecting As(III) in drinking water. *Scientific Reports*, **2021**, 11, 17321	4.9	3

16	The Effect of Surface Confined Gold Nanoparticles in Blocking the Extraction of Nitrate by PVC-Based Polymer Inclusion Membranes Containing Aliquat 336 as the Carrier. *Membranes*, **2018**, 8,	3.8	2
15	Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions. *Analytica Chimica Acta*, **1998**, 377, 13-19	6.6	2
14	Study of the Reduction of 1-(2?-Pyridylazo)-2-Naphthol in Ethanol-Water Solutions. *Electroanalysis*, **2000**, 12, 841-845	3	2
13	Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions. *Analytica Chimica Acta*, **1996**, 329, 1-14	6.6	2
12	Limonene Emissions: Do Different Types Have Different Biological Effects?. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	2
11	Use of a Polymer Inclusion Membrane and a Chelating Resin for the Flow-Based Sequential Determination of Copper(II) and Zinc(II) in Natural Waters and Soil Leachates. *Molecules*, **2020**, 25,	4.8	2
10	Improving the extraction performance of polymer inclusion membranes by cross-linking their polymeric backbone. *Reactive and Functional Polymers*, **2021**, 160, 104813	4.6	2
9	Imaging chemical extraction by polymer inclusion membranes using fluorescence microscopy. *Methods and Applications in Fluorescence*, **2014**, 2, 024008	3.1	1
8	A Novel Membrane□Based Approach for the Remote Screening of as in Waters. *Procedia Engineering*, **2012**, 44, 801-803		1
7	Microfluidic Fabrication of Micropolymer Inclusion Beads for the Recovery of Gold from Electronic Scrap.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61661-61668	9.5	1
6	Development of micro polymer inclusion beads (□PIBs) for the extraction of lanthanum. *Separation and Purification Technology*, **2022**, 285, 120342	8.3	1
5	Membrane Techniques: Liquid Membranes **2018**, 1-1		1
4	Flow-through passive sampler for zinc in freshwaters free from flow pattern, water cationic composition and temperature effects. *Microchemical Journal*, **2022**, 177, 107294	4.8	1
3	Salivary Cotinine Assays **2019**, 411-418		
2	Differential toxicological effects of natural and synthetic sources and enantiomeric forms of limonene on mosquito larvae. *Air Quality, Atmosphere and Health*,1	5.6	
1	Hybrid organic-inorganic membranes based on sulfonated poly (ether ether ketone) matrix and iron-encapsulated carbon nanotubes and their application in CO separation.. *RSC Advances*, **2022**, 12, 13367-13380	3.7	