

Mohammad Reza Yaftian

List of Publications by Year in descending order

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104
papers

2,216
citations

201385

27
h-index

288905

40
g-index

105
all docs

105
docs citations

105
times ranked

2245
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of uranium(VI) ions from aqueous solutions using Schiff base functionalized SBA-15 mesoporous silica materials. <i>Journal of Environmental Management</i> , 2016, 169, 8-17.	3.8	180
2	Adsorption characteristics of Eu(III) and Th(IV) ions onto modified mesoporous silica SBA-15 materials. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 60, 174-184.	2.7	81
3	Synthesis and characterization of nanostructure molecularly imprinted polyaniline/graphene oxide composite as highly selective electrochemical sensor for detection of p -nitrophenol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 86, 213-221.	2.7	69
4	Potential of functionalized SBA-15 mesoporous materials for decontamination of water solutions from Cr(VI), As(V) and Hg(II) ions. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 986-995.	3.3	67
5	A new diclofenac molecularly imprinted electrochemical sensor based upon a polyaniline/reduced graphene oxide nano-composite. <i>Biosensors and Bioelectronics</i> , 2018, 122, 160-167.	5.3	63
6	Rare-earth metal-ion separation using a supported liquid membrane mediated by a narrow rim phosphorylated calix[4]arene. <i>Journal of Membrane Science</i> , 1998, 144, 57-64.	4.1	60
7	Adsorption of lead, zinc and cadmium ions from contaminated water onto Peganum harmala seeds as biosorbent. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 93-102.	1.8	56
8	Electromembrane extraction-preconcentration followed by microvolume UV-Vis spectrophotometric determination of mercury in water and fish samples. <i>Food Chemistry</i> , 2017, 221, 714-720.	4.2	51
9	Selective extraction of vanadium(V) from sulfate solutions into a polymer inclusion membrane composed of poly(vinylidene fluoride-co-hexafluoropropylene) and Cyphos® IL 101. <i>Journal of Membrane Science</i> , 2018, 545, 57-65.	4.1	49
10	SOLVENT EXTRACTION OF THE RARE-EARTH METAL IONS BY A CONE-SHAPED CALDC[4]ARENE SUBSTITUTED AT THE LOWER RTM BY FOUR -CH ₂ P(O)Ph ₂ LIGANDS. <i>Solvent Extraction and Ion Exchange</i> , 1997, 15, 975-989.	0.8	45
11	Refinement of contaminated water by Cr(VI), As(V) and Hg(II) using N -donor ligands arranged on SBA-15 platform; batch and fixed-bed column methods. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 325-337.	2.7	45
12	Thermodynamics of the solvent extraction of thorium and europium nitrates by neutral phosphorylated ligands. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 262, 455-459.	0.7	43
13	Determination of melamine in dairy products using electromembrane-LPME followed by HPLC. <i>Food Chemistry</i> , 2015, 188, 92-98.	4.2	43
14	Determination of cadmium(II) ion by atomic absorption spectrometry after cloud point extraction. <i>Journal of the Iranian Chemical Society</i> , 2012, 9, 251-256.	1.2	42
15	Cloud point extraction and flame atomic absorption spectrometry determination of trace amounts of copper(II) ions in water samples. <i>Journal of Colloid and Interface Science</i> , 2009, 334, 167-170.	5.0	41
16	Multivariate statistical assessment of heavy metal pollution sources of groundwater around a lead and zinc plant. <i>Iranian Journal of Environmental Health Science & Engineering</i> , 2012, 9, 29.	1.8	39
17	Assessment of spatial distribution pattern of heavy metals surrounding a lead and zinc production plant in Zanjan Province, Iran. <i>Geoderma Regional</i> , 2018, 12, 10-17.	0.9	38
18	PVDF-HFP based polymer inclusion membranes containing Cyphos® IL 101 and Aliquat® 336 for the removal of Cr(VI) from sulfate solutions. <i>Separation and Purification Technology</i> , 2020, 250, 117251.	3.9	38

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19	Solvent extraction of thorium, lanthanum and europium ions by bis(2-ethylhexyl)phosphoric acid using 2-nitrobenzo-18-crown-6 as ion size selective masking agent. <i>Separation and Purification Technology</i> , 2004, 40, 115-121.	3.9	37
20	Silica nanoparticles modified with a Schiff base ligand: An efficient adsorbent for Th(IV), U(VI) and Eu(III) ions. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1644-1651.	1.2	36
21	Highly selective and sensitive Th ⁴⁺ -PVC-based membrane sensor based on 2-(diphenylphosphorothioyl)-N,N'-diphenylacetamide. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 827-833.	1.5	32
22	Solvent extraction-separation of La(III), Eu(III) and Er(III) ions from aqueous chloride medium using carbamoyl-carboxylic acid extractants. <i>Journal of Rare Earths</i> , 2016, 34, 91-98.	2.5	32
23	SBA-15 mesoporous materials decorated with organic ligands: use as adsorbents for heavy metal ions. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 561-572.	1.2	31
24	EXTRACTIVE PROPERTIES TOWARDS RARE-EARTH METAL IONS OF CALIX[4] ARENES SUBSTITUTED AT THE NARROW RIM BY PHOSPHORYL AND AMIDE GROUPS. <i>Solvent Extraction and Ion Exchange</i> , 1998, 16, 1131-1149.	0.8	30
25	Adsorption of Eu(III), Th(IV), and U(VI) by mesoporous solid materials bearing sulfonic acid and sulfamic acid functionalities. <i>Separation Science and Technology</i> , 2019, 54, 2609-2624.	1.3	30
26	A Coated Wire-type Lead(II) Ion-Selective Electrode Based on a Phosphorylated Calix[4]arene Derivative. <i>Analytical Sciences</i> , 2006, 22, 1075-1078.	0.8	29
27	Enrichment of trace amounts of copper(II) ions in water samples using octadecyl silica disks modified by a Schiff base ionophore prior to flame atomic absorption spectrometric determination. <i>Journal of Hazardous Materials</i> , 2009, 164, 133-137.	6.5	28
28	Adsorption of Th(IV) and U(VI) on functionalized SBA-15 mesoporous silica materials using fixed bed column method; breakthrough curves prediction and modeling. <i>Separation Science and Technology</i> , 2018, 53, 1282-1294.	1.3	27
29	Li ₂ S/transition metal carbide composite as cathode material for high performance lithium-sulfur batteries. <i>Materials Chemistry and Physics</i> , 2018, 217, 117-124.	2.0	26
30	Solid phase extraction of copper(II) ions using C18-silica disks modified by oxime ligands. <i>Journal of Hazardous Materials</i> , 2010, 179, 289-294.	6.5	25
31	Adsorption efficiency, thermodynamics and kinetics of Schiff base-modified nanoparticles for removal of heavy metals. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1707-1722.	1.8	25
32	Flow injection spectrophotometric determination of V(V) involving on-line separation using a poly(vinylidene fluoride-co-hexafluoropropylene)-based polymer inclusion membrane. <i>Talanta</i> , 2018, 181, 385-391.	2.9	22
33	Two-Dimensional Ti ₃ C ₂ TX/CMK-5 nanocomposite as high performance anodes for lithium batteries. <i>Journal of Alloys and Compounds</i> , 2018, 738, 130-137.	2.8	22
34	The cooperative effect of reduced graphene oxide and Triton X-114 on the electromembrane microextraction efficiency of Pramipexole as a model analyte in urine samples. <i>Talanta</i> , 2017, 162, 210-217.	2.9	21
35	Extraction of thorium(IV) and europium(III) by a phosphorylated calix[4]arene in dichloromethane. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 270, 357-361.	0.7	20
36	A new tetradentate N ₂ O ₂ -type Schiff base ligand. Synthesis, extractive properties towards transition metal ions and X-ray crystal structure of its nickel complex. <i>Transition Metal Chemistry</i> , 2007, 32, 374-378.	0.7	20

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37	Improved electromembrane microextraction efficiency of chloramphenicol in dairy products: the cooperation of reduced graphene oxide and a cationic surfactant. <i>RSC Advances</i> , 2016, 6, 112748-112755.	1.7	20
38	Electromembrane-microextraction of bismuth in pharmaceutical and human plasma samples: optimization using response surface methodology. <i>Microchemical Journal</i> , 2017, 130, 71-78.	2.3	20
39	Unmodified SBA-15 adsorbents for the removal and separation of Th(IV) and U(VI) ions: the role of pore channels and surface-active sites. <i>Separation Science and Technology</i> , 2019, 54, 2863-2878.	1.3	20
40	A Coated Graphite Thorium-Selective Potentiometric Sensor Based on a Calix[4]arene Bearing Phosphoryl Groups. <i>Journal of the Chinese Chemical Society</i> , 2006, 53, 1113-1118.	0.8	19
41	Fixed-bed column dynamic studies and breakthrough curve analysis of Eu(III) ion adsorption onto chemically modified SBA-15 silica materials. <i>Separation Science and Technology</i> , 2017, 52, 393-403.	1.3	19
42	Cobalt oxyhydroxide/graphene oxide nanocomposite for amelioration of electrochemical performance of lithium/sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 649-656.	1.2	19
43	Ultrasound-Assisted Emulsification-Microextraction/Ion Mobility Spectrometry Combination: Application for Analysis of Organophosphorus Pesticide Residues in Rice Samples. <i>Food Analytical Methods</i> , 2016, 9, 3006-3014.	1.3	18
44	A reduced graphene oxide@sulfur nanocomposite as a high-capacity host matrix for advanced lithium-sulfur batteries. <i>New Journal of Chemistry</i> , 2017, 41, 12589-12595.	1.4	18
45	Covalently modified magnetite nanoparticles with PEG: preparation and characterization as nano-adsorbent for removal of lead from wastewater. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 103.	1.4	17
46	Binding Ability of Crown Ethers Towards Pb(II) Ions in Binary Water/Organic Solvents Using Solvent Extraction Method. <i>Journal of Solution Chemistry</i> , 2015, 44, 1798-1811.	0.6	17
47	A Lead-Selective Membrane Electrode Based Upon a Phosphorylated Hexahomotrioxacalix[3]Arene. <i>Journal of the Chinese Chemical Society</i> , 2007, 54, 1535-1542.	0.8	16
48	A Novel Wire-Type Lead-Selective Electrode Based on Bis (1'-Hydroxy-2'-Acetonaphthone)-2,2'-Diiminodiethylamine. <i>Annali Di Chimica</i> , 2007, 97, 747-757.	0.6	16
49	Application of zinc/aluminum layered double hydroxide nanosorbent in a fixed-bed column for SPE-preconcentration followed by HPLC determination of diclofenac in biological and hospital wastewater samples. <i>Microchemical Journal</i> , 2019, 148, 270-276.	2.3	16
50	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. <i>Reactive and Functional Polymers</i> , 2021, 164, 104935.	2.0	16
51	Lower-RIM Polyphosphorylated Calix[4]arenes. Their Use as Extracting Agents for Thorium (IV) and Europium (III) Ions. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2003, 178, 1225-1230.	0.8	15
52	Adsorption of selected ions on hydrous cerium oxide. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 279, 65-74.	0.7	15
53	Multivariate Optimization of a Functionalized SBA-15 Mesoporous Based Solid-Phase Extraction for U(VI) Determination in Water Samples. <i>Analytical Sciences</i> , 2017, 33, 769-776.	0.8	15
54	Water soluble crown ethers: selective masking agents for improving extraction-separation of zinc and lead cations. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 63, 327-334.	1.6	14

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55	Determination of trace amounts of copper in water samples by flame atomic absorption spectrometry after preconcentration on octadecyl-bonded silica membranes modified by a Di-Schiff base ligand. <i>Journal of Analytical Chemistry</i> , 2010, 65, 614-619.	0.4	14
56	Separation and direct UV detection of complexed lanthanides, thorium and uranyl ions with 2-thenoyltrifluoroacetone by using capillary zone electrophoresis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 1143-1150.	0.7	14
57	Imprinted Azorubine electrochemical sensor based upon composition of MnO ₂ and 1-naphthylamine on graphite nanopowder. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 2713-2720.	1.2	14
58	Extraction-separation of Eu(III) and Th(IV) ions from nitrate media into a room-temperature ionic liquid. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 221-227.	1.2	13
59	Water-In-oil Emulsion Liquid Membrane Transport of L-Cysteine. <i>Separation Science and Technology</i> , 2013, 48, 105-112.	1.3	13
60	Investigation of heavy metal ions adsorption behavior of silica-supported Schiff base ligands. <i>Desalination and Water Treatment</i> , 2016, 57, 27396-27408.	1.0	13
61	Enhancing lithium-sulphur battery performance by copper oxide/graphene oxide nanocomposite-modified cathode. <i>Chemical Papers</i> , 2016, 70, .	1.0	13
62	Homogenizer assisted dispersive liquid-phase microextraction for the extraction-enrichment of phenols from aqueous samples and determination by gas chromatography. <i>Journal of Chromatography A</i> , 2020, 1614, 460733.	1.8	13
63	Determination of carbamazepine in formulation samples using dispersive liquid-liquid microextraction method followed by ion mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2016, 19, 51-56.	1.4	12
64	Application of a polymer inclusion membrane made of cellulose triacetate base polymer and trioctylamine for the selective extraction of bismuth(III) from chloride solutions. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51480.	1.3	12
65	On the Potential of a Poly(vinylidene fluoride-co-hexafluoropropylene) Polymer Inclusion Membrane Containing Aliquat® 336 and Dibutyl Phthalate for V(V) Extraction from Sulfate Solutions. <i>Membranes</i> , 2022, 12, 90.	1.4	12
66	A New Silver(I) Potentiometric Sensor Based on a Calix[4]arene Substituted at the Narrow Rim by Amide/Phosphoryl Groups. <i>Journal of the Chinese Chemical Society</i> , 2007, 54, 1529-1534.	0.8	11
67	<i>In situ</i> One-pot Electrochemical Synthesis of Aluminum Oxide/polyaniline Nanocomposite; Characterization and Its Adsorption Properties towards Some Heavy Metal Ions. <i>Journal of the Chinese Chemical Society</i> , 2015, 62, 1045-1052.	0.8	11
68	Flow-Injection Potentiometry by Poly(vinyl chloride)-Membrane Electrodes with Diphosphoryl-dicarboxylic acid-p-tert-butylcalix[4] arene Ionophore for the Determination of Th(IV) Ions. <i>Analytical Sciences</i> , 2013, 29, 361-366.	0.8	10
69	Zn/Al-layered double hydroxide-graphene oxide nanocomposite use in the solid-phase extraction-preconcentration and HPLC determination of diclofenac. <i>Chemical Papers</i> , 2020, 74, 4419-4432.	1.0	10
70	Application of Mg-Al and Zn-Al layered double hydroxides modified with sodium dodecyl benzene sulfonate as a solid sorbent for removal of diazinon from water samples. <i>Journal of the Iranian Chemical Society</i> , 2020, 17, 1411-1427.	1.2	10
71	Solvent Extraction of Th(IV) and Eu(III) Ions by 3,5-di-tert-butyl-2-Hydroxy-Benzaldehyde Oxime from Aqueous Chloride Media. <i>Separation Science and Technology</i> , 2012, 47, 670-676.	1.3	9
72	Ionophore Properties of Schiff Base Compounds as Ion Sensing Molecules for Fabricating Cu(II) Ion-Selective Electrodes. <i>Journal of Analytical Chemistry</i> , 2018, 73, 82-90.	0.4	9

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73	Molecularly imprinted poly (4,4'-methylene dianiline) as electrochemical sensor for determination of 1-benzothiophene. <i>Synthetic Metals</i> , 2020, 259, 116252.	2.1	9
74	Synthèse et propriétés ionophores des phospho-calix[4]arènes. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 1998, 1, 479-502.	0.1	8
75	Investigation on Cycling and Calendar Aging Processes of 3.4 Ah Lithium-Sulfur Pouch Cells. <i>Sustainability</i> , 2021, 13, 9473.	1.6	8
76	Microstructures and Mechanical Behavior of Ti ₃ SiC ₂ /Al ₂ O ₃ -Ni Composites Synthesized by Pulse Discharge Sintering. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 3600-3609.	1.2	8
77	Selective transport-recovery of bismuth(III) by a polymer inclusion membrane containing polyvinyl chloride base polymer and bis(2-ethylhexyl)phosphoric acid. <i>Separation and Purification Technology</i> , 2022, 285, 120375.	3.9	8
78	Highly Selective Extraction and Transport through a Bulk Liquid Membrane of L-Cysteine Using [K ⁺ ADC18C6]+Complexes. <i>Separation Science and Technology</i> , 2011, 46, 2473-2480.	1.3	7
79	Corona discharge ion mobility spectrometry combined by homogenizer assisted dispersive liquid-phase microextraction; A rapid and sensitive method for quantification of nortriptyline. <i>Microchemical Journal</i> , 2020, 159, 105540.	2.3	7
80	Crown Ethers Bearing 18C6 Unit; Sensory Molecules for Fabricating PVC Membrane Lead Ion-selective Electrodes. <i>Journal of the Chinese Chemical Society</i> , 2011, 58, 673-680.	0.8	6
81	Emulsion liquid membrane pertraction of l-cysteine from sodium chloride aqueous solutions mediated by a narrow rim phosphorylated cone-shaped calix[4]arene. <i>Journal of the Iranian Chemical Society</i> , 2012, 9, 783-789.	1.2	6
82	Preconcentration and determination of Pb(ii), Cu(ii) and Cd(ii) ions on octadecyl silica membrane disk modified with 2-mercapto-benzimidazole by flame atomic absorption spectrometry. <i>Analytical Methods</i> , 2012, 4, 2318.	1.3	6
83	Development of a cloud-point extraction method for determination of trace amounts of copper(II) in water samples. <i>Journal of Analytical Chemistry</i> , 2015, 70, 1085-1091.	0.4	6
84	A fast and sensitive detection of low-level chloramphenicol in food samples using the IMS/homogenizer assisted DLPMME combination. <i>Journal of Food Composition and Analysis</i> , 2022, 105, 104204.	1.9	6
85	Fabrication and evaluation of a molecularly imprinted polymer electrochemical nanosensor for the sensitive monitoring of phenobarbital in biological samples. <i>Microchemical Journal</i> , 2022, 174, 107063.	2.3	6
86	A parametric study on encapsulation of elemental sulfur inside CNTs by sonically assisted capillary method: Cathodic material for rechargeable Li-S batteries. <i>Microporous and Mesoporous Materials</i> , 2022, 340, 112033.	2.2	6
87	INFLUENCE OF THE TEMPERATURE ON THE SOLVENT EXTRACTION OF SOME LANTHANIDE PICRATES BY A PHOSPHORYLATED CALIX[4]ARENE. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2001, 174, 93-100.	0.8	5
88	Cooperative effect of 2-(dibutylcarbamoyl)benzoic acid and 2-thenoyltrifluoroacetone for the synergistic extraction of lanthanide ions. <i>Separation Science and Technology</i> , 2016, 51, 1351-1361.	1.3	5
89	Combination of size selective binding ability of 18-crown-6 dissolved in aqueous phase and extractive properties of an amic acid; toward enhancement of rare earths separation. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 2085-2091.	1.2	4
90	Magnetic nanofibrous polyaniline nanocomposite for solid-phase extraction of naproxen from biological samples prior to its spectrofluorimetric determination. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 1209-1221.	1.2	4

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91	Electrochemical oxidation of acetaminophen in the presence of diclofenac and piroxicam - Synthesis of new derivatives and kinetic investigation of toxic quinone imine/drugs interactions. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 160-166.	1.9	4
92	Graphitic carbon nitride-graphene nanoplates; Application in the sensitive electrochemical detection of nospapine. <i>Synthetic Metals</i> , 2020, 268, 116489.	2.1	4
93	Molecularly imprinted poly(4,4'-methylenedianiline) for selective electrochemical detection of dibenzothiophene. <i>Iranian Polymer Journal (English Edition)</i> , 2020, 29, 403-409.	1.3	4
94	A study on the discrimination of xylene isomers vapors by quartz crystal microbalance sensors. <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 751-763.	1.2	4
95	Membrane extraction of V(V) by an oleic acid plasticized poly(vinyl chloride)/Aliquat® 336 polymer inclusion membrane. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	4
96	Simultaneous mixture analysis by using non-linear spectrophotometric data and linear iterative target transformation factor analysis. <i>Analytica Chimica Acta</i> , 2005, 531, 153-160.	2.6	3
97	Bis(2-acetyl-1-naphtholato- λ^2 O, λ^2)copper(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, m898-m899.	0.2	3
98	Investigation of bovine serum albumin/tropicamide interaction using a quartz crystal microbalance sensor. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 1191-1198.	1.2	3
99	Voltammetric determination of trace copper(II), cadmium(II), and lead(II) using a Schiff base modified glassy carbon working electrode. <i>Monatshefte für Chemie</i> , 2021, 152, 51-59.	0.9	3
100	Application of Polyurethane Foam Loaded with a Schiff Base Ligand for Determination of Trace Amounts of Copper in Water Samples by Flame Atomic Absorption Spectroscopy. <i>Journal of the Korean Chemical Society</i> , 2014, 58, 283-288.	0.2	1
101	Synthesis of a novel ion-imprinted polyaniline/hyper-cross-linked polystyrene nanocomposite for selective removal of lead(II) ions from aqueous solutions. , 0, 82, 210-218.		1
102	Application of organic gas steam-liquid extraction system for extraction and separation of uranium from water samples as a new efficient method. <i>Radiochimica Acta</i> , 2022, 110, 833-840.	0.5	1
103	Potential of L-tyrosine and L-tryptophan modified silica nanoparticles as adsorbents for Pb(II) ions: kinetics and thermodynamic investigation. , 0, 92, 255-266.		0
104	Introducing Organic Gas Steam-Liquid Extraction as a New Preconcentration Method for Benzene, Toluene, Ethylbenzene and Xylene Determination in Water Samples by Gas Chromatography-Flame Ionization Detection. <i>Journal of Analytical Chemistry</i> , 2022, 77, 505-512.	0.4	0