Jared L Anderson

List of Publications by Year
in descending order

171	11,487	30070 54	30922 102
papers	citations	h-index	g-index

173	173	173	7250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterizing Ionic Liquids On the Basis of Multiple Solvation Interactions. Journal of the American Chemical Society, 2002, 124, 14247-14254.	13.7	1,036
2	Structure and Properties of High Stability Geminal Dicationic Ionic Liquids. Journal of the American Chemical Society, 2005, 127, 593-604.	13.7	712
3	High-Stability Ionic Liquids. A New Class of Stationary Phases for Gas Chromatography. Analytical Chemistry, 2003, 75, 4851-4858.	6.5	455
4	Ionic Liquids in Analytical Chemistry. Analytical Chemistry, 2006, 78, 2892-2902.	6.5	433
5	Ionic Liquids in Analytical Chemistry: Fundamentals, Advances, and Perspectives. Analytical Chemistry, 2014, 86, 262-285.	6.5	422
6	Immobilized Ionic Liquids as High-Selectivity/High-Temperature/High-Stability Gas Chromatography Stationary Phases. Analytical Chemistry, 2005, 77, 6453-6462.	6.5	388
7	Surfactant solvation effects and micelle formation in ionic liquids. Chemical Communications, 2003, , 2444.	4.1	338
8	Interfacial and micellar properties of imidazolium-based monocationic and dicationic ionic liquids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 302, 150-156.	4.7	258
9	Ionic liquids in solid-phase microextraction: A review. Analytica Chimica Acta, 2011, 695, 18-43.	5.4	258
10	Polymeric ionic liquids as selective coatings for the extraction of esters using solid-phase microextraction. Journal of Chromatography A, 2008, 1208, 1-9.	3.7	222
11	Dispersive liquidâ€“liquid microextraction using an in situ metathesis reaction to form an ionic liquid extraction phase for the preconcentration of aromatic compounds from water. Analytical and Bioanalytical Chemistry, 2009, 395, 1491-1502.	3.7	193
12	Advances of Ionic Liquids in Analytical Chemistry. Analytical Chemistry, 2019, 91, 505-531.	6.5	180
13	Extraction of DNA by Magnetic Ionic Liquids: Tunable Solvents for Rapid and Selective DNA Analysis. Analytical Chemistry, 2015, 87, 1552-1559.	6.5	176
14	Magnetic ionic liquids in analytical chemistry: A review. Analytica Chimica Acta, 2016, 934, 9-21.	5.4	174
15	Recent advances of ionic liquids in separation science and mass spectrometry. RSC Advances, 2012, 2, 5470.	3.6	168
16	Ionic Liquids Containing the Tris(pentafluoroethyl)trifluorophosphate Anion: a New Class of Highly Selective and Ultra Hydrophobic Solvents for the Extraction of Polycyclic Aromatic Hydrocarbons Using Single Drop Microextraction. Analytical Chemistry, 2009, 81, 5054-5063.	6.5	165
17	Retention characteristics of organic compounds on molten salt and ionic liquid-based gas chromatography stationary phases. Journal of Chromatography A, 2009, 1216, 1658-1712.	3.7	134
18	Ionic liquid and polymeric ionic liquid coatings in solid-phase microextraction. TrAC - Trends in Analytical Chemistry, 2013, 45, 219-232.	11.4	134

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19	Ionic liquids: solvents and sorbents in sample preparation. Journal of Separation Science, 2018, 41, 209-235.	2.5	126
20	Utilization of a benzyl functionalized polymeric ionic liquid for the sensitive determination of polycyclic aromatic hydrocarbons; parabens and alkylphenols in waters using solid-phase microextraction coupled to gas chromatographyâ€“flame ionization detection. Journal of Chromatography A, 2010, 1217, 7189-7197.	3.7	122
21	Non-conventional solvents in liquid phase microextraction and aqueous biphasic systems. Journal of Chromatography A, 2017, 1500, 1-23.	3.7	114
22	Tuning the selectivity of polymeric ionic liquid sorbent coatings for the extraction of polycyclic aromatic hydrocarbons using solid-phase microextraction. Journal of Chromatography A, 2010, 1217, 6143-6152.	3.7	108
23	Determination of water pollutants by direct-immersion solid-phase microextraction using polymeric ionic liquid coatings. Journal of Chromatography A, 2010, 1217, 1236-1243.	3.7	105
24	Selective extraction of emerging contaminants from water samples by dispersive liquidâ€“liquid microextraction using functionalized ionic liquids. Journal of Chromatography A, 2011, 1218, 1556-1566.	3.7	105
25	Deep eutectic solvents in separations: Methods of preparation, polarity, and applications in extractions and capillary electrochromatography. Journal of Chromatography A, 2020, 1633, 461613.	3.7	97
26	Polymeric Ionic Liquids as CO₂ Selective Sorbent Coatings for Solid-Phase Microextraction. Analytical Chemistry, 2010, 82, 707-713.	6.5	94
27	Role of counteranions in polymeric ionic liquid-based solid-phase microextraction coatings for the selective extraction of polar compounds. Analytica Chimica Acta, 2011, 687, 141-149.	5.4	93
28	Ionic Liquid-Based Surfactants in Separation Science. Separation Science and Technology, 2012, 47, 264-276.	2.5	92
29	Gas-Phase Ion Association Provides Increased Selectivity and Sensitivity for Measuring Perchlorate by Mass Spectrometry. Analytical Chemistry, 2005, 77, 4829-4835.	6.5	84
30	Ultraviolet Photoinitiated On-Fiber Copolymerization of Ionic Liquid Sorbent Coatings for Headspace and Direct Immersion Solid-Phase Microextraction. Analytical Chemistry, 2012, 84, 9520-9528.	6.5	81
31	Faster dispersive liquid-liquid microextraction methods using magnetic ionic liquids as solvents. Journal of Chromatography A, 2016, 1463, 11-19.	3.7	81
32	Synthetic Strategies for Tailoring the Physicochemical and Magnetic Properties of Hydrophobic Magnetic Ionic Liquids. Chemistry of Materials, 2015, 27, 923-931.	6.7	80
33	Headspace single drop microextraction versus dispersive liquid-liquid microextraction using magnetic ionic liquid extraction solvents. Talanta, 2017, 167, 268-278.	5.5	80
34	Ionic liquids as solvents for in situ dispersive liquidâ€“liquid microextraction of DNA. Journal of Chromatography A, 2013, 1272, 8-14.	3.7	78
35	Exploiting the Versatility of Ionic Liquids in Separation Science: Determination of Low-Volatility Aliphatic Hydrocarbons and Fatty Acid Methyl Esters Using Headspace Solid-Phase Microextraction Coupled to Gas Chromatography. Analytical Chemistry, 2009, 81, 7107-7112.	6.5	76
36	Sample Preparation for Bioanalytical and Pharmaceutical Analysis. Analytical Chemistry, 2016, 88, 11262-11270.	6.5	73

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37	Introducing a new and rapid microextraction approach based on magnetic ionic liquids: Stir bar dispersive liquid microextraction. Analytica Chimica Acta, 2017, 983, 130-140.	5.4	72
38	Trace determination of volatile polycyclic aromatic hydrocarbons in natural waters by magnetic ionic liquid-based stir bar dispersive liquid microextraction. Talanta, 2018, 176, 253-261.	5.5	72
39	Solid-phase microextraction of heavy metals in natural water with a polypyrrole/carbon nanotube/1, 10â€“phenanthroline composite sorbent material. Talanta, 2018, 188, 570-577.	5.5	71
40	Magnetic ionic liquids as PCR-compatible solvents for DNA extraction from biological samples. Chemical Communications, 2015, 51, 16771-16773.	4.1	70
41	Single drop microextraction in a 96-well plate format: A step toward automated and high-throughput analysis. Analytica Chimica Acta, 2019, 1063, 159-166.	5.4	67
42	Chemical immobilization of crosslinked polymeric ionic liquids on nitinol wires produces highly robust sorbent coatings for solid-phase microextraction. Analytica Chimica Acta, 2014, 843, 18-26.	5.4	65
43	Magnetic ionic liquids as non-conventional extraction solvents for the determination of polycyclic aromatic hydrocarbons. Analytica Chimica Acta, 2016, 934, 106-113.	5.4	64
44	Magnetic ionic liquids as extraction solvents in vacuum headspace single-drop microextraction. Talanta, 2017, 172, 86-94.	5.5	64
45	Determination of polychlorinated biphenyls in ocean water and bovine milk using crosslinked polymeric ionic liquid sorbent coatings by solid-phase microextraction. Talanta, 2014, 118, 172-179.	5.5	63
46	Synthesis and characterization of low viscosity hexafluoroacetylacetonate-based hydrophobic magnetic ionic liquids. New Journal of Chemistry, 2017, 41, 5498-5505.	2.8	63
47	Rapid and sensitive analysis of polychlorinated biphenyls and acrylamide in food samples using ionic liquid-based in situ dispersive liquid-liquid microextraction coupled to headspace gas chromatography. Journal of Chromatography A, 2017, 1481, 1-11.	3.7	63
48	Visual Detection of Single-Nucleotide Polymorphisms Using Molecular Beacon Loop-Mediated Isothermal Amplification with Centrifuge-Free DNA Extraction. Analytical Chemistry, 2019, 91, 6991-6995.	6.5	63
49	Utilization of highly robust and selective crosslinked polymeric ionic liquid-based sorbent coatings in direct-immersion solid-phase microextraction and high-performance liquid chromatography for determining polar organic pollutants in waters. Talanta, 2016, 158, 125-133.	5.5	60
50	Crosslinked polymeric ionic liquids as solid-phase microextraction sorbent coatings for high performance liquid chromatography. Journal of Chromatography A, 2016, 1438, 10-21.	3.7	60
51	Synthesis of copolyimides based on room temperature ionic liquid diamines. Journal of Polymer Science Part A, 2010, 48, 4036-4046.	2.3	58
52	Magnetic ionic liquids as versatile extraction phases for the rapid determination of estrogens in human urine by dispersive liquid-liquid microextraction coupled with high-performance liquid chromatography-diode array detection. Analytical and Bioanalytical Chemistry, 2018, 410, 4689-4699.	3.7	58
53	Polymeric ionic liquid coatings versus commercial solid-phase microextraction coatings for the determination of volatile compounds in cheeses. Talanta, 2014, 121, 153-162.	5.5	55
54	Determination of acrylamide in brewed coffee and coffee powder using polymeric ionic liquid-based sorbent coatings in solid-phase microextraction coupled to gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2016, 1449, 2-7.	3.7	55

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55	Exploiting the tunable selectivity features of polymeric ionic liquid-based SPME sorbents in food analysis. Talanta, 2018, 188, 522-530.	5.5	55
56	Vacuum-assisted headspace-solid phase microextraction for determining volatile free fatty acids and phenols. Investigations on the effect of pressure on competitive adsorption phenomena in a multicomponent system. Analytica Chimica Acta, 2017, 962, 41-51.	5.4	53
57	Extraction and Purification of DNA from Complex Biological Sample Matrices Using Solid-Phase Microextraction Coupled with Real-Time PCR. Analytical Chemistry, 2016, 88, 7813-7820.	6.5	52
58	Ionic liquid stationary phases for multidimensional gas chromatography. TrAC - Trends in Analytical Chemistry, 2018, 105, 367-379.	11.4	51
59	Preconcentration of DNA using magnetic ionic liquids that are compatible with real-time PCR for rapid nucleic acid quantification. Analytical and Bioanalytical Chemistry, 2018, 410, 4135-4144.	3.7	49
60	Selective extraction of genotoxic impurities and structurally alerting compounds using polymeric ionic liquid sorbent coatings in solid-phase microextraction: Alkyl halides and aromatics. Journal of Chromatography A, 2012, 1240, 29-44.	3.7	48
61	Tuning the Selectivity of Ionic Liquid Stationary Phases for Enhanced Separation of Nonpolar Analytes in Kerosene Using Multidimensional Gas Chromatography. Analytical Chemistry, 2014, 86, 3717-3721.	6.5	48
62	Electropolymerized Pyrrole-Based Conductive Polymeric Ionic Liquids and Their Application for Solid-Phase Microextraction. ACS Applied Materials & Interfaces, 2017, 9, 24955-24963.	8.0	48
63	Nucleic acid extraction: Fundamentals of sample preparation methodologies, current advancements, and future endeavors. TrAC - Trends in Analytical Chemistry, 2020, 130, 115985.	11.4	48
64	In situ formation of hydrophobic magnetic ionic liquids for dispersive liquid-liquid microextraction. Journal of Chromatography A, 2019, 1588, 8-16.	3.7	47
65	Enhanced magnetic ionic liquid-based dispersive liquid-liquid microextraction of triazines and sulfonamides through a one-pot, pH-modulated approach. Journal of Chromatography A, 2018, 1571, 47-54.	3.7	46
66	Capture, Concentration, and Detection of Salmonella in Foods Using Magnetic Ionic Liquids and Recombinase Polymerase Amplification. Analytical Chemistry, 2019, 91, 1113-1120.	6.5	46
67	Rapid and sensitive analysis of microcystins using ionic liquid-based in situ dispersive liquidâ€“liquid microextraction. Journal of Chromatography A, 2015, 1406, 10-18.	3.7	45
68	Polymeric ionic liquid bucky gels as sorbent coatings for solid-phase microextraction. Journal of Chromatography A, 2014, 1344, 15-22.	3.7	44
69	A chemometric approach toward the detection and quantification of coffee adulteration by solid-phase microextraction using polymeric ionic liquid sorbent coatings. Journal of Chromatography A, 2014, 1346, 1-7.	3.7	43
70	Thermochemical investigations of solute transfer into ionic liquid solvents: updated Abraham model equation coefficients for solute activity coefficient and partition coefficient predictions. Physics and Chemistry of Liquids, 2014, 52, 488-518.	1.2	42
71	Conductive polymeric ionic liquids for electroanalysis and solid-phase microextraction. Analytica Chimica Acta, 2016, 910, 45-52.	5.4	41
72	Determination of trace level genotoxic impurities in small molecule drug substances using conventional headspace gas chromatography with contemporary ionic liquid diluents and electron capture detection. Journal of Chromatography A, 2014, 1361, 217-228.	3.7	40

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73	Rapid preconcentration of viable bacteria using magnetic ionic liquids for PCR amplification and culture-based diagnostics. Analytical and Bioanalytical Chemistry, 2017, 409, 4983-4991.	3.7	40
74	Expanding the use of polymeric ionic liquids in headspace solid-phase microextraction: Determination of ultraviolet filters in water samples. Journal of Chromatography A, 2018, 1540, 11-20.	3.7	40
75	Extraction of DNA with magnetic ionic liquids using in situ dispersive liquidâ€“liquid microextraction. Analytical and Bioanalytical Chemistry, 2019, 411, 7375-7385.	3.7	40
76	Synthesis of glucaminium-based ionic liquids and their application in the removal of boron from water. Chemical Communications, 2012, 48, 1410-1412.	4.1	38
77	Ionâ€Tagged Oligonucleotides Coupled with a Magnetic Liquid Support for the Sequenceâ€Specific Capture of DNA. Angewandte Chemie - International Edition, 2017, 56, 7630-7633.	13.8	38
78	Matrix solid-phase dispersion based on magnetic ionic liquids: An alternative sample preparation approach for the extraction of pesticides from vegetables. Journal of Chromatography A, 2018, 1581-1582, 168-172.	3.7	38
79	Preservation of DNA in nuclease-rich samples using magnetic ionic liquids. RSC Advances, 2016, 6, 39846-39851.	3.6	37
80	Developing qualitative extraction profiles of coffee aromas utilizing polymeric ionic liquid sorbent coatings in headspace solid-phase microextraction gas chromatographyâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 401, 2965-2976.	3.7	36
81	In situ generation of hydrophobic magnetic ionic liquids in stir bar dispersive liquid-liquid microextraction coupled with headspace gas chromatography. Talanta, 2019, 196, 420-428.	5.5	36
82	Ionic liquid-alkane association in dilute solutions. Theoretical Chemistry Accounts, 2006, 117, 127-135.	1.4	35
83	Solid-phase extraction, quantification, and selective determination of microcystins in water with a gold-polypyrrole nanocomposite sorbent material. Journal of Chromatography A, 2018, 1560, 1-9.	3.7	35
84	Insight into the extraction mechanism of polymeric ionic liquid sorbent coatings in solid-phase microextraction. Journal of Chromatography A, 2013, 1298, 146-151.	3.7	34
85	Advances in the analysis of biological samples using ionic liquids. Analytical and Bioanalytical Chemistry, 2018, 410, 4567-4573.	3.7	33
86	Identifying important structural features of ionic liquid stationary phases for the selective separation of nonpolar analytes by comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2015, 1386, 89-97.	3.7	32
87	Matrix-compatible sorbent coatings based on structurally-tuned polymeric ionic liquids for the determination of acrylamide in brewed coffee and coffee powder using solid-phase microextraction. Journal of Chromatography A, 2016, 1459, 17-23.	3.7	32
88	Use of ionic liquids as headspace gas chromatography diluents for the analysis of residual solvents in pharmaceuticals. Journal of Pharmaceutical and Biomedical Analysis, 2017, 145, 879-886.	2.8	32
89	Solid-Phase Microextraction of DNA from Mycobacteria in Artificial Sputum Samples To Enable Visual Detection Using Isothermal Amplification. Analytical Chemistry, 2018, 90, 6922-6928.	6.5	32
90	Headspace Single Drop Microextraction Using Micellar Ionic Liquid Extraction Solvents. Chromatographia, 2010, 72, 393-402.	1.3	31

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91	Characterization of the aroma profile of novel Brazilian wines by solid-phase microextraction using polymeric ionic liquid sorbent coatings. Analytical and Bioanalytical Chemistry, 2018, 410, 4749-4762.	3.7	31
92	Polymeric ionic liquid sorbent coatings in headspace solid-phase microextraction: A green sample preparation technique for the determination of pesticides in soil. Microchemical Journal, 2020, 157, 104996.	4.5	31
93	Determination of solute partition behavior with room-temperature ionic liquid based micellar gasâ€“liquid chromatography stationary phases using the pseudophase model. Journal of Chromatography A, 2006, 1115, 217-224.	3.7	30
94	Selective and Efficient RNA Analysis by Solid-Phase Microextraction. Analytical Chemistry, 2017, 89, 10661-10666.	6.5	30
95	Silver-based polymeric ionic liquid sorbent coatings for solid-phase microextraction: Materials for the selective extraction of unsaturated compounds. Analytica Chimica Acta, 2019, 1047, 52-61.	5.4	30
96	Solid-Phase Microextraction Enables Isolation of BRAF V600E Circulating Tumor DNA from Human Plasma for Detection with a Molecular Beacon Loop-Mediated Isothermal Amplification Assay. Analytical Chemistry, 2020, 92, 3346-3353.	6.5	30
97	Argentation gas chromatography revisited: Separation of light olefin/paraffin mixtures using silver-based ionic liquid stationary phases. Journal of Chromatography A, 2017, 1523, 316-320.	3.7	29
98	Separation of racemic sulfoxides and sulfinate esters on four derivatized cyclodextrin chiral stationary phases using capillary gas chromatography. Journal of Chromatography A, 2002, 946, 197-208.	3.7	28
99	Zwitterionic polymeric ionic liquid-based sorbent coatings in solid phase microextraction for the determination of short chain free fatty acids. Talanta, 2019, 200, 415-423.	5.5	28
100	Theory and Use of the Pseudophase Model in Gasâ^'Liquid Chromatographic Enantiomeric Separations. Analytical Chemistry, 2006, 78, 113-119.	6.5	27
101	Sequence-Specific Detection of ORF1a, BRAF, and ompW DNA Sequences with Loop Mediated Isothermal Amplification on Lateral Flow Immunoassay Strips Enabled by Molecular Beacons. Analytical Chemistry, 2021, 93, 4149-4153.	6.5	27
102	Double salts of ionic-liquid-based surfactants in microextraction: application of their mixed hemimicelles as novel sorbents in magnetic-assisted micro-dispersive solid-phase extraction for the determination of phenols. Analytical and Bioanalytical Chemistry, 2015, 407, 8753-8764.	3.7	26
103	Lipidic ionic liquid stationary phases for the separation of aliphatic hydrocarbons by comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2017, 1481, 127-136.	3.7	26
104	Correlation of the Solubilizing Abilities of Hexyl(trimethyl)ammonium bis((Trifluoromethyl)sulfonyl)imide, 1-Propyl-1-methylpiperidinium bis((Trifluoromethyl)sulfonyl)imide, and 1-Butyl-1-methyl-pyrrolidinium Thiocyanate. Journal of Solution Chemistry, 2011, 40, 2000-2022.	1.2	25
105	Automated direct-immersion solid-phase microextraction using crosslinked polymeric ionic liquid sorbent coatings for the determination of water pollutants by gas chromatography. Analytical and Bioanalytical Chemistry, 2015, 407, 4615-4627.	3.7	25
106	Determination of UV filters in high ionic strength sample solutions using matrix-compatible coatings for solid-phase microextraction. Talanta, 2018, 182, 74-82.	5.5	25
107	Development of an innovative and sustainable one-step method for rapid plant DNA isolation for targeted PCR using magnetic ionic liquids. Plant Methods, 2019, 15, 23.	4.3	25
108	Ionic liquids as stationary phases for gas chromatographyâ€”Unusual selectivity of ionic liquids with a phosphonium cation and different anions in the flavor, fragrance and essential oil analyses. Journal of Chromatography A, 2019, 1583, 124-135.	3.7	25

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109	Correlation of the Solubilizing Abilities of 1-Butyl-1-methylpiperidinium Bis(trifluoromethylsulfonyl)imide and 1-Butyl-1-methylpyrrolidinium Tetracyanoborate. Journal of Solution Chemistry, 2012, 41, 1165-1184.	1.2	24
110	Determination of volatile polycyclic aromatic hydrocarbons in waters using headspace solid-phase microextraction with a benzyl-functionalized crosslinked polymeric ionic liquid coating. Environmental Technology (United Kingdom), 2017, 38, 1897-1904.	2.2	24
111	Magnetic ionic liquids based on transition metal complexes with N-alkylimidazole ligands. New Journal of Chemistry, 2019, 43, 20-23.	2.8	24
112	Advances in Mutation Detection Using Loop-Mediated Isothermal Amplification. ACS Omega, 2021, 6, 3463-3469.	3.5	22
113	Comparing the extraction performance of cyclodextrin-containing supramolecular deep eutectic solvents versus conventional deep eutectic solvents by headspace single drop microextraction. Journal of Chromatography A, 2021, 1658, 462588.	3.7	22
114	Evaluating the complexation behavior and regeneration of boron selective glucaminium-based ionic liquids when used as extraction solvents. Analytica Chimica Acta, 2012, 740, 66-73.	5.4	21
115	Correlation of the Solubilizing Abilities of 1-Butyl-1-methyl-pyrrolidinium Tris(pentafluoroethyl)trifluorophosphate, 1-Butyl-1-methylpyrrolidinium Triflate and 1-Methoxyethyl-1-methylmorpholinium Tris(pentafluoroethyl)trifluorophosphate. Journal of Solution Chemistry, 2013, 42, 772-799.	1.2	21
116	Ionic liquids as tunable materials in (bio)analytical chemistry. Analytical and Bioanalytical Chemistry, 2018, 410, 4565-4566.	3.7	21
117	Metal-containing and magnetic ionic liquids in analytical extractions and gas separations. TrAC - Trends in Analytical Chemistry, 2021, 140, 116275.	11.4	21
118	Crosslinked structurally-tuned polymeric ionic liquids as stationary phases for the analysis of hydrocarbons in kerosene and diesel fuels by comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2016, 1440, 160-171.	3.7	20
119	Ultra-high thermal stability perarylated ionic liquids as gas chromatographic stationary phases for the selective separation of polyaromatic hydrocarbons and polychlorinated biphenyls. Journal of Chromatography A, 2019, 1604, 460466.	3.7	20
120	Magnetic ionic liquid-enhanced isothermal nucleic acid amplification and its application to rapid visual DNA analysis. Analytica Chimica Acta, 2019, 1045, 132-140.	5.4	20
121	Allelic discrimination between circulating tumor DNA fragments enabled by a multiplex-qPCR assay containing DNA-enriched magnetic ionic liquids. Analytica Chimica Acta, 2020, 1124, 184-193.	5.4	20
122	Magnetic Ionic Liquids as Solvents for RNA Extraction and Preservation. ACS Omega, 2020, 5, 11151-11159.	3.5	20
123	Sequence-specific preconcentration of a mutation prone KRAS fragment from plasma using ion-tagged oligonucleotides coupled to qPCR compatible magnetic ionic liquid solvents. Analytica Chimica Acta, 2019, 1068, 1-10.	5.4	19
124	Simultaneous cell lysis and DNA extraction from whole blood using magnetic ionic liquids. Analytical and Bioanalytical Chemistry, 2020, 412, 8039-8049.	3.7	19
125	High-throughput approach for the in situ generation of magnetic ionic liquids in parallel-dispersive droplet extraction of organic micropollutants in aqueous environmental samples. Talanta, 2021, 223, 121759.	5.5	19
126	Investigating the Variation in Solvation Interactions of Choline Chloride-Based Deep Eutectic Solvents Formed Using Different Hydrogen Bond Donors. ACS Sustainable Chemistry and Engineering, 2021, 9, 11970-11980.	6.7	19

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127	Vacuum-assisted sorbent extraction: An analytical methodology for the determination of ultraviolet filters in environmental samples. Talanta, 2020, 208, 120390.	5.5	18
128	Determination of the solubilising character of 2-methoxyethyl-(dimethyl)ethylammoniumtris(pentafluoroethyl)trifluorophosphate based on the Abraham solvation parameter model. Physics and Chemistry of Liquids, 2016, 54, 110-126.	1.2	17
129	Rapid analysis of ultraviolet filters using dispersive liquidâ€“liquid microextraction coupled to headspace gas chromatography and mass spectrometry. Journal of Separation Science, 2018, 41, 3081-3088.	2.5	17
130	Maximizing Ion-Tagged Oligonucleotide Loading on Magnetic Ionic Liquid Supports for the Sequence-Specific Extraction of Nucleic Acids. Analytical Chemistry, 2019, 91, 5945-5952.	6.5	17
131	Essential Requirements of Biocompatible Cellulose Solvents. ACS Sustainable Chemistry and Engineering, 2021, 9, 11825-11836.	6.7	17
132	Determination of compounds with varied volatilities from aqueous samples using a polymeric ionic liquid sorbent coating by direct immersion-headspace solid-phase microextraction. Analytical Methods, 2016, 8, 4108-4118.	2.7	16
133	Evaluating the solvation properties of metal-containing ionic liquids using the solvation parameter model. Analytical and Bioanalytical Chemistry, 2018, 410, 4597-4606.	3.7	16
134	Analysis of bacterial plasmid DNA by solid-phase microextraction. Analytical Methods, 2015, 7, 7202-7207.	2.7	15
135	Investigating the effect of ligand and cation on the properties of metal fluorinated acetylacetonate based magnetic ionic liquids. New Journal of Chemistry, 2019, 43, 11334-11341.	2.8	15
136	Analysis of Echinacea flower volatile constituents by HS-SPME-GC/MS using laboratory-prepared and commercial SPME fibers. Journal of Essential Oil Research, 2019, 31, 91-98.	2.7	15
137	Characterizing Olefin Selectivity and Stability of Silver Salts in Ionic Liquids Using Inverse Gas Chromatography. ACS Omega, 2020, 5, 31362-31369.	3.5	15
138	Tunable Silver-Containing Stationary Phases for Multidimensional Gas Chromatography. Analytical Chemistry, 2019, 91, 4969-4974.	6.5	14
139	Elucidating the Role of Hydrogen Bond Donor and Acceptor on Solvation in Deep Eutectic Solvents Formed by Ammonium/Phosphonium Salts and Carboxylic Acids. ACS Sustainable Chemistry and Engineering, 2020, 8, 18286-18296.	6.7	14
140	Synthesis and characterization of the physicochemical and magnetic properties for perfluoroalkyl ester and Fe(<scp>iii</scp>) carboxylate-based hydrophobic magnetic ionic liquids. RSC Advances, 2016, 6, 11109-11117.	3.6	13
141	Coupling oligonucleotides possessing a poly-cytosine tag with magnetic ionic liquids for sequence-specific DNA analysis. Chemical Communications, 2018, 54, 10284-10287.	4.1	13
142	Selective hybridization and capture of KRAS DNA from plasma and blood using ion-tagged oligonucleotide probes coupled to magnetic ionic liquids. Analytica Chimica Acta, 2020, 1094, 1-10.	5.4	13
143	Can the selectivity of phosphonium based ionic liquids be exploited as stationary phase for routine gas chromatography? A case study: The use of trihexyl(tetradecyl) phosphonium chloride in the flavor, fragrance and natural product fields. Journal of Chromatography A, 2020, 1619, 460969.	3.7	13
144	Characterizing the Solvation Characteristics of Deep Eutectic Solvents Composed of Active Pharmaceutical Ingredients as a Hydrogen Bond Donor and/or Acceptor. ACS Sustainable Chemistry and Engineering, 2022, 10, 3066-3078.	6.7	13

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145	Modulating solvation interactions of deep eutectic solvents formed by ammonium salts and carboxylic acids through varying the molar ratio of hydrogen bond donor and acceptor. Journal of Chromatography A, 2021, 1643, 462011.	3.7	12
146	Using a Chromatographic Pseudophase Model To Elucidate the Mechanism of Olefin Separation by Silver(I) Ions in Ionic Liquids. Analytical Chemistry, 2021, 93, 13284-13292.	6.5	12
147	Thin Film Microextraction Enables Rapid Isolation and Recovery of DNA for Downstream Amplification Assays. Analytical Chemistry, 2022, 94, 3677-3684.	6.5	12
148	Characterisation of room temperature ionic liquid chromatographic stationary phases by combining experimental retention factor and partition coefficient data into a single model. Physics and Chemistry of Liquids, 2009, 47, 74-83.	1.2	10
149	Arabidopsis thaliana ITS sequence-specific DNA extraction by ion-tagged oligonucleotides coupled with a magnetic ionic liquid. Analytical and Bioanalytical Chemistry, 2019, 411, 6583-6590.	3.7	10
150	Crosslinked zwitterionic polymeric ionic liquid-functionalized nitinol wires for fiber-in-tube solid-phase microextraction and UHPLC-MS/MS as an amyloid beta peptide binding protein assay in biological fluids. Analytica Chimica Acta, 2022, 1193, 339394.	5.4	10
151	Investigating the effect of systematically modifying the molar ratio of hydrogen bond donor and acceptor on solvation characteristics of deep eutectic solvents formed using choline chloride salt and polyalcohols. Journal of Chromatography A, 2022, 1667, 462871.	3.7	10
152	Simple and efficient isolation of plant genomic DNA using magnetic ionic liquids. Plant Methods, 2022, 18, 37.	4.3	10
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