Emily F. Hilder

List of Publications by Year in Descending Order

129 papers	4,304 citations	35 h-index	58 g-index
134 ext. papers	4,567 ext. citations	5.4 avg, IF	5.5 L-index

#	Paper	IF	Citations
129	Styrene-based polymerised high internal phase emulsions using monomers in the internal phase as co-surfactants for improved liquid chromatography.. *RSC Advances*, **2022**, 12, 9773-9785	3.7	
128	Polymeric stationary phases for size exclusion chromatography: A review. *Analytica Chimica Acta*, **2021**, 1151, 338244	6.6	6
127	Synthesis of environmentally benign ultra-small copper nanoclusters-halloysite composites and their catalytic performance on contrasting azo dyes. *Applied Surface Science*, **2021**, 546, 149122	6.7	16
126	Utilizing RAFT Polymerization for the Preparation of Well-Defined Bicontinuous Porous Polymeric Supports: Application to Liquid Chromatography Separation of Biomolecules. *ACS Applied Materials & Interfaces*, **2021**, 13, 32075-32083	9.5	3
125	Non-ionic Surface Active Agents as Additives toward a Universal Porogen System for Porous Polymer Monoliths. *Analytical Chemistry*, **2021**, 93, 2802-2810	7.8	4
124	Effect of ethoxylated sorbitan ester surfactants on the chromatographic efficiency of poly(ethylene glycol)-based monoliths. *Journal of Chromatography A*, **2021**, 1654, 462464	4.5	2
123	Biocompatible functionalisation of nanoclays for improved environmental remediation. *Chemical Society Reviews*, **2019**, 48, 3740-3770	58.5	68
122	Effect of shearing stress on the radial heterogeneity and chromatographic performance of styrene-based polymerised high internal phase emulsions prepared in capillary format.. *RSC Advances*, **2019**, 9, 7301-7313	3.7	3
121	Understanding the interaction of gold and silver nanoparticles with natural organic matter using affinity capillary electrophoresis. *Environmental Science: Nano*, **2019**, 6, 1351-1362	7.1	5
120	Using natural deep eutectic solvents for the extraction of metabolites in Byrsonima intermedia leaves. *Journal of Separation Science*, **2019**, 42, 591-597	3.4	16
119	Preconcentration by solvent removal: techniques and applications. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 1715-1727	4.4	9
118	On-line solvent exchange system: Automation from extraction to analysis. *Analytica Chimica Acta*, **2019**, 1047, 231-237	6.6	5
117	Natural deep eutectic solvents as the major mobile phase components in high-performance liquid chromatography-searching for alternatives to organic solvents. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 3705-3713	4.4	28
116	Precise, accurate and user-independent blood collection system for dried blood spot sample preparation. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 3315-3323	4.4	32
115	Preparation of highly interconnected hydrophilic polymers from emulsion templates with improved mechanical properties. *European Polymer Journal*, **2018**, 102, 56-67	5.2	12
114	Robust open cellular porous polymer monoliths made from cured colloidal gels of latex particles. *Green Chemistry*, **2018**, 20, 2499-2511	10	3
113	Evaporative membrane modulation for comprehensive two-dimensional liquid chromatography. *Analytica Chimica Acta*, **2018**, 1000, 303-309	6.6	16

112	Characterization of oligo(acrylic acid)s and their block co-oligomers. *Analytica Chimica Acta*, **2018**, 1032, 163-177	6.6	2
111	Morphology control in polymerised high internal phase emulsion templated via macro-RAFT agent composition: visualizing surface chemistry. *Polymer Chemistry*, **2018**, 9, 213-220	4.9	5
110	The application of graphene-based materials as chromatographic stationary phases. *TrAC - Trends in Analytical Chemistry*, **2018**, 98, 149-160	14.6	49
109	Review: Synthetic scaffolds to control the biochemical, mechanical, and geometrical environment of stem cell-derived brain organoids. *APL Bioengineering*, **2018**, 2, 041501	6.6	24
108	Poly(ethylene glycol) functionalization of monolithic poly(divinyl benzene) for improved miniaturized solid phase extraction of protein-rich samples. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 2189-2199	4.4	13
107	Monolithic High-Performance Liquid Chromatography Columns **2017**, 1-37		2
106	Longitudinal On-Column Thermal Modulation for Comprehensive Two-Dimensional Liquid Chromatography. *Analytical Chemistry*, **2017**, 89, 1123-1130	7.8	16
105	UiO-66@SiO core-shell microparticles as stationary phases for the separation of small organic molecules. *Analyst, The*, **2017**, 142, 517-524	5	34
104	Membrane assisted and temperature controlled on-line evaporative concentration for microfluidics. *Journal of Chromatography A*, **2017**, 1486, 110-116	4.5	6
103	PEO-based brush-type amphiphilic macro-RAFT agents and their assembled polyHIPE monolithic structures for applications in separation science. *Scientific Reports*, **2017**, 7, 7847	4.9	28
102	Tryptophan metabolism, its relation to inflammation and stress markers and association with psychological and cognitive functioning: Tasmanian Chronic Kidney Disease pilot study. *BMC Nephrology*, **2016**, 17, 171	2.7	48
101	Flow-dependent separation selectivity for organic molecules on metal-organic frameworks containing adsorbents. *Chemical Communications*, **2016**, 52, 5301-4	5.8	12
100	Preparation of inverse polymerized high internal phase emulsions using an amphiphilic macro-RAFT agent as sole stabilizer. *Polymer Chemistry*, **2016**, 7, 1803-1812	4.9	30
99	Discovery of Biomarkers for Tasmanian Devil Cancer (DFTD) by Metabolic Profiling of Serum. *Journal of Proteome Research*, **2016**, 15, 3827-3840	5.6	11
98	On Track for a Truly Green Propolis Fingerprinting Propolis Samples from Seven Countries by Means of a Fully Green Approach. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 7110-7117	8.3	8
97	Acetone as a greener alternative to acetonitrile in liquid chromatographic fingerprinting. *Journal of Separation Science*, **2015**, 38, 1458-65	3.4	31
96	Simple and robust monitoring of ethanol fermentations by capillary electrophoresis. *Biotechnology and Applied Biochemistry*, **2015**, 62, 329-42	2.8	14
95	The Retention Characteristics of a Novel Phenyl Analytical Scale First Generation Monolith. *Journal of Liquid Chromatography and Related Technologies*, **2015**, 38, 781-788	1.3	3

94	Characterization of large surface area polymer monoliths and their utility for rapid, selective solid phase extraction for improved sample clean up. *Journal of Chromatography A*, **2015**, 1410, 9-18	4.5	21
93	Micellar electrokinetic chromatography of organic and peroxide-based explosives. *Analytica Chimica Acta*, **2015**, 876, 91-7	6.6	4
92	Highly ordered monolithic structures by directional freezing and UV-initiated cryopolymerisation. Evaluation as stationary phases in high performance liquid chromatography. *RSC Advances*, **2015**, 5, 71131-71138	3.7	25
91	Green chromatographic fingerprinting: an environmentally friendly approach for the development of separation methods for fingerprinting complex matrices. *Journal of Separation Science*, **2014**, 37, 37-44	3.4	25
90	The Development of the In Situ Modification of 1st Generation Analytical Scale Silica Monoliths. *Chromatographia*, **2014**, 77, 663-671	2.1	12
89	Assessment of the complementarity of temperature and flow-rate for response normalisation of aerosol-based detectors. *Journal of Chromatography A*, **2014**, 1356, 180-7	4.5	10
88	Semiautomated pH gradient ion-exchange chromatography of monoclonal antibody charge variants. *Analytical Chemistry*, **2014**, 86, 9794-9	7.8	17
87	Characterization of polymer monoliths containing embedded nanoparticles by scanning transmission X-ray microscopy (STXM). *Analytical Chemistry*, **2014**, 86, 2876-81	7.8	15
86	A trade off between separation, detection and sustainability in liquid chromatographic fingerprinting. *Journal of Chromatography A*, **2014**, 1354, 34-42	4.5	12
85	Poly(ethylene glycol)-based monolithic capillary columns for hydrophobic interaction chromatography of immunoglobulin G subclasses and variants. *Journal of Separation Science*, **2013**, 36, 2782-92	3.4	21
84	Monolithic cryopolymers with embedded nanoparticles. II. Capillary liquid chromatography of proteins using charged embedded nanoparticles. *Journal of Chromatography A*, **2013**, 1311, 121-6	4.5	17
83	On-line simultaneous and rapid separation of anions and cations from a single sample using dual-capillary sequential injection-capillary electrophoresis. *Analytica Chimica Acta*, **2013**, 781, 80-7	6.6	53
82	Charge heterogeneity profiling of monoclonal antibodies using low ionic strength ion-exchange chromatography and well-controlled pH gradients on monolithic columns. *Journal of Chromatography A*, **2013**, 1317, 148-54	4.5	45
81	Valve based on novel hydrogels: From synthesis to application. *Sensors and Actuators B: Chemical*, **2013**, 188, 176-184	8.5	8
80	Monolithic cryopolymers with embedded nanoparticles. I. Capillary liquid chromatography of proteins using neutral embedded nanoparticles. *Journal of Chromatography A*, **2013**, 1273, 26-33	4.5	31
79	Epoxy-based monoliths for capillary liquid chromatography of small and large molecules. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 2233-44	4.4	17
78	Simple and robust determination of monosaccharides in plant fibers in complex mixtures by capillary electrophoresis and high performance liquid chromatography. *Journal of Chromatography A*, **2013**, 1291, 179-86	4.5	43
77	Applications of resistive heating in gas chromatography: a review. *Analytica Chimica Acta*, **2013**, 803, 2-14	6.6	23

76	Impact of mobile phase composition on the performance of porous polymeric monoliths in the elution of small molecules. *Journal of Chromatography A*, **2012**, 1263, 108-12	4.5	22
75	Lab-on-a-Chip device with laser-patterned polymer electrodes for high voltage application and contactless conductivity detection. *Chemical Communications*, **2012**, 48, 9287-9	5.8	20
74	Review of recent advances in the preparation of organic polymer monoliths for liquid chromatography of large molecules. *Analytica Chimica Acta*, **2012**, 738, 1-12	6.6	110
73	A simplified approach to direct SPE-MS. *Journal of Separation Science*, **2012**, 35, 2399-406	3.4	25
72	Comparison of ZIC-HILIC and graphitized carbon-based analytical approaches combined with exoglycosidase digestions for analysis of glycans from monoclonal antibodies. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2012**, 911, 93-104	3.2	31
71	Temperature pulsing for controlling chromatographic resolution in capillary liquid chromatography. *Analytical Chemistry*, **2012**, 84, 3362-8	7.8	17
70	Recent developments and future possibilities for polymer monoliths in separation science. *Analyst, The*, **2012**, 137, 5179-89	5	67
69	Identification of inorganic improvised explosive devices using sequential injection capillary electrophoresis and contactless conductivity detection. *Analytical Chemistry*, **2011**, 83, 9068-75	7.8	57
68	Monolithic phases for ion chromatography. *Annual Review of Analytical Chemistry*, **2011**, 4, 197-226	12.5	28
67	Dried Blood Spot Sampling - A New Approach for Whole Blood Analysis. *Australian Journal of Chemistry*, **2011**, 64, 843	1.2	2
66	Zwitterionic-type hydrophilic interaction nano-liquid chromatography of complex and high mannose glycans coupled with electrospray ionisation high resolution time of flight mass spectrometry. *Journal of Chromatography A*, **2011**, 1218, 6419-25	4.5	12
65	Kinetic optimisation of open-tubular liquid-chromatography capillaries coated with thick porous layers for increased loadability. *Journal of Chromatography A*, **2011**, 1218, 8388-93	4.5	42
64	Coupled reversed-phase and ion chromatographic system for the simultaneous identification of inorganic and organic explosives. *Journal of Chromatography A*, **2011**, 1218, 3007-12	4.5	19
63	Kinetic performance optimisation for liquid chromatography: principles and practice. *Journal of Separation Science*, **2011**, 34, 877-87	3.4	24
62	Online sample pre-concentration via dynamic pH junction in capillary and microchip electrophoresis. *Journal of Separation Science*, **2011**, 34, 2800-21	3.4	51
61	Retention behavior and selectivity of a latex nanoparticle pseudostationary phase for electrokinetic chromatography. *Electrophoresis*, **2011**, 32, 588-94	3.6	15
60	Glycan profiling of monoclonal antibodies using zwitterionic-type hydrophilic interaction chromatography coupled with electrospray ionization mass spectrometry detection. *Analytical Biochemistry*, **2011**, 408, 235-41	3.1	39
59	Manufacturing and application of a fully polymeric electrophoresis chip with integrated polyaniline electrodes. *Lab on A Chip*, **2010**, 10, 1869-72	7.2	14

58	Molecular Weight and Tacticity of Oligoacrylates by Capillary Electrophoresis - Mass Spectrometry. *Australian Journal of Chemistry*, **2010**, 63, 1219	1.2	17
57	Electrokinetic chromatography and mass spectrometric detection using latex nanoparticles as a pseudostationary phase. *Analytical Chemistry*, **2010**, 82, 4046-54	7.8	33
56	Photolithographic patterning of conducting polyaniline films via flash welding. *Synthetic Metals*, **2010**, 160, 1405-1409	3.6	13
55	Capillary electrophoretic separation of mono- and di-saccharides with dynamic pH junction and implementation in microchips. *Analyst, The*, **2010**, 135, 1970-8	5	16
54	LED controlled flow photolysis for concentration gradients in microfluidic systems. *Chemical Communications*, **2010**, 46, 3342-4	5.8	2
53	Development of a novel fluorescent tag O-2-[aminoethyl]fluorescein for the electrophoretic separation of oligosaccharides. *Analytica Chimica Acta*, **2010**, 662, 206-13	6.6	11
52	Cyano bonded silica monolith--development of an in situ modification method for analytical scale columns. *Journal of Chromatography A*, **2010**, 1217, 6085-91	4.5	18
51	High temperature liquid chromatography of intact proteins using organic polymer monoliths and alternative solvent systems. *Journal of Chromatography A*, **2010**, 1217, 3519-24	4.5	26
50	Kinetic performance appraisal of poly(styrene-co-divinylbenzene) monolithic high-performance liquid chromatography columns for biomolecule analysis. *Journal of Chromatography A*, **2010**, 1217, 3765-9	4.5	15
49	Probing the kinetic performance limits for ion chromatography. II. Gradient conditions for small ions. *Journal of Chromatography A*, **2010**, 1217, 5063-8	4.5	14
48	Probing the kinetic performance limits for ion chromatography. I. Isocratic conditions for small ions. *Journal of Chromatography A*, **2010**, 1217, 5057-62	4.5	8
47	Characterization of monoclonal antibodies using polymeric cation exchange monoliths in combination with salt and pH gradients. *Journal of Separation Science*, **2009**, 32, 2668-73	3.4	14
46	Recent advances in polymer monoliths for ion-exchange chromatography. *Analytical and Bioanalytical Chemistry*, **2009**, 394, 71-84	4.4	89
45	Fast ion chromatography using short anion exchange columns. *Journal of Chromatography A*, **2009**, 1216, 8512-7	4.5	10
44	Separation and sample pre-treatment in bioanalysis using monolithic phases: A review. *Analytica Chimica Acta*, **2009**, 652, 22-31	6.6	91
43	High temperature liquid chromatography with monolithic capillary columns and pure water eluent. *Analyst, The*, **2009**, 134, 440-2	5	24
42	Porous polymer monoliths for extraction: diverse applications and platforms. *Journal of Separation Science*, **2008**, 31, 1881-906	3.4	89
41	Separation of inorganic anions on a high capacity porous polymeric monolithic column and application to direct determination of anions in seawater. *Journal of Separation Science*, **2008**, 31, 2598-604	3.4	26

40	Indirect photometric detection of anions in nonaqueous capillary electrophoresis employing Orange G as probe and a light-emitting diode-based detector. *Electrophoresis*, **2008**, 29, 3032-7	3.6	13
39	Identification of inorganic ions in post-blast explosive residues using portable CE instrumentation and capacitively coupled contactless conductivity detection. *Electrophoresis*, **2008**, 29, 4593-602	3.6	83
38	A simple capillary electrophoresis method for the rapid separation and determination of intact low molecular weight and unfractionated heparins. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 46, 30-5	3.5	60
37	Utilisation of pH stacking in conjunction with a highly absorbing chromophore, 5-aminofluorescein, to improve the sensitivity of capillary electrophoresis for carbohydrate analysis. *Journal of Chromatography A*, **2008**, 1200, 84-91	4.5	35
36	Packing procedures for high efficiency, short ion-exchange columns for rapid separation of inorganic anions. *Journal of Chromatography A*, **2008**, 1208, 95-100	4.5	19
35	Techniques for the separation of ionic and ionogenic species. Foreword. *Journal of Chromatography A*, **2008**, 1213, 1-2	4.5	
34	Identification of homemade inorganic explosives by ion chromatographic analysis of post-blast residues. *Journal of Chromatography A*, **2008**, 1182, 205-14	4.5	71
33	Controlling the surface chemistry and chromatographic properties of methacrylate-ester-based monolithic capillary columns via photografting. *Journal of Separation Science*, **2007**, 30, 407-13	3.4	76
32	Identification of inorganic improvised explosive devices by analysis of postblast residues using portable capillary electrophoresis instrumentation and indirect photometric detection with a light-emitting diode. *Analytical Chemistry*, **2007**, 79, 7005-13	7.8	113
31	Sensitive determination of carbohydrates labelled with p-nitroaniline by capillary electrophoresis with photometric detection using a 406 nm light-emitting diode. *Electrophoresis*, **2006**, 27, 4039-46	3.6	18
30	Monolithic stationary phases for fast ion chromatography and capillary electrochromatography of inorganic ions. *Journal of Separation Science*, **2006**, 29, 1705-19	3.4	51
29	High-Resolution Separation of Oligo(acrylic acid) by Capillary Zone Electrophoresis. *Macromolecular Rapid Communications*, **2006**, 27, 42-46	4.8	22
28	Boronate functionalised polymer monoliths for microscale affinity chromatography. *Analyst, The*, **2006**, 131, 1094-6	5	75
27	Towards high capacity latex-coated porous polymer monoliths as ion-exchange stationary phases. *Analyst, The*, **2006**, 131, 215-21	5	78
26	Separation of antidepressants by capillary electrophoresis with in-line solid-phase extraction using a novel monolithic adsorbent. *Analytica Chimica Acta*, **2006**, 556, 104-11	6.6	66
25	Preparation and characterisation of anion-exchange latex-coated silica monoliths for capillary electrochromatography. *Journal of Chromatography A*, **2006**, 1109, 10-8	4.5	70
24	Macroporous monolith supports for continuous flow capillary microreactors. *Tetrahedron Letters*, **2006**, 47, 9321-9324	2	48
23	Poly(tetrafluoroethylene) separation capillaries for capillary electrophoresis. Properties and applications. *Journal of Chromatography A*, **2004**, 1039, 193-9	4.5	18

22	Development and application of polymeric monolithic stationary phases for capillary electrochromatography. *Journal of Chromatography A*, **2004**, 1044, 3-22	4.5	203
21	Porous polymer monolith for surface-enhanced laser desorption/ionization time-of-flight mass spectrometry of small molecules. *Rapid Communications in Mass Spectrometry*, **2004**, 18, 1504-12	2.2	49
20	Shielded stationary phases based on porous polymer monoliths for the capillary electrochromatography of highly basic biomolecules. *Analytical Chemistry*, **2004**, 76, 3887-92	7.8	64
19	Latex-functionalized monolithic columns for the separation of carbohydrates by micro anion-exchange chromatography. *Journal of Chromatography A*, **2004**, 1053, 101-106	4.5	94
18	Latex-functionalized monolithic columns for the separation of carbohydrates by micro anion-exchange chromatography **2004**, 1053, 101-101		22
17	Fabrication of porous polymer monoliths covalently attached to the walls of channels in plastic microdevices. *Electrophoresis*, **2003**, 24, 3689-93	3.6	125
16	Photografting and the Control of Surface Chemistry in Three-Dimensional Porous Polymer Monoliths. *Macromolecules*, **2003**, 36, 1677-1684	5.5	229
15	Comparison of aqueous and nonaqueous carrier electrolytes for the separation of penicillin V and related substances by capillary electrophoresis with UV and mass spectrometric detection. *Electrophoresis*, **2002**, 23, 414-20	3.6	31
14	Development and optimization of an analytical method for the determination of UV filters in suntan lotions based on microemulsion electrokinetic chromatography. *Electrophoresis*, **2002**, 23, 2424-9	3.6	31
13	Polymeric monolithic stationary phases for capillary electrochromatography. *Electrophoresis*, **2002**, 23, 3934-53	3.6	110
12	Use of ionic polymers as stationary and pseudo-stationary phases in the separation of ions by capillary electrophoresis and capillary electrochromatography. *Journal of Chromatography A*, **2002**, 942, 11-32	4.5	30
11	Determination of inorganic anions by capillary electrochromatography. *TrAC - Trends in Analytical Chemistry*, **2001**, 20, 355-364	14.6	19
10	Modelling of migration behaviour of inorganic anions in ion-exchange capillary electrochromatography. *Electrophoresis*, **2001**, 22, 503-10	3.6	11
9	Anion-exchange capillary electrochromatography with indirect UV and direct contactless conductivity detection. *Electrophoresis*, **2001**, 22, 1273-81	3.6	57
8	Separation of hydrophobic polymer additives by microemulsion electrokinetic chromatography. *Journal of Chromatography A*, **2001**, 922, 293-302	4.5	47
7	Pressurized-flow anion-exchange capillary electrochromatography using a polymeric ion-exchange stationary phase. *Journal of Chromatography A*, **2000**, 890, 337-45	4.5	34
6	Investigations on the behaviour of acidic, basic and neutral compounds in capillary electrochromatography on a mixed-mode stationary phase. *Journal of Chromatography A*, **2000**, 888, 267-74	4.5	26
5	Electro-osmotic and pressure-driven flow properties of frits for packed column capillary electrochromatography prepared from functionalised and bare silica packings. *Analyst, The*, **2000**, 125, 1-4	5	27

4	Mixed-mode capillary electrochromatographic separation of anionic analytes. *Analytical Communications*, **1999**, 36, 299-303		31
3	Separation of dithiocarbamate metal complexes by micellar electrokinetic chromatography. *Analyst, The*, **1998**, 123, 2865-2870	5	23
2	Separation of Metal Bis(2-hydroxyethyl)dithiocarbamate Complexes byMicellar Electrokinetic Capillary Chromatography. *Analytical Communications*, **1997**, 34, 63-65		16
1	Separation of metal ions and metal-containing species by micellar electrokinetic capillary chromatography, including utilisation of metal ions in separations of other species. *Journal of Chromatography A*, **1997**, 780, 329-341	4.5	34