

Emily F. Hilder

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129
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134
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4,567
ext. citations

5.4
avg, IF

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L-index

#	Paper	IF	Citations
129	Photografting and the Control of Surface Chemistry in Three-Dimensional Porous Polymer Monoliths. <i>Macromolecules</i> , 2003 , 36, 1677-1684	5.5	229
128	Development and application of polymeric monolithic stationary phases for capillary electrochromatography. <i>Journal of Chromatography A</i> , 2004 , 1044, 3-22	4.5	203
127	Fabrication of porous polymer monoliths covalently attached to the walls of channels in plastic microdevices. <i>Electrophoresis</i> , 2003 , 24, 3689-93	3.6	125
126	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. <i>Analytical Chemistry</i> , 2007 , 79, 7005-13	7.8	113
125	Review of recent advances in the preparation of organic polymer monoliths for liquid chromatography of large molecules. <i>Analytica Chimica Acta</i> , 2012 , 738, 1-12	6.6	110
124	Polymeric monolithic stationary phases for capillary electrochromatography. <i>Electrophoresis</i> , 2002 , 23, 3934-53	3.6	110
123	Latex-functionalized monolithic columns for the separation of carbohydrates by micro anion-exchange chromatography. <i>Journal of Chromatography A</i> , 2004 , 1053, 101-106	4.5	94
122	Separation and sample pre-treatment in bioanalysis using monolithic phases: A review. <i>Analytica Chimica Acta</i> , 2009 , 652, 22-31	6.6	91
121	Recent advances in polymer monoliths for ion-exchange chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 71-84	4.4	89
120	Porous polymer monoliths for extraction: diverse applications and platforms. <i>Journal of Separation Science</i> , 2008 , 31, 1881-906	3.4	89
119	Identification of inorganic ions in post-blast explosive residues using portable CE instrumentation and capacitively coupled contactless conductivity detection. <i>Electrophoresis</i> , 2008 , 29, 4593-602	3.6	83
118	Towards high capacity latex-coated porous polymer monoliths as ion-exchange stationary phases. <i>Analyst, The</i> , 2006 , 131, 215-21	5	78
117	Controlling the surface chemistry and chromatographic properties of methacrylate-ester-based monolithic capillary columns via photografting. <i>Journal of Separation Science</i> , 2007 , 30, 407-13	3.4	76
116	Boronate functionalised polymer monoliths for microscale affinity chromatography. <i>Analyst, The</i> , 2006 , 131, 1094-6	5	75
115	Identification of homemade inorganic explosives by ion chromatographic analysis of post-blast residues. <i>Journal of Chromatography A</i> , 2008 , 1182, 205-14	4.5	71
114	Preparation and characterisation of anion-exchange latex-coated silica monoliths for capillary electrochromatography. <i>Journal of Chromatography A</i> , 2006 , 1109, 10-8	4.5	70
113	Biocompatible functionalisation of nanoclays for improved environmental remediation. <i>Chemical Society Reviews</i> , 2019 , 48, 3740-3770	58.5	68

112	Recent developments and future possibilities for polymer monoliths in separation science. <i>Analyst, The</i> , 2012 , 137, 5179-89	5	67
111	Separation of antidepressants by capillary electrophoresis with in-line solid-phase extraction using a novel monolithic adsorbent. <i>Analytica Chimica Acta</i> , 2006 , 556, 104-11	6.6	66
110	Shielded stationary phases based on porous polymer monoliths for the capillary electrochromatography of highly basic biomolecules. <i>Analytical Chemistry</i> , 2004 , 76, 3887-92	7.8	64
109	A simple capillary electrophoresis method for the rapid separation and determination of intact low molecular weight and unfractionated heparins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 46, 30-5	3.5	60
108	Identification of inorganic improvised explosive devices using sequential injection capillary electrophoresis and contactless conductivity detection. <i>Analytical Chemistry</i> , 2011 , 83, 9068-75	7.8	57
107	Anion-exchange capillary electrochromatography with indirect UV and direct contactless conductivity detection. <i>Electrophoresis</i> , 2001 , 22, 1273-81	3.6	57
106	On-line simultaneous and rapid separation of anions and cations from a single sample using dual-capillary sequential injection-capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2013 , 781, 80-7	6.6	53
105	Online sample pre-concentration via dynamic pH junction in capillary and microchip electrophoresis. <i>Journal of Separation Science</i> , 2011 , 34, 2800-21	3.4	51
104	Monolithic stationary phases for fast ion chromatography and capillary electrochromatography of inorganic ions. <i>Journal of Separation Science</i> , 2006 , 29, 1705-19	3.4	51
103	Porous polymer monolith for surface-enhanced laser desorption/ionization time-of-flight mass spectrometry of small molecules. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 1504-12	2.2	49
102	The application of graphene-based materials as chromatographic stationary phases. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 98, 149-160	14.6	49
101	Tryptophan metabolism, its relation to inflammation and stress markers and association with psychological and cognitive functioning: Tasmanian Chronic Kidney Disease pilot study. <i>BMC Nephrology</i> , 2016 , 17, 171	2.7	48
100	Macroporous monolith supports for continuous flow capillary microreactors. <i>Tetrahedron Letters</i> , 2006 , 47, 9321-9324	2	48
99	Separation of hydrophobic polymer additives by microemulsion electrokinetic chromatography. <i>Journal of Chromatography A</i> , 2001 , 922, 293-302	4.5	47
98	Charge heterogeneity profiling of monoclonal antibodies using low ionic strength ion-exchange chromatography and well-controlled pH gradients on monolithic columns. <i>Journal of Chromatography A</i> , 2013 , 1317, 148-54	4.5	45
97	Simple and robust determination of monosaccharides in plant fibers in complex mixtures by capillary electrophoresis and high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2013 , 1291, 179-86	4.5	43
96	Kinetic optimisation of open-tubular liquid-chromatography capillaries coated with thick porous layers for increased loadability. <i>Journal of Chromatography A</i> , 2011 , 1218, 8388-93	4.5	42
95	Glycan profiling of monoclonal antibodies using zwitterionic-type hydrophilic interaction chromatography coupled with electrospray ionization mass spectrometry detection. <i>Analytical Biochemistry</i> , 2011 , 408, 235-41	3.1	39

94	Utilisation of pH stacking in conjunction with a highly absorbing chromophore, 5-aminofluorescein, to improve the sensitivity of capillary electrophoresis for carbohydrate analysis. <i>Journal of Chromatography A</i> , 2008 , 1200, 84-91	4.5	35
93	UiO-66@SiO core-shell microparticles as stationary phases for the separation of small organic molecules. <i>Analyst, The</i> , 2017 , 142, 517-524	5	34
92	Separation of metal ions and metal-containing species by micellar electrokinetic capillary chromatography, including utilisation of metal ions in separations of other species. <i>Journal of Chromatography A</i> , 1997 , 780, 329-341	4.5	34
91	Pressurized-flow anion-exchange capillary electrochromatography using a polymeric ion-exchange stationary phase. <i>Journal of Chromatography A</i> , 2000 , 890, 337-45	4.5	34
90	Electrokinetic chromatography and mass spectrometric detection using latex nanoparticles as a pseudostationary phase. <i>Analytical Chemistry</i> , 2010 , 82, 4046-54	7.8	33
89	Precise, accurate and user-independent blood collection system for dried blood spot sample preparation. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 3315-3323	4.4	32
88	Acetone as a greener alternative to acetonitrile in liquid chromatographic fingerprinting. <i>Journal of Separation Science</i> , 2015 , 38, 1458-65	3.4	31
87	Monolithic cryopolymers with embedded nanoparticles. I. Capillary liquid chromatography of proteins using neutral embedded nanoparticles. <i>Journal of Chromatography A</i> , 2013 , 1273, 26-33	4.5	31
86	Comparison of ZIC-HILIC and graphitized carbon-based analytical approaches combined with exoglycosidase digestions for analysis of glycans from monoclonal antibodies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 911, 93-104	3.2	31
85	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. <i>Electrophoresis</i> , 2002 , 23, 414-20	3.6	31
84	Development and optimization of an analytical method for the determination of UV filters in suntan lotions based on microemulsion electrokinetic chromatography. <i>Electrophoresis</i> , 2002 , 23, 2424-9 ^{3.6}		31
83	Mixed-mode capillary electrochromatographic separation of anionic analytes. <i>Analytical Communications</i> , 1999 , 36, 299-303		31
82	Preparation of inverse polymerized high internal phase emulsions using an amphiphilic macro-RAFT agent as sole stabilizer. <i>Polymer Chemistry</i> , 2016 , 7, 1803-1812	4.9	30
81	Use of ionic polymers as stationary and pseudo-stationary phases in the separation of ions by capillary electrophoresis and capillary electrochromatography. <i>Journal of Chromatography A</i> , 2002 , 942, 11-32	4.5	30
80	Natural deep eutectic solvents as the major mobile phase components in high-performance liquid chromatography-searching for alternatives to organic solvents. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 3705-3713	4.4	28
79	PEO-based brush-type amphiphilic macro-RAFT agents and their assembled polyHIPE monolithic structures for applications in separation science. <i>Scientific Reports</i> , 2017 , 7, 7847	4.9	28
78	Monolithic phases for ion chromatography. <i>Annual Review of Analytical Chemistry</i> , 2011 , 4, 197-226	12.5	28
77	Electro-osmotic and pressure-driven flow properties of frits for packed column capillary electrochromatography prepared from functionalised and bare silica packings. <i>Analyst, The</i> , 2000 , 125, 1-4	5	27

76	High temperature liquid chromatography of intact proteins using organic polymer monoliths and alternative solvent systems. <i>Journal of Chromatography A</i> , 2010 , 1217, 3519-24	4.5	26
75	Separation of inorganic anions on a high capacity porous polymeric monolithic column and application to direct determination of anions in seawater. <i>Journal of Separation Science</i> , 2008 , 31, 2598-604	3.4	26
74	Investigations on the behaviour of acidic, basic and neutral compounds in capillary electrochromatography on a mixed-mode stationary phase. <i>Journal of Chromatography A</i> , 2000 , 888, 267-74	4.5	26
73	Highly ordered monolithic structures by directional freezing and UV-initiated cryopolymerisation. Evaluation as stationary phases in high performance liquid chromatography. <i>RSC Advances</i> , 2015 , 5, 71131-71135	3.7	25
72	Green chromatographic fingerprinting: an environmentally friendly approach for the development of separation methods for fingerprinting complex matrices. <i>Journal of Separation Science</i> , 2014 , 37, 37-44	4.4	25
71	A simplified approach to direct SPE-MS. <i>Journal of Separation Science</i> , 2012 , 35, 2399-406	3.4	25
70	Kinetic performance optimisation for liquid chromatography: principles and practice. <i>Journal of Separation Science</i> , 2011 , 34, 877-87	3.4	24
69	High temperature liquid chromatography with monolithic capillary columns and pure water eluent. <i>Analyst, The</i> , 2009 , 134, 440-2	5	24
68	Review: Synthetic scaffolds to control the biochemical, mechanical, and geometrical environment of stem cell-derived brain organoids. <i>APL Bioengineering</i> , 2018 , 2, 041501	6.6	24
67	Applications of resistive heating in gas chromatography: a review. <i>Analytica Chimica Acta</i> , 2013 , 803, 2-14	6.6	23
66	Separation of dithiocarbamate metal complexes by micellar electrokinetic chromatography. <i>Analyst, The</i> , 1998 , 123, 2865-2870	5	23
65	Impact of mobile phase composition on the performance of porous polymeric monoliths in the elution of small molecules. <i>Journal of Chromatography A</i> , 2012 , 1263, 108-12	4.5	22
64	High-Resolution Separation of Oligo(acrylic acid) by Capillary Zone Electrophoresis. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 42-46	4.8	22
63	Latex-functionalized monolithic columns for the separation of carbohydrates by micro anion-exchange chromatography 2004 , 1053, 101-101		22
62	Characterization of large surface area polymer monoliths and their utility for rapid, selective solid phase extraction for improved sample clean up. <i>Journal of Chromatography A</i> , 2015 , 1410, 9-18	4.5	21
61	Poly(ethylene glycol)-based monolithic capillary columns for hydrophobic interaction chromatography of immunoglobulin G subclasses and variants. <i>Journal of Separation Science</i> , 2013 , 36, 2782-92	3.4	21
60	Lab-on-a-Chip device with laser-patterned polymer electrodes for high voltage application and contactless conductivity detection. <i>Chemical Communications</i> , 2012 , 48, 9287-9	5.8	20
59	Coupled reversed-phase and ion chromatographic system for the simultaneous identification of inorganic and organic explosives. <i>Journal of Chromatography A</i> , 2011 , 1218, 3007-12	4.5	19

58	Packing procedures for high efficiency, short ion-exchange columns for rapid separation of inorganic anions. <i>Journal of Chromatography A</i> , 2008 , 1208, 95-100	4.5	19
57	Determination of inorganic anions by capillary electrochromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2001 , 20, 355-364	14.6	19
56	Cyano bonded silica monolith--development of an in situ modification method for analytical scale columns. <i>Journal of Chromatography A</i> , 2010 , 1217, 6085-91	4.5	18
55	Sensitive determination of carbohydrates labelled with p-nitroaniline by capillary electrophoresis with photometric detection using a 406 nm light-emitting diode. <i>Electrophoresis</i> , 2006 , 27, 4039-46	3.6	18
54	Poly(tetrafluoroethylene) separation capillaries for capillary electrophoresis. Properties and applications. <i>Journal of Chromatography A</i> , 2004 , 1039, 193-9	4.5	18
53	Semiautomated pH gradient ion-exchange chromatography of monoclonal antibody charge variants. <i>Analytical Chemistry</i> , 2014 , 86, 9794-9	7.8	17
52	Monolithic cryopolymers with embedded nanoparticles. II. Capillary liquid chromatography of proteins using charged embedded nanoparticles. <i>Journal of Chromatography A</i> , 2013 , 1311, 121-6	4.5	17
51	Epoxy-based monoliths for capillary liquid chromatography of small and large molecules. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 2233-44	4.4	17
50	Temperature pulsing for controlling chromatographic resolution in capillary liquid chromatography. <i>Analytical Chemistry</i> , 2012 , 84, 3362-8	7.8	17
49	Molecular Weight and Tacticity of Oligoacrylates by Capillary Electrophoresis - Mass Spectrometry. <i>Australian Journal of Chemistry</i> , 2010 , 63, 1219	1.2	17
48	Longitudinal On-Column Thermal Modulation for Comprehensive Two-Dimensional Liquid Chromatography. <i>Analytical Chemistry</i> , 2017 , 89, 1123-1130	7.8	16
47	Evaporative membrane modulation for comprehensive two-dimensional liquid chromatography. <i>Analytica Chimica Acta</i> , 2018 , 1000, 303-309	6.6	16
46	Capillary electrophoretic separation of mono- and di-saccharides with dynamic pH junction and implementation in microchips. <i>Analyst, The</i> , 2010 , 135, 1970-8	5	16
45	Separation of Metal Bis(2-hydroxyethyl)dithiocarbamate Complexes by Micellar Electrokinetic Capillary Chromatography. <i>Analytical Communications</i> , 1997 , 34, 63-65		16
44	Synthesis of environmentally benign ultra-small copper nanoclusters-halloysite composites and their catalytic performance on contrasting azo dyes. <i>Applied Surface Science</i> , 2021 , 546, 149122	6.7	16
43	Using natural deep eutectic solvents for the extraction of metabolites in <i>Byrsonima intermedia</i> leaves. <i>Journal of Separation Science</i> , 2019 , 42, 591-597	3.4	16
42	Characterization of polymer monoliths containing embedded nanoparticles by scanning transmission X-ray microscopy (STXM). <i>Analytical Chemistry</i> , 2014 , 86, 2876-81	7.8	15
41	Retention behavior and selectivity of a latex nanoparticle pseudostationary phase for electrokinetic chromatography. <i>Electrophoresis</i> , 2011 , 32, 588-94	3.6	15

40	Kinetic performance appraisal of poly(styrene-co-divinylbenzene) monolithic high-performance liquid chromatography columns for biomolecule analysis. <i>Journal of Chromatography A</i> , 2010 , 1217, 3765-3769	4.5	15
39	Simple and robust monitoring of ethanol fermentations by capillary electrophoresis. <i>Biotechnology and Applied Biochemistry</i> , 2015 , 62, 329-42	2.8	14
38	Manufacturing and application of a fully polymeric electrophoresis chip with integrated polyaniline electrodes. <i>Lab on A Chip</i> , 2010 , 10, 1869-72	7.2	14
37	Characterization of monoclonal antibodies using polymeric cation exchange monoliths in combination with salt and pH gradients. <i>Journal of Separation Science</i> , 2009 , 32, 2668-73	3.4	14
36	Probing the kinetic performance limits for ion chromatography. II. Gradient conditions for small ions. <i>Journal of Chromatography A</i> , 2010 , 1217, 5063-8	4.5	14
35	Poly(ethylene glycol) functionalization of monolithic poly(divinyl benzene) for improved miniaturized solid phase extraction of protein-rich samples. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 2189-2199	4.4	13
34	Photolithographic patterning of conducting polyaniline films via flash welding. <i>Synthetic Metals</i> , 2010 , 160, 1405-1409	3.6	13
33	Indirect photometric detection of anions in nonaqueous capillary electrophoresis employing Orange G as probe and a light-emitting diode-based detector. <i>Electrophoresis</i> , 2008 , 29, 3032-7	3.6	13
32	Preparation of highly interconnected hydrophilic polymers from emulsion templates with improved mechanical properties. <i>European Polymer Journal</i> , 2018 , 102, 56-67	5.2	12
31	Flow-dependent separation selectivity for organic molecules on metal-organic frameworks containing adsorbents. <i>Chemical Communications</i> , 2016 , 52, 5301-4	5.8	12
30	The Development of the In Situ Modification of 1st Generation Analytical Scale Silica Monoliths. <i>Chromatographia</i> , 2014 , 77, 663-671	2.1	12
29	A trade off between separation, detection and sustainability in liquid chromatographic fingerprinting. <i>Journal of Chromatography A</i> , 2014 , 1354, 34-42	4.5	12
28	Zwitterionic-type hydrophilic interaction nano-liquid chromatography of complex and high mannose glycans coupled with electrospray ionisation high resolution time of flight mass spectrometry. <i>Journal of Chromatography A</i> , 2011 , 1218, 6419-25	4.5	12
27	Development of a novel fluorescent tag O-2-[aminoethyl]fluorescein for the electrophoretic separation of oligosaccharides. <i>Analytica Chimica Acta</i> , 2010 , 662, 206-13	6.6	11
26	Modelling of migration behaviour of inorganic anions in ion-exchange capillary electrochromatography. <i>Electrophoresis</i> , 2001 , 22, 503-10	3.6	11
25	Discovery of Biomarkers for Tasmanian Devil Cancer (DFTD) by Metabolic Profiling of Serum. <i>Journal of Proteome Research</i> , 2016 , 15, 3827-3840	5.6	11
24	Assessment of the complementarity of temperature and flow-rate for response normalisation of aerosol-based detectors. <i>Journal of Chromatography A</i> , 2014 , 1356, 180-7	4.5	10
23	Fast ion chromatography using short anion exchange columns. <i>Journal of Chromatography A</i> , 2009 , 1216, 8512-7	4.5	10

22	Preconcentration by solvent removal: techniques and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1715-1727	4.4	9
21	Valve based on novel hydrogels: From synthesis to application. <i>Sensors and Actuators B: Chemical</i> , 2013 , 188, 176-184	8.5	8
20	Probing the kinetic performance limits for ion chromatography. I. Isocratic conditions for small ions. <i>Journal of Chromatography A</i> , 2010 , 1217, 5057-62	4.5	8
19	On Track for a Truly Green Propolis Fingerprinting Propolis Samples from Seven Countries by Means of a Fully Green Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 7110-7117	8.3	8
18	Membrane assisted and temperature controlled on-line evaporative concentration for microfluidics. <i>Journal of Chromatography A</i> , 2017 , 1486, 110-116	4.5	6
17	Polymeric stationary phases for size exclusion chromatography: A review. <i>Analytica Chimica Acta</i> , 2021 , 1151, 338244	6.6	6
16	Understanding the interaction of gold and silver nanoparticles with natural organic matter using affinity capillary electrophoresis. <i>Environmental Science: Nano</i> , 2019 , 6, 1351-1362	7.1	5
15	On-line solvent exchange system: Automation from extraction to analysis. <i>Analytica Chimica Acta</i> , 2019 , 1047, 231-237	6.6	5
14	Morphology control in polymerised high internal phase emulsion templated via macro-RAFT agent composition: visualizing surface chemistry. <i>Polymer Chemistry</i> , 2018 , 9, 213-220	4.9	5
13	Micellar electrokinetic chromatography of organic and peroxide-based explosives. <i>Analytica Chimica Acta</i> , 2015 , 876, 91-7	6.6	4
12	Non-ionic Surface Active Agents as Additives toward a Universal Porogen System for Porous Polymer Monoliths. <i>Analytical Chemistry</i> , 2021 , 93, 2802-2810	7.8	4
11	Effect of shearing stress on the radial heterogeneity and chromatographic performance of styrene-based polymerised high internal phase emulsions prepared in capillary format.. <i>RSC Advances</i> , 2019 , 9, 7301-7313	3.7	3
10	The Retention Characteristics of a Novel Phenyl Analytical Scale First Generation Monolith. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015 , 38, 781-788	1.3	3
9	Robust open cellular porous polymer monoliths made from cured colloidal gels of latex particles. <i>Green Chemistry</i> , 2018 , 20, 2499-2511	10	3
8	Utilizing RAFT Polymerization for the Preparation of Well-Defined Bicontinuous Porous Polymeric Supports: Application to Liquid Chromatography Separation of Biomolecules. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32075-32083	9.5	3
7	Monolithic High-Performance Liquid Chromatography Columns 2017 , 1-37		2
6	Characterization of oligo(acrylic acid)s and their block co-oligomers. <i>Analytica Chimica Acta</i> , 2018 , 1032, 163-177	6.6	2
5	Dried Blood Spot Sampling - A New Approach for Whole Blood Analysis. <i>Australian Journal of Chemistry</i> , 2011 , 64, 843	1.2	2

4	LED controlled flow photolysis for concentration gradients in microfluidic systems. <i>Chemical Communications</i> , 2010 , 46, 3342-4	5.8	2
3	Effect of ethoxylated sorbitan ester surfactants on the chromatographic efficiency of poly(ethylene glycol)-based monoliths. <i>Journal of Chromatography A</i> , 2021 , 1654, 462464	4.5	2
2	Techniques for the separation of ionic and ionogenic species. Foreword. <i>Journal of Chromatography A</i> , 2008 , 1213, 1-2	4.5	
1	Styrene-based polymerised high internal phase emulsions using monomers in the internal phase as co-surfactants for improved liquid chromatography.. <i>RSC Advances</i> , 2022 , 12, 9773-9785	3.7	