

# Gareth J Price

## List of Publications by Year in descending order

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139  
papers

5,227  
citations

109321

35  
h-index

95266

68  
g-index

142  
all docs

142  
docs citations

142  
times ranked

5047  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pH on the morphology of magnetite nanoparticles for adsorption of Cr(VI) ions from aqueous medium. <i>Journal of Dispersion Science and Technology</i> , 2023, 44, 1770-1777.	2.4	1
2	Ab initio reconstruction of small angle scattering data for membrane proteins in copolymer nanodiscs. <i>BBA Advances</i> , 2022, 2, 100033.	1.6	0
3	Fluorescent styrene maleic acid copolymers to facilitate membrane protein studies in lipid nanodiscs. <i>Nanoscale</i> , 2022, 14, 5689-5693.	5.6	3
4	Membrane extraction with styrene-maleic acid copolymer results in insulin receptor autophosphorylation in the absence of ligand. <i>Scientific Reports</i> , 2022, 12, 3532.	3.3	5
5	The interaction of styrene maleic acid copolymers with phospholipids in Langmuir monolayers, vesicles and nanodiscs; a structural study. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 220-236.	9.4	4
6	Enhanced antibacterial activity of size-controlled silver and polyethylene glycol functionalized silver nanoparticles. <i>Chemical Papers</i> , 2021, 75, 743-752.	2.2	13
7	In vitro sustained release of gallic acid from the size-controlled PEGylated magnetite nanoparticles. <i>Chemical Papers</i> , 2021, 75, 5339-5352.	2.2	5
8	Development of Methodology to Investigate the Surface SMALPome of Mammalian Cells. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 780033.	3.5	3
9	Adsorption of methylene blue onto size controlled magnetite nanoparticles. <i>Materials Research Express</i> , 2019, 6, 095511.	1.6	11
10	Comparison of the effects of gamma or sonochemical irradiation of carbon nanotubes and the influence on the mechanical and dielectric properties of chitosan nanocomposites. <i>Ultrasonics Sonochemistry</i> , 2019, 54, 241-249.	8.2	3
11	Sonochemical production and activation of responsive polymer microspheres. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 397-409.	8.2	5
12	Synthesis, Radiolabelling and In Vitro Imaging of Multifunctional Nanoceramics. <i>ChemNanoMat</i> , 2018, 4, 361-372.	2.8	13
13	Influence of Poly(styrene-co-maleic acid) Copolymer Structure on the Properties and Self-Assembly of SMALP Nanodiscs. <i>Biomacromolecules</i> , 2018, 19, 761-772.	5.4	57
14	Comparative study of the modification of multi-wall carbon nanotubes by gamma irradiation and sonochemically assisted acid etching. <i>Materials Chemistry and Physics</i> , 2018, 207, 23-29.	4.0	21
15	Sonochemical modification of carbon nanotubes for enhanced nanocomposite performance. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 123-130.	8.2	25
16	Ultrasound promoted synthesis and properties of chitosan nanocomposites containing carbon nanotubes and silver nanoparticles. <i>European Polymer Journal</i> , 2018, 105, 297-303.	5.4	15
17	Sonochemical production of nanoparticle metal oxides for potential use in dentistry. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 646-654.	8.2	6
18	Preparation, morphology and sonication time dependence of silver nanoparticles in amphiphilic block copolymers of PEO with polystyrene or PMMA. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	4

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19	Eco-friendly synthesis and catalytic application of chitosan/gold/carbon nanotube nanocomposite films. <i>RSC Advances</i> , 2016, 6, 60180-60186.	3.6	20
20	The Structures of Uncommon Cationic <i>N</i> -alkenyl Purine and Pyrimidine Bases. <i>Journal of Heterocyclic Chemistry</i> , 2016, 53, 64-68.	2.6	0
21	Computer aided assessment and feedback “can we enhance students’ early experience at University?. <i>New Directions in the Teaching of Physical Sciences</i> , 2016, , 29-34.	0.4	1
22	Using a VLE to enhance a Foundation Chemistry laboratory module. <i>New Directions in the Teaching of Physical Sciences</i> , 2016, , 35-40.	0.4	0
23	Thymine-functionalised siloxanes: Model compounds and polymers. <i>Journal of Organometallic Chemistry</i> , 2015, 778, 29-34.	1.8	0
24	Drug delivery into microneedle-porated nails from nanoparticle reservoirs. <i>Journal of Controlled Release</i> , 2015, 220, 98-106.	9.9	38
25	A computational simulation study on the acoustic pressure generated by a dental endosonic file: Effects of intensity, file shape and volume. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1858-1865.	8.2	8
26	Synergistic effects of combining ultrasound with the Fenton process in the degradation of Reactive Blue 19. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1206-1212.	8.2	105
27	Biomimetic polyorganosiloxanes: model compounds for new materials. <i>Dalton Transactions</i> , 2014, 43, 7734-7746.	3.3	5
28	Preparation of gold nanoparticles in polystyrene- <i>b</i> -PEO block copolymers: the role of ultrasound. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	4
29	Sonochemical characterisation of ultrasonic dental scalers. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 2052-2060.	8.2	6
30	Evaluation of drug delivery to intact and porated skin by coherent Raman scattering and fluorescence microscopies. <i>Journal of Controlled Release</i> , 2014, 174, 37-42.	9.9	70
31	Mapping cavitation activity around dental ultrasonic tips. <i>Clinical Oral Investigations</i> , 2013, 17, 1227-1234.	3.0	22
32	Sonochemical cleaning efficiencies in dental instruments. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	1
33	Encapsulation and release of aqueous components from sonochemically produced protein microspheres. <i>Chemical Communications</i> , 2012, 48, 9260.	4.1	9
34	Room temperature sonochemical initiation of thiol-ene reactions. <i>Chemical Communications</i> , 2012, 48, 6800.	4.1	35
35	Control of mesostructure in self-assembled polymer/surfactant films by rational micelle design. <i>Soft Matter</i> , 2012, 8, 3357.	2.7	11
36	Ultrasound promoted Wurtz coupling of alkyl bromides and dibromides. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 5-8.	8.2	8

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37	Ultrasound promoted reaction of Rhodamine B with sodium hypochlorite using sonochemical and dental ultrasonic instruments. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 358-364.	8.2	25
38	Composition of Calcium Carbonate Polymorphs Precipitated Using Ultrasound. <i>Crystal Growth and Design</i> , 2011, 11, 39-44.	3.0	72
39	Effects of Temperature and Polymer Composition upon the Aqueous Solution Properties of Comblike Linear Poly(ethylene imine)/Poly(2-ethyl-2-oxazoline)-Based Polymers. <i>Macromolecules</i> , 2011, 44, 7394-7404.	4.8	24
40	Deposition of Poly(ethyleneimine)/Poly(2-ethyl-2-oxazoline) Based Comb-Branched Polymers onto Polypropylene Nonwoven Fabric Using the Layer-by-Layer Technique. Selected Properties of the Modified Materials. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 1481-1495.	2.6	5
41	A modular approach to catalytic synthesis using a dual-functional linker for Click and Suzuki coupling reactions. <i>Tetrahedron Letters</i> , 2010, 51, 3913-3917.	1.4	29
42	Direct observation of cavitation fields at 23 and 515 kHz. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 30-33.	8.2	47
43	Synthesis of Temperature Responsive Poly( <i>N</i> -isopropylacrylamide) Using Ultrasound Irradiation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3178-3184.	2.6	41
44	Easy-separable magnetic nanoparticle-supported Pd catalysts: Kinetics, stability and catalyst re-use. <i>Journal of Catalysis</i> , 2009, 268, 318-328.	6.2	105
45	Synthesis and modification of silicon-containing polymers using ultrasound. <i>Polymer International</i> , 2009, 58, 290-295.	3.1	10
46	The rhodium-catalysed 1,2-addition of arylboronic acids to aldehydes and ketones with sulfonated S-Phos. <i>Tetrahedron Letters</i> , 2009, 50, 7365-7368.	1.4	40
47	Cavitation occurrence around ultrasonic dental scalers. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 692-697.	8.2	59
48	Disposition of Nanoparticles and an Associated Lipophilic Permeant following Topical Application to the Skin. <i>Molecular Pharmaceutics</i> , 2009, 6, 1441-1448.	4.6	81
49	Preparation and in Vitro Evaluation of Topical Formulations Based on Polystyrene-poly-2-hydroxyl Methacrylate Nanoparticles. <i>Molecular Pharmaceutics</i> , 2009, 6, 1449-1456.	4.6	24
50	Rhodium Containing Magnetic Nanoparticles: Effective Catalysts for Hydrogenation and the 1,4-Addition of Boronic Acids. <i>Catalysis Letters</i> , 2008, 122, 68-75.	2.6	36
51	Structural characterisation of trimethylsilyl-protected DNA bases. <i>Supramolecular Chemistry</i> , 2008, 20, 697-707.	1.2	4
52	Scanning laser vibrometry and luminol photomicrography to map cavitation activity around ultrasonic scalers. , 2008, , .		0
53	Shear strength at Sisal fibre-polyester resin interfaces: use of inverse gas chromatography to study pretreatment effects. <i>Composite Interfaces</i> , 2007, 14, 21-31.	2.3	4
54	Acoustic Emission Spectra from 515 kHz Cavitation in Aqueous Solutions Containing Surface-Active Solutes. <i>Journal of the American Chemical Society</i> , 2007, 129, 2250-2258.	13.7	85

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55	Vapour sorption studies of polymer-solution thermodynamics using a piezoelectric quartz crystal microbalance. <i>Polymer International</i> , 2006, 55, 816-824.	3.1	5
56	Potassium selective acrylic copolymers: Synthesis and application to chemical sensors. <i>Reactive and Functional Polymers</i> , 2006, 66, 109-121.	4.1	8
57	Potassium selective quartz crystal microbalance chemical sensors using functionalized copolymer coatings. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 466-472.	7.8	13
58	Ultrasonic intensification of ozone and electrochemical destruction of 1,3-dinitrobenzene and 2,4-dinitrotoluene. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 303-307.	8.2	50
59	A study to determine whether cavitation occurs around dental ultrasonic scaling instruments. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 233-236.	8.2	35
60	Acoustic Emission from Cavitating Solutions: Implications for the Mechanisms of Sonochemical Reactions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17799-17801.	2.6	53
61	Does cavitation occur around powered toothbrushes?. <i>Journal of Clinical Periodontology</i> , 2004, 31, 77-78.	4.9	2
62	Investigation of radical intermediates in polymer sonochemistry. <i>Research on Chemical Intermediates</i> , 2004, 30, 807-827.	2.7	13
63	Surface modification of calcium carbonates studied by inverse gas chromatography and the effect on mechanical properties of filled polypropylene. <i>Polymer International</i> , 2004, 53, 430-438.	3.1	33
64	Chromatographic estimation of filler surface energies and correlation with photodegradation of kaolin filled polyethylene. <i>Polymer</i> , 2004, 45, 1823-1831.	3.8	28
65	Correlation of mechanical properties of clay filled polyamide mouldings with chromatographically measured surface energies. <i>Polymer</i> , 2004, 45, 3663-3670.	3.8	37
66	Interactions of Solvents with Low Molar Mass and Side Chain Polymer Liquid Crystals Measured by Inverse Gas Chromatography. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16405-16414.	2.6	17
67	Sonoluminescence Quenching of Organic Compounds in Aqueous Solution: Frequency Effects and Implications for Sonochemistry. <i>Journal of the American Chemical Society</i> , 2004, 126, 2755-2762.	13.7	77
68	Correlation of the material properties of calcium carbonate filled polypropylene with the filler surface energies. <i>Journal of Applied Polymer Science</i> , 2003, 88, 1951-1955.	2.6	19
69	Organotin compounds bearing mesogenic sidechains: synthesis, X-ray structures and polymerisation chemistry. <i>Journal of Organometallic Chemistry</i> , 2003, 687, 46-56.	1.8	26
70	Inverse gas chromatography study of poly(dimethyl siloxane) liquid crystal mixtures. <i>Polymer</i> , 2003, 44, 1027-1034.	3.8	16
71	Recent developments in sonochemical polymerisation. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 277-283.	8.2	74
72	Sonoluminescence Emission from Aqueous Solutions of Organic Monomers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14124-14129.	2.6	13

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73	An inverse gas chromatography study of calcination and surface modification of kaolinite clays. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5552-5557.	2.8	16
74	Sonoluminescence quenching by organic acids in aqueous solution: pH and frequency effects. <i>Chemical Communications</i> , 2002, , 1740-1741.	4.1	24
75	Inverse gas chromatography study of the thermodynamic behaviour of thermotropic low molar mass and polymeric liquid crystals. Electronic supplementary information (ESI) available: Partial molar enthalpies, excess enthalpies, entropies and excess entropies for hydrocarbon probes in liquid crystals. See <a href="http://www.rsc.org/suppdata/cp/b2/b202173k/">http://www.rsc.org/suppdata/cp/b2/b202173k/</a> . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5307-5316.	2.8	8
76	Applications of inverse gas chromatography in the study of liquid crystalline stationary phases. <i>Journal of Chromatography A</i> , 2002, 969, 193-205.	3.7	29
77	Piezoelectric chemical sensors based on morpholine containing polymers. <i>Sensors and Actuators B: Chemical</i> , 2002, 84, 208-213.	7.8	24
78	The effect of high intensity ultrasound on the synthesis of some polyurethanes. <i>European Polymer Journal</i> , 2002, 38, 1531-1536.	5.4	31
79	The effect of high-intensity ultrasound on the ring-opening polymerisation of cyclic lactones. <i>European Polymer Journal</i> , 2002, 38, 1753-1760.	5.4	26
80	Inverse gas chromatographic measurement of solubility parameters in liquid crystalline systems. <i>Journal of Chromatography A</i> , 2002, 964, 199-204.	3.7	40
81	An improved azo chromophore for optical NO <sub>2</sub> sensing. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1750-1754.	2.8	14
82	Preparation and thermal properties of block copolymers of PDMS with styrene or methyl methacrylate using ATRP. <i>Polymer</i> , 2001, 42, 4767-4771.	3.8	46
83	Crown-ether containing copolymers as selective membranes for quartz crystal microbalance chemical sensors. <i>Polymer International</i> , 2000, 49, 926-930.	3.1	24
84	Surface modification of poly(vinyl chloride) using high intensity ultrasound. <i>Polymer International</i> , 1999, 48, 1141-1146.	3.1	3
85	APPLICATIONS OF ULTRASOUND TO MATERIALS CHEMISTRY. <i>Annual Review of Materials Research</i> , 1999, 29, 295-326.	5.5	1,436
86	Polymer Sonochemistry: Controlling the Structure and Properties of Macromolecules. , 1999, , 321-343.		11
87	Polymerization of microemulsions to yield functionalised absorbent membranes. <i>European Polymer Journal</i> , 1997, 33, 599-605.	5.4	10
88	Measurement of radical production as a result of cavitation in medical ultrasound fields. <i>Ultrasonics Sonochemistry</i> , 1997, 4, 165-171.	8.2	46
89	Sonochemistry and sonoluminescence. <i>Ultrasonics Sonochemistry</i> , 1997, 4, 325-326.	8.2	3
90	Sonochemically-Assisted Modification of Polyethylene Surfaces. <i>Macromolecules</i> , 1996, 29, 5664-5670.	4.8	43

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91	Wurtz synthesis of high molecular weight poly(dibutylstannane). Chemical Communications, 1996, , 711.	4.1	49
92	Sonochemical acceleration of persulfate decomposition. Polymer, 1996, 37, 3971-3973.	3.8	68
93	Ultrasonic production of block copolymers as in situ compatibilizers for polymer mixtures. Polymer, 1996, 37, 3975-3978.	3.8	28
94	Ultrasonically assisted synthesis and degradation of poly(dimethyl siloxane). Polymer, 1996, 37, 2303-2308.	3.8	31
95	The application of ultrasound to the synthesis of poly(organosilanes). European Polymer Journal, 1996, 32, 1289-1295.	5.4	10
96	Ultrasonically enhanced polymer synthesis. Ultrasonics Sonochemistry, 1996, 3, S229-S238.	8.2	107
97	Ultrasonically enhanced persulfate oxidation of polyethylene surfaces. Polymer, 1996, 37, 5825-5829.	3.8	49
98	Use of high-intensity ultrasound as a potential test method for diesel fuel stability. Fuel, 1995, 74, 1394-1397.	6.4	13
99	The effect of high-intensity ultrasound on solid polymers. Polymer, 1995, 36, 4919-4925.	3.8	51
100	The effect of high-intensity ultrasound on diesel fuels. Ultrasonics Sonochemistry, 1995, 2, S67-S70.	8.2	16
101	Investigation of mesophase transitions in liquid crystals using inverse gas chromatography. Canadian Journal of Chemistry, 1995, 73, 1883-1892.	1.1	12
102	Neural network prediction of glass-transition temperatures from monomer structure. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2491.	1.7	44
103	Selective piezoelectric sensors using polymer reagents. Analyst, The, 1995, 120, 161.	3.5	18
104	The effect of post-curing chemical changes on the mechanical properties of acrylic bone cement. Journal of Materials Science: Materials in Medicine, 1994, 5, 617-621.	3.6	20
105	Glycidyl methacrylate and N-vinylpyrrolidinone copolymers: synthesis and nuclear magnetic resonance characterization. Polymer, 1994, 35, 3530-3534.	3.8	22
106	Control of polymer structure using power ultrasound. Ultrasonics Sonochemistry, 1994, 1, S51-S57.	8.2	94
107	Ultrasonic degradation of polymer solutionsâ€”III. The effect of changing solvent and solution concentration. European Polymer Journal, 1993, 29, 419-424.	5.4	117
108	Study of polymer liquid crystals by gas chromatography. Polymer, 1993, 34, 85-89.	3.8	7

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109	Ultrasonic degradation of polymer solutions: 2. The effect of temperature, ultrasound intensity and dissolved gases on polystyrene in toluene. <i>Polymer</i> , 1993, 34, 4111-4117.	3.8	171
110	The use of dosimeters to measure radical production in aqueous sonochemical systems. <i>Ultrasonics</i> , 1993, 31, 451-456.	3.9	102
111	Preparation of poly(organosilanes) using high-intensity ultrasound. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1209.	2.0	29
112	Polymerization of methyl methacrylate initiated by ultrasound. <i>Macromolecules</i> , 1992, 25, 6447-6454.	4.8	137
113	Viscometric measurement of the thermodynamic properties of dilute polystyrene solutions. <i>Polymer</i> , 1992, 33, 2224-2226.	3.8	4
114	Ziegler-Natta polymerization under high intensity ultrasound. <i>Polymer</i> , 1992, 33, 4423-4424.	3.8	7
115	A quartz crystal microbalance apparatus for studying interactions of solvents with thin polymer films. <i>Progress in Organic Coatings</i> , 1991, 19, 265-274.	3.9	6
116	A re-examination of the sonochemical coupling of bromoaryls.. <i>Tetrahedron Letters</i> , 1991, 32, 7133-7134.	1.4	17
117	Ultrasonically initiated polymerization of methyl methacrylate. <i>Ultrasonics</i> , 1991, 29, 166-170.	3.9	33
118	Prediction of retention in gas-liquid chromatography using the UNIFAC group contribution method. <i>Journal of Chromatography A</i> , 1991, 585, 83-92.	3.7	6
119	Prediction of retention in gas-liquid chromatography using the UNIFAC group contribution method. <i>Journal of Chromatography A</i> , 1991, 586, 297-301.	3.7	2
120	Ultrasonic degradation of polymer solutions. 1. Polystyrene revisited. <i>Polymer International</i> , 1991, 24, 159-164.	3.1	99
121	Polymerization and copolymerization using high intensity ultrasound. <i>British Polymer Journal</i> , 1990, 23, 63-66.	0.7	26
122	Prediction of compatibility in polymer-plasticizer systems. <i>Polymer</i> , 1990, 31, 1745-1749.	3.8	8
123	Prediction of retention in gas-liquid chromatography using the unifac group contribution method. <i>Journal of Chromatography A</i> , 1989, 483, 1-19.	3.7	9
124	A rapid method for the determination of Mark-Houwink constants from GPC and viscosity data on a single sample. <i>Journal of Polymer Science Part A</i> , 1989, 27, 2925-2935.	2.3	8
125	Use of gas chromatography to determine the degree of crosslinking of a polymer network. <i>Macromolecules</i> , 1989, 22, 3116-3119.	4.8	10
126	Studies of Polymer Structure and Interactions by Automated Inverse Gas Chromatography. <i>ACS Symposium Series</i> , 1989, , 20-32.	0.5	6



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127	Calculation of Solubility Parameters by Inverse Gas Chromatography. ACS Symposium Series, 1989, , 48-58.	0.5	18
128	The use of gas chromatography to study solubility in polymeric systems. Journal of Solution Chemistry, 1987, 16, 605-613.	1.2	17
129	Prediction of thermodynamic properties of polymer solutions using the UNIFAC group-contribution method. Polymer, 1987, 28, 2105-2109.	3.8	9
130	Comparison of static with gas-chromatographic interaction parameters and estimation of the solubility parameter for poly(dimethylsiloxane). Macromolecules, 1986, 19, 362-363.	4.8	30
131	Static investigation of the influence of polymer molecular weight and loading in the gas chromatographic determination of poly(dimethylsiloxane) interaction parameters. Macromolecules, 1986, 19, 358-361.	4.8	25
132	Measurement of solubility parameters by gas-liquid chromatography. Journal of Chromatography A, 1986, 369, 273-280.	3.7	52
133	The Determination of Thermodynamic Properties of Polymer Solutions by Finite-Concentration Gas Chromatography. Journal of Macromolecular Science Part A, Chemistry, 1986, 23, 1487-1502.	0.3	17
134	Mixed Solvents in gas-liquid chromatography. Journal of Chromatography A, 1985, 324, 231-241.	3.7	6
135	Interaction parameters and miscibility limits of poly(dimethylsiloxane) and dinonyl phthalate or squalane determined from studies of the absorption of hexane by the binary liquid mixtures. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 473.	1.0	9
136	Use of the magnetic suspension balance for the study of polymersolutions. Thermochemica Acta, 1984, 82, 161-170.	2.7	15
137	Mixed solvents in gas-liquid chromatography. Journal of Chromatography A, 1983, 262, 33-39.	3.7	7
138	Mixed solvents in gas-liquid chromatography. Journal of Chromatography A, 1982, 238, 89-95.	3.7	4
139	Sonochemistry and drug delivery. , 0, , .		1