Xin-Sheng Chai

List of Publications by Year
in descending order

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88	901	567281	580821
papers	citations	15 h-index	25 g-index

89	89	89	894
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A rapid method for simultaneously determining ethanol and methanol content in wines by full evaporation headspace gas chromatography. Food Chemistry, 2015, 183, 169-172.	8.2	77
2	Novel Method for the Determination of the Methoxyl Content in Lignin by Headspace Gas Chromatography. Journal of Agricultural and Food Chemistry, 2012, 60, 5307-5310.	5.2	57
3	Rapid determination of hydrogen peroxide in pulp bleaching effluents by headspace gas chromatography. Journal of Chromatography A, 2012, 1235, 182-184.	3.7	46
4	Henryâ€™s constants of methanol in aqueous systems containing salts. Fluid Phase Equilibria, 2001, 185, 265-274.	2.5	38
5	A high-throughput headspace gas chromatographic technique for the determination of nitrite content in water samples. Journal of Chromatography A, 2018, 1538, 104-107.	3.7	37
6	Determination of oxalate in black liquor by headspace gas chromatography. Journal of Chromatography A, 2008, 1192, 208-211.	3.7	32
7	Rapid determination of moisture content in paper materials by multiple headspace extraction gas chromatography. Journal of Chromatography A, 2016, 1443, 62-65.	3.7	32
8	Determination of methanol in pulp washing filtrates by desiccated full evaporation headspace gas chromatography. Journal of Chromatography A, 2012, 1222, 1-4.	3.7	26
9	In Situ Determination of Bacterial Growth by Multiple Headspace Extraction Gas Chromatography. Analytical Chemistry, 2008, 80, 7820-7825.	6.5	23
10	Improvement of alkali efficiency for purification of dissolving pulp by a modified cold caustic extraction process. Carbohydrate Polymers, 2017, 178, 412-417.	10.2	20
11	An efficient method for determining the acid value in edible oils by solvent-assisted headspace gas chromatography. Analytical Methods, 2016, 8, 5789-5793.	2.7	20
12	Determination of solidâ€“liquid partition coefficient of volatile compounds by solid phase ratio variation based headspace analysis. Fluid Phase Equilibria, 2014, 380, 76-81.	2.5	19
13	Light Management in Flexible Glass by Wood Cellulose Coating. Scientific Reports, 2014, 4, 5842.	3.3	19
14	Biological activities and nitrogen and phosphorus removal during the anabaena flos-aquae biofilm growth using different nutrient form. Bioresource Technology, 2018, 251, 7-12.	9.6	19
15	Rapid method for determination of carbonyl groups in lignin compounds by headspace gas chromatography. Journal of Chromatography A, 2015, 1404, 39-43.	3.7	16
16	A practical headspace gas chromatographic method for the determination of oxalate in bleaching effluents. Journal of Industrial and Engineering Chemistry, 2014, 20, 13-16.	5.8	15
17	Effect of shortening kraft pulping integrated with extended oxygen delignification on biorefinery process performance of eucalyptus. Bioresource Technology, 2016, 202, 119-124.	9.6	14
18	Kinetic research on dechlorinating dichlorobenzene in aqueous system by nano-scale nickel/iron loaded with CMC/NFC hydrogel. Chemosphere, 2018, 194, 297-305.	8.2	14

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19	Determination of epichlorohydrin and 1,3-dichloro-2-propanol in synthesis of cationic etherifying reagent by headspace gas chromatography. Journal of Chromatography A, 2011, 1218, 6518-6521.	3.7	13
20	Rapid determination of methanol content in paper materials by alkaline extraction, coupled with headspace analysis. Journal of Chromatography A, 2014, 1350, 10-14.	3.7	13
21	A novel method for rapid determination of alpha-cellulose content in dissolving pulps by visible spectroscopy. Cellulose, 2015, 22, 2149-2156.	4.9	13
22	A quint-wavelength UV spectroscopy for simultaneous determination of dichlorobenzene, chlorobenzene, and benzene in simulated water reduced by nanoscale zero-valent Fe/Ni bimetal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 181, 55-59.	3.9	13
23	A novel method for the determination of black liquor viscosity by multiple headspace extraction gas chromatography. Journal of Chromatography A, 2013, 1320, 125-129.	3.7	12
24	Increasing the sensitivity of headspace analysis of low volatility solutes through water removal by hydrate formation. Journal of Chromatography A, 2014, 1343, 42-46.	3.7	12
25	Determination of epoxy groups in epoxy resins by reaction-based headspace gas chromatography. Polymer Testing, 2017, 59, 113-117.	4.8	12
26	A robust method for determining water-extractable alkylphenol polyethoxylates in textile products by reaction-based headspace gas chromatography. Journal of Chromatography A, 2015, 1406, 94-98.	3.7	11
27	Determination of isocyanate groups in the organic intermediates by reaction-based headspace gas chromatography. Journal of Chromatography A, 2016, 1468, 241-244.	3.7	11
28	Determination of Total Acid Content in Vinegars by Reaction-Based Headspace Gas Chromatography. Food Analytical Methods, 2017, 10, 419-423.	2.6	11
29	Rapid Determination of Titratable Acidity in Wines by Headspace Analysis. Food Analytical Methods, 2015, 8, 893-897.	2.6	10
30	Accurate determination of residual acrylic acid in superabsorbent polymer of hygiene products by headspace gas chromatography. Journal of Chromatography A, 2017, 1485, 20-23.	3.7	10
31	A pressure-affected headspace-gas chromatography method for determining calcium carbonate content in paper sample. Journal of Chromatography A, 2017, 1507, 32-36.	3.7	10
32	Oxalate Release and Formation during Alkaline Pulping. Journal of Wood Chemistry and Technology, 2012, 32, 187-197.	1.7	9
33	Rapid determination of residual formaldehyde in formaldehyde related polymer latexes by headspace gas chromatography. Journal of Industrial and Engineering Chemistry, 2013, 19, 748-751.	5.8	9
34	Impact of fiber initial water content on the water retention capacity of poplar APMP fibers during the thermal drying. Wood Science and Technology, 2020, 54, 227-235.	3.2	9
35	A novel multiple headspace extraction gas chromatographic method for measuring the diffusion coefficient of methanol in water and in olive oil. Journal of Chromatography A, 2015, 1385, 124-128.	3.7	8
36	Determination of the Degree of Substitution of Cationic Guar Gum by Headspace-Based Gas Chromatography during Its Synthesis. Journal of Agricultural and Food Chemistry, 2017, 65, 7012-7016.	5.2	8

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37	Mathematical Model for Predicting the Dissolution Behaviors of Hemicelluloses During Cold Caustic Extraction Process. AICHE Journal, 2019, 65, 13-17.	3.6	8
38	A simple multiâ€wavelength spectroscopic method for the determination of carboxyl group content in nanocellulose. Cellulose, 2021, 28, 2805-2811.	4.9	8
39	Rapid Identification of Tissue Paper Made from Blended Recycled Fibre by Fourier Transform near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2014, 22, 347-355.	1.5	7
40	Rapid Determination of Total Acid Content of Oils Resulting from Sub/Supercritical Water Liquefaction of Lignite by Headspace Gas Chromatography. Energy & Fuels, 2013, 27, 5135-5137.	5.1	6
41	A novel method for rapid determination of total solid content in viscous liquids by multiple headspace extraction gas chromatography. Journal of Chromatography A, 2014, 1358, 299-302.	3.7	6
42	Experimental data and kinetic models in terms of methanol formation during oxygen delignification processes of alkaline pulps. Holzforschung, 2015, 69, 933-942.	1.9	6
43	Determination of Porosity in Shale by Double Headspace Extraction GC Analysis. Analytical Chemistry, 2015, 87, 11072-11077.	6.5	6
44	Determination of Critical Micelle Concentration of Surfactants by Headspace Gas Chromatography. Journal of Surfactants and Detergents, 2017, 20, 1395-1400.	2.1	6
45	Determination of chlorinated volatile organic compounds in polyamine epichlorohydrin solution by headspace gas chromatography. Journal of Chromatography A, 2017, 1496, 163-166.	3.7	6
46	Method for improving accuracy in full evaporation headspace analysis. Journal of Separation Science, 2017, 40, 1974-1978.	2.5	6
47	Efficient Determination of Specific Surface Area of Shale Samples Using a Tracer-Based Headspace Gas Chromatographic Technique. Analytical Chemistry, 2017, 89, 974-979.	6.5	6
48	A simple and efficient headspace gas chromatographic method for the determination of carboxyl groups in nanofibrillated cellulose. Cellulose, 2018, 25, 953-959.	4.9	6
49	Determination of Inorganic Salt Solubility at a Temperature above the Boiling Point of Water by Multiple Headspace Extraction Gas Chromatography. Industrial & Engineering Chemistry Research, 2011, 50, 6413-6417.	3.7	5
50	A Novel Method for Determination of Ethoxyl Content in Ethyl Cellulose by Headspace Gas Chromatography. Analytical Letters, 2012, 45, 1028-1035.	1.8	5
51	New evidence for the role of the borohydride pretreatment on the hydrogen peroxide bleaching of kraft pulp. RSC Advances, 2015, 5, 98067-98074.	3.6	5
52	A rapid method for determining the reactivity of dissolving pulps by visible spectroscopy. Cellulose, 2015, 22, 2851-2857.	4.9	5
53	An Efficient Method for Determining the Î±-, Î²-, and Î³-Cellulose Content in Fully Delignified Pulps by Reaction-Based Headspace Gas Chromatography. Journal of Wood Chemistry and Technology, 2016, 36, 412-417.	1.7	5
54	Simple and efficient dual-wavelength spectroscopy for the determination of organic matter in sewage sludge from wastewater treatment. RSC Advances, 2019, 9, 12580-12584.	3.6	5

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55	In-situ determination of the observed yield coefficient of aerobic activated sludge by headspace gas chromatography. Journal of Chromatography A, 2020, 1610, 460560.	3.7	5
56	An improved sample preparation method for monomer conversion measurement using headspace gas chromatography in emulsion polymerization research. Journal of Applied Polymer Science, 2012, 124, 3525-3528.	2.6	4
57	Formation of Soluble Calcium in Alkaline Pulping of Acacia. Industrial & Engineering Chemistry Research, 2014, 53, 17282-17285.	3.7	4
58	Accurate determination of fiber water-retaining capability at process conditions by headspace gas chromatography. Journal of Chromatography A, 2016, 1464, 50-54.	3.7	4
59	A Practical Method for the Determination of Degree of Substitution in Sodium Carboxymethyl Starch. Food Analytical Methods, 2017, 10, 1592-1596.	2.6	4
60	Rapid determination of degree of substitution of sodium carboxymethylcellulose by headspace gas chromatography. Polymer Testing, 2018, 71, 6-9.	4.8	4
61	Determination of total phosphorus in soil and sludge by an effective headspace gas chromatographic method. RSC Advances, 2019, 9, 40961-40965.	3.6	4
62	Determination of water distribution in sludge by a multiple headspace extraction analytical technique. Journal of Chromatography A, 2020, 1628, 461449.	3.7	4
63	A novel headspace gas chromatographic method for in situ monitoring of monomer conversion during polymerization in an emulsion environment. Journal of Chromatography A, 2012, 1238, 128-131.	3.7	3
64	A new method for the determination of biological oxygen demand in domestic wastewater by headspace gas chromatography. Journal of Chromatography A, 2013, 1308, 32-36.	3.7	3
65	Rapid determination of products of phenol hydrogenation in a supercritical water system using headspace gas chromatography. Chemical Papers, 2015, 69, .	2.2	3
66	Determination of the softening point of rosin by a simple and automated headspace gas chromatographic technique. Journal of Separation Science, 2018, 41, 3411-3414.	2.5	3
67	A simple high-throughput headspace gas chromatographic method for the determination of dissolved oxygen in aqueous samples. Journal of Chromatography A, 2019, 1608, 460399.	3.7	3
68	Simultaneous Determination of the Degree of Deacetylation and Substitution on Carboxymethyl Chitosan by Headspace Gas Chromatography. Journal of Agricultural and Food Chemistry, 2019, 67, 8700-8705.	5.2	3
69	Determination of hydrophobic degree of paper packaging materials by a tracer-assisted headspace gas chromatography. Nordic Pulp and Paper Research Journal, 2020, 35, 370-375.	0.7	3
70	Determination of methanol partition coefficient in octanol/water system by a three-phase ratio variation headspace gas chromatographic method. Journal of Chromatography A, 2022, 1665, 462825.	3.7	3
71	Determination of the content of alkyl ketene dimer in its latex by an ionic-liquid assisted headspace gas chromatography. Journal of Chromatography A, 2017, 1530, 19-22.	3.7	2
72	High-throughput determination of the organic matter content in soil and municipal sludge by headspace gas chromatography. Analytical Methods, 2019, 11, 5963-5968.	2.7	2

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73	Determination of activity of denitrifying enzyme in soil samples by a headspace gas chromatographic technique. Journal of Chromatography A, 2021, 1638, 461882.	3.7	2
74	Determination of water content in municipal sludge by multiple headspace extraction gas chromatography. Analytical Methods, 2021, 13, 796-800.	2.7	2
75	A volatile tracer-assisted headspace analytical technique for determining the swelling capacity of superabsorbent polymers. Journal of Chromatography A, 2017, 1513, 222-225.	3.7	1
76	Determination of 3â€chloroâ€1,2â€propanediol in polyamideamine epichlorohydrin resin solution by reactionâ€based headspace gas chromatography. Journal of Separation Science, 2018, 41, 1576-1581.	2.5	1
77	Determination of lysine content based on an in situ pretreatment and headspace gas chromatographic measurement technique. Analytical and Bioanalytical Chemistry, 2018, 410, 3111-3117.	3.7	1
78	Modeling and prediction of methanol air release from bleached chemi-thermo mechanical pulp board. RSC Advances, 2018, 8, 16690-16695.	3.6	1
79	A rapid screening method for evaluating the total migratable hydrocarbons in paper products by headspace gas chromatography. RSC Advances, 2019, 9, 10226-10230.	3.6	1
80	The correlation between the water retention values of fibers by the centrifugation method and maximum content of fiber bonding water by the headspace GC method. Nordic Pulp and Paper Research Journal, 2019, 34, 304-309.	0.7	1
81	Determination of starch gelatinization temperatures by an automated headspace gas chromatography. Journal of Chromatography A, 2019, 1602, 419-424.	3.7	1
82	A Zero-Valent Pd/Fe Loaded and Nanofibrillated Cellulose-Reinforced Carboxymethyl Cellulose Hydrogel for Dechlorination of 2,4,6-Trichlorophenol. Journal of Nanoscience and Nanotechnology, 2019, 19, 7261-7268.	0.9	1
83	Kinetic modelling of alkyl ketene dimer hydrolysis during the storage and papermaking process. Canadian Journal of Chemical Engineering, 2019, 97, 2097-2101.	1.7	1
84	Quantitative determination of the oleophobicity of food packaging paper using headspace gas chromatographic technique. Packaging Technology and Science, 2021, 34, 297-302.	2.8	1
85	Simultaneous Determination of Amphiphobicities of Material Surface by A Dual-Indicator Headspace Gas Chromatography. Journal of Chromatography A, 2021, 1649, 462230.	3.7	1
86	Hydrolysis kinetics of epoxypropyltrimethylammonium chloride in ethanol/water solution system. Chemical Engineering Research and Design, 2018, 136, 41-47.	5.6	0
87	Accurate determination of melting Point of industrial grade alkyl ketene dimer wax by a simple and automated headspace gas chromatographic technique. Journal of Chromatography A, 2019, 1585, 192-195.	3.7	0
88	Determination of the surface charge of lignocellulosic fiber by a derived spectroscopic technique. Cellulose, 0, , .	4.9	0