

Toshihiko Hanai

List of Publications by Year in descending order

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103
papers

995
citations

516710

16
h-index

552781

26
g-index

104
all docs

104
docs citations

104
times ranked

558
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation of polar compounds using carbon columns. <i>Journal of Chromatography A</i> , 2003, 989, 183-196.	3.7	101
2	Characterization of bonded-amine packing for liquid chromatography and high-sensitivity determination of carbohydrates. <i>Carbohydrate Research</i> , 1980, 79, 1-10.	2.3	81
3	Hydrophobicity and Retention in Reversed Phase Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1982, 5, 229-244.	1.0	57
4	Influence of glycosylation on the drug binding of human serum albumin. , 1998, 12, 203-210.		39
5	Determination of d- and l-aspartate in cell culturing medium, within cells of MPT1 cell line and in rat blood by a column-switching high-performance liquid chromatographic method. <i>Biomedical Applications</i> , 2001, 761, 99-106.	1.7	34
6	Simulation of chromatography of phenolic compounds with a computational chemical method. <i>Journal of Chromatography A</i> , 2004, 1027, 279-287.	3.7	24
7	Non-aqueous solvent chromatography. <i>Journal of Chromatography A</i> , 1974, 88, 87-97.	3.7	22
8	PREDICTION OF RETENTION FACTORS OF PHENOLIC AND NITROGEN-CONTAINING COMPOUNDS IN REVERSED-PHASE LIQUID CHROMATOGRAPHY BASED ON logP AND pKa OBTAINED BY COMPUTATIONAL CHEMICAL CALCULATION. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2000, 23, 363-385.	1.0	22
9	Chromatography of guanidino compounds. <i>Biomedical Applications</i> , 2000, 747, 123-138.	1.7	21
10	Chromatography in silico, basic concept in reversed-phase liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 708-717.	3.7	21
11	Quantitative in silico analysis of SARS-CoV-2 S-RBD omicron mutant transmissibility. <i>Talanta</i> , 2022, 240, 123206.	5.5	21
12	Prediction of human serum albumin's drug binding affinity without albumin. <i>Analytica Chimica Acta</i> , 2002, 454, 101-108.	5.4	20
13	Thiolactomycin inhibits d-aspartate oxidase: A novel approach to probing the active site environment. <i>Biochimie</i> , 2010, 92, 1371-1378.	2.6	19
14	Analysis of the mechanism of retention on graphitic carbon by a computational chemical method. <i>Journal of Chromatography A</i> , 2004, 1030, 13-16.	3.7	18
15	Further studies of practical high-speed liquid chromatographic separations of tricarboxylic acid cycle organic acids and carbohydrates. <i>Journal of Chromatography A</i> , 1975, 108, 385-390.	3.7	17
16	Role of the active site residues arginine-216 and arginine-237 in the substrate specificity of mammalian d-aspartate oxidase. <i>Amino Acids</i> , 2011, 40, 467-476.	2.7	17
17	Non-Aqueous Solvent Chromatography V: The Comparison of Organic and Inorganic Adsorbents. <i>Journal of Chromatographic Science</i> , 1976, 14, 140-143.	1.4	16
18	Liquid chromatography of guanidino compounds using a porous graphite carbon column and application to their analysis in serum. <i>Biomedical Applications</i> , 1998, 707, 111-120.	1.7	16

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19	Development of Crude Drug Analysis by Liquid Chromatography, and UV and MS Spectrometers. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1990, 13, 2449-2464.	1.0	15
20	Non-aqueous solvent chromatography II. Separation of benzene derivatives in the anion-exchange and n-butyl alcohol system. <i>Journal of Chromatography A</i> , 1972, 72, 187-191.	3.7	14
21	Computer-aided analysis of molecular recognition in chromatography. <i>Analyst, The</i> , 1993, 118, 1371.	3.5	13
22	Development of a highly sensitive fluorescence reaction detection system for liquid chromatographic analysis of reducing carbohydrates. <i>Analyst, The</i> , 1993, 118, 773.	3.5	13
23	Quantitative analysis of human serum albumin-drug interactions using reversed-phase and ion-exchange liquid chromatography. <i>Analytica Chimica Acta</i> , 1999, 378, 77-82.	5.4	13
24	Computational Chemical Simulation of Chromatographic Retention of Phenolic Compounds. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2003, 26, 2031-2039.	1.0	13
25	Retention behaviour of polyunsaturated fatty acid methyl esters on porous graphitic carbon. <i>Journal of Chromatography A</i> , 2007, 1157, 56-64.	3.7	13
26	QSRR in Liquid Chromatography Aided by Computational Chemistry. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1993, 16, 1453-1462.	1.0	12
27	Selectivity related to carbon loading and end-capping of octadecyl-bonded silica gels in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1988, 441, 183-196.	3.7	11
28	Molecular recognition in chromatography aided by computational chemistry. <i>Supramolecular Chemistry</i> , 1994, 3, 243-247.	1.2	11
29	COMPUTATIONAL CHEMICAL PREDICTION OF THE RETENTION FACTOR OF AROMATIC ACIDS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 1661-1676.	1.0	11
30	Computational Chemical Analysis of the Retention of Acidic Drugs on a Pentyl-Bonded Silica Gel in Reversed-Phase Liquid Chromatography. <i>Journal of Chromatographic Science</i> , 2004, 42, 354-360.	1.4	10
31	Chromatography In Silico for Basic Drugs. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2005, 28, 2163-2177.	1.0	10
32	2NI Injector for Capillary Electrophoresis. <i>Instrumentation Science and Technology</i> , 1994, 22, 151-155.	1.8	9
33	SELECTIVE CHEMILUMINESCENCE ANALYSIS OF AMADORI FORM OF GLYCATED HUMAN SERUM ALBUMIN. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2000, 23, 3119-3131.	1.0	9
34	Chromatography in silica, quantitative analysis of retention mechanisms of benzoic acid derivatives. <i>Journal of Chromatography A</i> , 2005, 1087, 45-51.	3.7	9
35	Molecular Modeling for Quantitative Analysis of Molecular Interaction. <i>Letters in Drug Design and Discovery</i> , 2005, 2, 232-238.	0.7	9
36	Definition of HILIC System and Quantitative Analysis of Retention Mechanisms. <i>Current Chromatography</i> , 2018, 5, 43-52.	0.3	9

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37	Fundamental Properties of Packing Materials for Liquid Chromatography. Separations, 2019, 6, 2.	2.4	9
38	Effect of enthalpy on structure-relation correlation in capillary gas chromatography. Journal of High Resolution Chromatography, 1990, 13, 178-181.	1.4	8
39	Chromatography In Silico; Retention of Basic Compounds on a Carboxyl Ion Exchanger. Journal of Liquid Chromatography and Related Technologies, 2005, 28, 3087-3097.	1.0	8
40	Non-aqueous solvent chromatography. Journal of Chromatography A, 1973, 78, 424-428.	3.7	7
41	Selectivity Related to Carbon Loading and Endcapping of Octadecyl Bonded Silica Gels in the Reversed-Phase Liquid Chromatography of Phenolic Compounds. Journal of Chromatographic Science, 1989, 27, 710-715.	1.4	7
42	Study of chemobiological reactions. 1. Selectivity of aromatic amino compounds and saccharides in glycosylation reactions. Biomedical Chromatography, 1993, 7, 64-67.	1.7	7
43	Highly sensitive detection of non-reducing carbohydrates by liquid chromatography. Analyst, The, 1993, 118, 769.	3.5	7
44	Computational chemical analysis of the retention of phenols in reversed-phase liquid chromatography. Analyst, The, 1994, 119, 1167.	3.5	7
45	Chemiluminescence-HPLC for the Assay of Guanidino Compounds.. Chemical and Pharmaceutical Bulletin, 2000, 48, 1841-1842.	1.3	7
46	Separation of free amino acids by reversed-phase ion-pair chromatography with column switching and isocratic elution. Journal of Chromatography A, 1990, 507, 95-101.	3.7	6
47	Enthalpy and Boiling Points in Capillary Column Gas Chromatography.. Analytical Sciences, 1993, 9, 43-46.	1.6	6
48	Quantitative in silico analysis of the selectivity of graphitic carbon synthesized by different methods. Analytical and Bioanalytical Chemistry, 2008, 390, 369-375.	3.7	6
49	Quantitative in silico Analysis of Organic Modifier Effect on Retention in Reversed-Phase Liquid Chromatography. Journal of Chromatographic Science, 2014, 52, 75-80.	1.4	6
50	Quantitative In Silico Analysis of Retention of Phenylthiohydantoin-Amino Acids in Reversed-Phase Ion-Pair Liquid Chromatography. Journal of Chromatographic Science, 2016, 54, 604-608.	1.4	6
51	Liquid chromatography of mono-and di-substituted benzene derivatives with anion-exchange resin and ethanol. Bunseki Kagaku, 1971, 20, 427-430.	0.2	5
52	Determination of the migration times of flow measurement markers in CEC. Journal of High Resolution Chromatography, 1991, 14, 481-483.	1.4	5
53	Computational chemical analysis of chiral recognition in liquid chromatography, selectivity of N-(R)-1-(1±-naphthyl)ethylamino carbonyl-(R or S)-valine and N-(S)-1-(1±-naphthyl)ethylamino carbonyl-(R or S)-valine. Journal of Chromatographic Science, 2014, 52, 75-80.	1.4	5
54	Automatic System for the Assay of Guanidino Compounds to Assess Uremic Status.. Biological and Pharmaceutical Bulletin, 2000, 23, 1015-1020.	1.4	5

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55	In silico Modeling Study on Molecular Interactions in Reversed-Phase Liquid Chromatography. Journal of Chromatographic Science, 2015, 53, 1084-1091.	1.4	5
56	Introduction of In Silico Chromatography. Journal of Chromatography & Separation Techniques, 2016, 7, .	0.2	5
57	Investigation of the relationship between migration time and pKa in capillary electrochromatography. Journal of High Resolution Chromatography, 1991, 14, 561-563.	1.4	4
58	The development of a sensitive myo-inositol analyser using a liquid chromatograph with a post-label fluorescence detector. Biomedical Chromatography, 1995, 9, 146-149.	1.7	4
59	Development of protamine-bonded phase for separation of saccharides in liquid chromatography. Journal of Chromatography A, 1996, 737, 149-156.	3.7	4
60	Automatic System for the Assay of Guanidino Compounds to Assess Uremic Status and Effect of Hemodialysis.. Chemical and Pharmaceutical Bulletin, 1998, 46, 1844-1845.	1.3	4
61	SELECTIVITY OF PHENYLHEXYL-BONDED SILICA GEL FOR LIQUID CHROMATOGRAPHY. Journal of Liquid Chromatography and Related Technologies, 1999, 22, 501-511.	1.0	4
62	Chromatography in Silico, Quantitative Analysis of Retention of Aromatic Acid Derivatives. Journal of Chromatographic Science, 2006, 44, 247-252.	1.4	4
63	Evaluation of Measuring Methods of Human Serum Albumin-Drug Binding Affinity. Current Pharmaceutical Analysis, 2007, 3, 205-212.	0.6	4
64	Chromatography In Silico: Retention of Acidic Drugs on a Guanidino Ion-Exchange. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 1723-1731.	1.0	4
65	Quantitative Explanation of Retention Mechanisms in Reversed-phase Mode Liquid Chromatography, and Utilization of Typical Reversed-phase Liquid Chromatography for Drug Discovery. Current Chromatography, 2019, 6, 52-64.	0.3	4
66	SYNTHESIS AND PROPERTIES OF STABLE BONDED SILICA GEL PACKINGS AND THE PERFORMANCE. Methods in Chromatography, 1996, , 307-329.	0.0	4
67	Phenylfluorone as an organic reagent. Bunseki Kagaku, 1968, 17, 86-88.	0.2	3
68	Chromatographic Behavior of Aromatic Acids on Macroporous Ion-Exchange Resin. Journal of Liquid Chromatography and Related Technologies, 1983, 6, 1081-1097.	1.0	3
69	Simple Free Amino Acid Separation by Reversed-Phase Ion-Pair Liquid Chromatography Using Column Switching Technique. Journal of Liquid Chromatography and Related Technologies, 1988, 11, 1741-1751.	1.0	3
70	Study of Ion-Ion Interaction for Protein-Drug Binding using a Newly Developed Guanidino-Bonded Phase in Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1998, 21, 2887-2895.	1.0	3
71	Strategies for Electromigration Separations of Biologically Relevant Compounds. Journal of Chromatography Library, 1998, 60, 53-93.	0.1	3
72	Quantitative In Silico Analysis of Ion Exchange from Chromatography to Protein. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 1251-1275.	1.0	3

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73	QUANTITATIVE <i>IN SILICO</i> ANALYSIS OF RETENTION IN NORMAL PHASE LIQUID CHROMATOGRAPHY. Journal of Liquid Chromatography and Related Technologies, 2010, 33, 297-304.	1.0	3
74	RSC Chromatography Monographs Quantitative <i>In Silico</i> Chromatography Computational Modeling of Molecular Interactions Toshihiko Hanai Royal Society of Chemistry, Cambridge, UK, 2014 ISBN 978-1-84973-991-7 338 pages £145.00. Journal of Separation Science, 2014, 37, 3013-3014.	2.5	3
75	Quantitative Evaluation of Dissociation Mechanisms in Phenolphthalein and the Related Compounds. Journal of Computer Chemistry Japan, 2016, 15, 13-21.	0.1	3
76	Quantitative Explanation of Retention Mechanisms of Hydrophobic and Hydrophilic-Interaction Liquid Chromatography-Inductive Effect of Alkyl Chain. Separations, 2017, 4, 33.	2.4	3
77	- Oligonucleotide Adducts as Biomarkers for DNA Damages: Analysis by Mass Spectrometry Coupled to Separation Methods. , 2016, 49, 204-265.		3
78	Optimization of reversed-phase-mode liquid chromatography based on characteristics of molecules.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1986, 1986, 969-975.	0.1	2
79	Development of Automated Highly Sensitive Analytical System for Guanethidine Sulfate in Serum. Journal of Liquid Chromatography and Related Technologies, 1997, 20, 2099-2108.	1.0	2
80	DEVELOPMENT OF CHEMICALLY STABLE ION-EXCHANGERS BASED ON SILICA GELS. Journal of Liquid Chromatography and Related Technologies, 1999, 22, 2613-2625.	1.0	2
81	Analysis of the Mechanism of Retention on a Modified β -Cyclodextrin/Silica Chiral Stationary Phase using a Computational Chemical Method. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 3043-3057.	1.0	2
82	The Generation of Lucigenin Chemiluminescence from the Reaction of Guanidino Compounds with Phenylglyoxal under Alkaline Conditions and Its Application. Chemical and Pharmaceutical Bulletin, 2009, 57, 700-703.	1.3	2
83	Simple Model Bonded-Phases to Design a Homogeneous Support for <i>In Silico</i> Chromatography. International Journal of Analytical Techniques, 2018, 4, 1-6.	0.3	2
84	Separation of sugar phosphates on a cellulose ion exchanger. Bunseki Kagaku, 1967, 16, 1244-1248.	0.2	1
85	Analysis of Chemically Bonded Silica Gel by Computational Chemistry. Journal of Liquid Chromatography and Related Technologies, 1993, 16, 109-114.	1.0	1
86	Computational Chemical Analysis of the Chiral Recognition of Binuclear Copper (II) of N-Salicylidene (R)-2-Amino-1,2-bis(2-butoxy-5-tert-butylphenyl)-3-phenyl-1-propanol in Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1994, 17, 4327-4334.	1.0	1
87	Molecular recognition of saccharides using synthesized glycated surface active reagents. , 1996, 10, 25-28.		1
88	Computational Chemical Analysis of the Separation of Derivatized R- and S-Amino Acid Enantiomers on N-(tert-Butylaminocarbonyl)-(S)-valylamino-propylsilica Gel and (R)-1-(1-Naphthyl)-ethylaminocarbonyl-glycylamino-propylsilica Gel by Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1996, 19, 1189-1204.	1.0	1
89	Selection of Chromatographic Methods for Biological Materials. Journal of Chromatography Library, 1998, 60, 1-51.	0.1	1
90	FAST, SELECTIVE ANALYSIS OF GLYCATED ALBUMIN IN HSA. Journal of Liquid Chromatography and Related Technologies, 2002, 25, 275-286.	1.0	1

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91	QUANTITATIVE ANALYSIS OF CHEMILUMINESCENCE INTENSITY AND TOXICITY <i>IN SILICO</i> , 2005, , .		1
92	Quantitative <i>In Silico</i> Analysis of the Specificity of a Graphitic Carbon Column. Journal of Liquid Chromatography and Related Technologies, 2009, 32, 647-655.	1.0	1
93	Quantitative <i>In Silico</i> Analysis of Retention of Nitrobenzofurazan-Amino Acids in Reversed-Phase Ion-Pair Liquid Chromatography. Journal of Chromatographic Science, 2016, 54, 1723-1726.	1.4	1
94	Quantitative analysis of selective glycosylation of saccharides with aromatic amines. Carbohydrate Research, 2020, 498, 108171.	2.3	1
95	In Silico Chromatography: Modeling a New Support for Alkyl-Bonded Phases and a Solvent Phase. Journal of Analytical Bioanalytical and Separation Techniques, 2017, 2, 111-117.	0.1	1
96	Hydrophilic Interaction Liquid Chromatography for LC-MS. Mass Spectrometry & Purification Techniques, 2018, 04, .	0.2	1
97	Aluminon as an organic reagent. Bunseki Kagaku, 1968, 17, 482-484.	0.2	0
98	Selectivity of an octadecyl-modified vinyl alcohol copolymer gel for the retention of polar compounds. Journal of Chromatography A, 1989, 468, 191-199.	3.7	0
99	QUANTITATIVE COMPUTATIONAL CHEMICAL ANALYSIS OF THE SENSITIVITY OF CHEMILUMINESCENCE DETECTION. Journal of Liquid Chromatography and Related Technologies, 2002, 25, 2425-2431.	1.0	0
100	Semi-micro liquid chromatography of aromatic amino acid metabolites using isocratic elution and Column switching. Biomedical Chromatography, 2002, 16, 420-424.	1.7	0
101	Quantitative Explanation of Basic Compound Retention Mechanisms in Reversed-Phase Mode Liquid Chromatography. Separations, 2020, 7, 61.	2.4	0
102	ORGANIC POLYMER PACKINGS. Methods in Chromatography, 1996, , 289-306.	0.0	0
103	Quantitative in silico analysis of selective enzyme reaction of mammalian D-amino acid oxidase and acidic D-amino acid oxidase mutants. SDRP Journal of Computational Chemistry & Molecular Modelling, 2018, 2, 1-8.	0.3	0