

Toshihiko Hanai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2514347/publications.pdf>

Version: 2024-02-01

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	Quantitative in silico analysis of SARS-CoV-2 S-RBD omicron mutant transmissibility. <i>Talanta</i> , 2022, 240, 123206.	5.5	21
2	Quantitative analysis of selective glycosylation of saccharides with aromatic amines. <i>Carbohydrate Research</i> , 2020, 498, 108171.	2.3	1
3	Quantitative Explanation of Basic Compound Retention Mechanisms in Reversed-Phase Mode Liquid Chromatography. <i>Separations</i> , 2020, 7, 61.	2.4	0
4	Quantitative Explanation of Retention Mechanisms in Reversed-phase Mode Liquid Chromatography, and Utilization of Typical Reversed-phase Liquid Chromatography for Drug Discovery. <i>Current Chromatography</i> , 2019, 6, 52-64.	0.3	4
5	Fundamental Properties of Packing Materials for Liquid Chromatography. <i>Separations</i> , 2019, 6, 2.	2.4	9
6	Definition of HILIC System and Quantitative Analysis of Retention Mechanisms. <i>Current Chromatography</i> , 2018, 5, 43-52.	0.3	9
7	Simple Model Bonded-Phases to Design a Homogeneous Support for In Silico Chromatography. <i>International Journal of Analytical Techniques</i> , 2018, 4, 1-6.	0.3	2
8	Hydrophilic Interaction Liquid Chromatography for LC-MS. <i>Mass Spectrometry & Purification Techniques</i> , 2018, 04, .	0.2	1
9	Quantitative in silico analysis of selective enzyme reaction of mammalian D-amino acid oxidase and acidic D-amino acid oxidase mutants. <i>SDRP Journal of Computational Chemistry & Molecular Modelling</i> , 2018, 2, 1-8.	0.3	0
10	Quantitative Explanation of Retention Mechanisms of Hydrophobic and Hydrophilic-Interaction Liquid Chromatography-Inductive Effect of Alkyl Chain. <i>Separations</i> , 2017, 4, 33.	2.4	3
11	In Silico Chromatography: Modeling a New Support for Alkyl-Bonded Phases and a Solvent Phase. <i>Journal of Analytical Bioanalytical and Separation Techniques</i> , 2017, 2, 111-117.	0.1	1
12	Introduction of In Silico Chromatography. <i>Journal of Chromatography & Separation Techniques</i> , 2016, 7, .	0.2	5
13	Quantitative In Silico Analysis of Retention of Nitrobenzofurazan-Amino Acids in Reversed-Phase Ion-Pair Liquid Chromatography. <i>Journal of Chromatographic Science</i> , 2016, 54, 1723-1726.	1.4	1
14	Quantitative Evaluation of Dissociation Mechanisms in Phenolphthalein and the Related Compounds. <i>Journal of Computer Chemistry Japan</i> , 2016, 15, 13-21.	0.1	3
15	Quantitative In Silico Analysis of Retention of Phenylthiohydantoin-Amino Acids in Reversed-Phase Ion-Pair Liquid Chromatography. <i>Journal of Chromatographic Science</i> , 2016, 54, 604-608.	1.4	6
16	- Oligonucleotide Adducts as Biomarkers for DNA Damages: Analysis by Mass Spectrometry Coupled to Separation Methods. , 2016, 49, 204-265.		3
17	In silico Modeling Study on Molecular Interactions in Reversed-Phase Liquid Chromatography. <i>Journal of Chromatographic Science</i> , 2015, 53, 1084-1091.	1.4	5
18	RSC Chromatography Monographs Quantitative In Silico 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. <i>Journal of Separation Science</i> , 2014, 37, 3013-3014.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Quantitative in silico Analysis of Organic Modifier Effect on Retention in Reversed-Phase Liquid Chromatography. <i>Journal of Chromatographic Science</i> , 2014, 52, 75-80.	1.4	6
20	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
21	QUANTITATIVE <i>IN SILICO</i> ANALYSIS OF RETENTION IN NORMAL PHASE LIQUID CHROMATOGRAPHY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2010, 33, 297-304.	1.0	3
22	Thiolactomycin inhibits d-aspartate oxidase: A novel approach to probing the active site environment. <i>Biochimie</i> , 2010, 92, 1371-1378.	2.6	19
23	Quantitative <i>In Silico</i> Analysis of the Specificity of a Graphitic Carbon Column. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009, 32, 647-655.	1.0	1
24	The Generation of Lucigenin Chemiluminescence from the Reaction of Guanidino Compounds with Phenylglyoxal under Alkaline Conditions and Its Application. <i>Chemical and Pharmaceutical Bulletin</i> , 2009, 57, 700-703.	1.3	2
25	Quantitative in silico analysis of the selectivity of graphitic carbon synthesized by different methods. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 369-375.	3.7	6
26	Quantitative In Silico Analysis of Ion Exchange from Chromatography to Protein. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 1251-1275.	1.0	3
27	Evaluation of Measuring Methods of Human Serum Albumin-Drug Binding Affinity. <i>Current Pharmaceutical Analysis</i> , 2007, 3, 205-212.	0.6	4
28	Chromatography In Silico: Retention of Acidic Drugs on a Guanidino Ion-Exchange. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 1723-1731.	1.0	4
29	Analysis of the Mechanism of Retention on a Modified β -Cyclodextrin/Silica Chiral Stationary Phase using a Computational Chemical Method. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 3043-3057.	1.0	2
30	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
31	Chromatography in Silico, Quantitative Analysis of Retention of Aromatic Acid Derivatives. <i>Journal of Chromatographic Science</i> , 2006, 44, 247-252.	1.4	4
32	QUANTITATIVE ANALYSIS OF CHEMILUMINESCENCE INTENSITY AND TOXICITY <i>IN SILICO</i> . , 2005, , .		1
33	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
34	Chromatography in silico, basic concept in reversed-phase liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 708-717.	3.7	21
35	Chromatography In Silico for Basic Drugs. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2005, 28, 2163-2177.	1.0	10
36	Molecular Modeling for Quantitative Analysis of Molecular Interaction. <i>Letters in Drug Design and Discovery</i> , 2005, 2, 232-238.	0.7	9

#	ARTICLE	IF	CITATIONS
37	Chromatography In Silico; Retention of Basic Compounds on a Carboxyl Ion Exchanger. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2005, 28, 3087-3097.	1.0	8
38	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
39	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
40	Simulation of chromatography of phenolic compounds with a computational chemical method. <i>Journal of Chromatography A</i> , 2004, 1027, 279-287.	3.7	24
41	Separation of polar compounds using carbon columns. <i>Journal of Chromatography A</i> , 2003, 989, 183-196.	3.7	101
42	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
43	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
44	QUANTITATIVE COMPUTATIONAL CHEMICAL ANALYSIS OF THE SENSITIVITY OF CHEMILUMINESCENCE DETECTION. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 2425-2431.	1.0	0
45	FAST, SELECTIVE ANALYSIS OF GLYCATED ALBUMIN IN HSA. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 275-286.	1.0	1
46	Semi-micro liquid chromatography of aromatic amino acid metabolites using isocratic elution and Column switching. <i>Biomedical Chromatography</i> , 2002, 16, 420-424.	1.7	0
47	Prediction of human serum albumin's drug binding affinity without albumin. <i>Analytica Chimica Acta</i> , 2002, 454, 101-108.	5.4	20
48	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
49	Automatic System for the Assay of Guanidino Compounds to Assess Uremic Status.. <i>Biological and Pharmaceutical Bulletin</i> , 2000, 23, 1015-1020.	1.4	5
50	Chemiluminescence-HPLC for the Assay of Guanidino Compounds.. <i>Chemical and Pharmaceutical Bulletin</i> , 2000, 48, 1841-1842.	1.3	7
51	Chromatography of guanidino compounds. <i>Biomedical Applications</i> , 2000, 747, 123-138.	1.7	21
52	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
53	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
54	Quantitative analysis of human serum albumin's drug interactions using reversed-phase and ion-exchange liquid chromatography. <i>Analytica Chimica Acta</i> , 1999, 378, 77-82.	5.4	13

#	ARTICLE	IF	CITATIONS
55	SELECTIVITY OF PHENYLHEXYL-BONDED SILICA GEL FOR LIQUID CHROMATOGRAPHY. Journal of Liquid Chromatography and Related Technologies, 1999, 22, 501-511.	1.0	4
56	DEVELOPMENT OF CHEMICALLY STABLE ION-EXCHANGERS BASED ON SILICA GELS. Journal of Liquid Chromatography and Related Technologies, 1999, 22, 2613-2625.	1.0	2
57	Influence of glycosylation on the drug binding of human serum albumin. , 1998, 12, 203-210.		39
58	Liquid chromatography of guanidino compounds using a porous graphite carbon column and application to their analysis in serum. Biomedical Applications, 1998, 707, 111-120.	1.7	16
59	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
60	Selection of Chromatographic Methods for Biological Materials. Journal of Chromatography Library, 1998, 60, 1-51.	0.1	1
61	Strategies for Electromigration Separations of Biologically Relevant Compounds. Journal of Chromatography Library, 1998, 60, 53-93.	0.1	3
62	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
63	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
64	Development of protamine-bonded phase for separation of saccharides in liquid chromatography. Journal of Chromatography A, 1996, 737, 149-156.	3.7	4
65	Molecular recognition of saccharides using synthesized glycated surface active reagents. , 1996, 10, 25-28.		1
66	Computational chemical analysis of chiral recognition in liquid chromatography, selectivity of N-(R)-1-(1- \pm -naphthyl)ethylamino carbonyl-(R or S)-valine and N-(S)-1-(1- \pm -naphthyl)ethylamino carbonyl-(R or S)-valine. Journal of Chromatography A, 1996, 737, 149-156.	0.0	0
67	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- \pm -Naphthyl)-ethylaminocarbonyl-glycylamino-propylsilica Gel by Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1996, 19, 1189-1204.	1.0	1
68	SYNTHESIS AND PROPERTIES OF STABLE BONDED SILICA GEL PACKINGS AND THE PERFORMANCE. Methods in Chromatography, 1996, , 307-329.	0.0	4
69	ORGANIC POLYMER PACKINGS. Methods in Chromatography, 1996, , 289-306.	0.0	0
70	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
71	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
72	Molecular recognition in chromatography aided by computational chemistry. Supramolecular Chemistry, 1994, 3, 243-247.	1.2	11

#	ARTICLE	IF	CITATIONS
73	Computational chemical analysis of the retention of phenols in reversed-phase liquid chromatography. <i>Analyst, The</i> , 1994, 119, 1167.	3.5	7
74	2NI Injector for Capillary Electrophoresis. <i>Instrumentation Science and Technology</i> , 1994, 22, 151-155.	1.8	9
75	Study of chemobiological reactions. 1. Selectivity of aromatic amino compounds and saccharides in glycosylation reactions. <i>Biomedical Chromatography</i> , 1993, 7, 64-67.	1.7	7
76	Analysis of Chemically Bonded Silica Gel by Computational Chemistry. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1993, 16, 109-114.	1.0	1
77	Highly sensitive detection of non-reducing carbohydrates by liquid chromatography. <i>Analyst, The</i> , 1993, 118, 769.	3.5	7
78	Computer-aided analysis of molecular recognition in chromatography. <i>Analyst, The</i> , 1993, 118, 1371.	3.5	13
79	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
80	QSRR in Liquid Chromatography Aided by Computational Chemistry. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1993, 16, 1453-1462.	1.0	12
81	Enthalpy and Boiling Points in Capillary Column Gas Chromatography.. <i>Analytical Sciences</i> , 1993, 9, 43-46.	1.6	6
82	Determination of the migration times of flow measurement markers in CEC. <i>Journal of High Resolution Chromatography</i> , 1991, 14, 481-483.	1.4	5
83	Investigation of the relationship between migration time and pKa in capillary electrochromatography. <i>Journal of High Resolution Chromatography</i> , 1991, 14, 561-563.	1.4	4
84	Effect of enthalpy on structure-relation correlation in capillary gas chromatography. <i>Journal of High Resolution Chromatography</i> , 1990, 13, 178-181.	1.4	8
85	Separation of free amino acids by reversed-phase ion-pair chromatography with column switching and isocratic elution. <i>Journal of Chromatography A</i> , 1990, 507, 95-101.	3.7	6
86	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
87	Selectivity Related to Carbon Loading and Endcapping of Octadecyl Bonded Silica Gels in the Reversed-Phase Liquid Chromatography of Phenolic Compounds. <i>Journal of Chromatographic Science</i> , 1989, 27, 710-715.	1.4	7
88	Selectivity of an octadecyl-modified vinyl alcohol copolymer gel for the retention of polar compounds. <i>Journal of Chromatography A</i> , 1989, 468, 191-199.	3.7	0
89	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
90	Simple Free Amino Acid Separation by Reversed-Phase Ion-Pair Liquid Chromatography Using Column Switching Technique. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1988, 11, 1741-1751.	1.0	3

#	ARTICLE	IF	CITATIONS
91	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
92	Chromatographic Behavior of Aromatic Acids on Macroporous Ion-Exchange Resin. Journal of Liquid Chromatography and Related Technologies, 1983, 6, 1081-1097.	1.0	3
93	Hydrophobicity and Retention in Reversed Phase Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1982, 5, 229-244.	1.0	57
94	Characterization of bonded-amine packing for liquid chromatography and high-sensitivity determination of carbohydrates. Carbohydrate Research, 1980, 79, 1-10.	2.3	81
95	Non-Aqueous Solvent Chromatography V: The Comparison of Organic and Inorganic Adsorbents. Journal of Chromatographic Science, 1976, 14, 140-143.	1.4	16
96	Further studies of practical high-speed liquid chromatographic separations of tricarboxylic acid cycle organic acids and carbohydrates. Journal of Chromatography A, 1975, 108, 385-390.	3.7	17
97	Non-aqueous solvent chromatography. Journal of Chromatography A, 1974, 88, 87-97.	3.7	22
98	Non-aqueous solvent chromatography. Journal of Chromatography A, 1973, 78, 424-428.	3.7	7
99	Non-aqueous solvent chromatography II. Separation of benzene derivatives in the anion-exchange and n-butyl alcohol system. Journal of Chromatography A, 1972, 72, 187-191.	3.7	14
100	Liquid chromatography of mono-and di-substituted benzene derivatives with anion-exchange resin and ethanol. Bunseki Kagaku, 1971, 20, 427-430.	0.2	5
101	Aluminon as an organic reagent. Bunseki Kagaku, 1968, 17, 482-484.	0.2	0
102	Phenylfluorone as an organic reagent. Bunseki Kagaku, 1968, 17, 86-88.	0.2	3
103	Separation of sugar phosphates on a cellulose ion exchanger. Bunseki Kagaku, 1967, 16, 1244-1248.	0.2	1