

# Tohru Ikegami

## List of Publications by Year in descending order

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54  
papers

4,087  
citations

147726

31  
h-index

175177

52  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolithic silica columns for high-efficiency chromatographic separations. <i>Journal of Chromatography A</i> , 2002, 965, 35-49.	1.8	478
2	Separation efficiencies in hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2008, 1184, 474-503.	1.8	395
3	Monolithic Silica Columns for HPLC, Micro-HPLC, and CEC. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 111-116.	2.0	299
4	Monolithic silica columns with various skeleton sizes and through-pore sizes for capillary liquid chromatography. <i>Journal of Chromatography A</i> , 2002, 961, 53-63.	1.8	270
5	Monolithic silica columns for high-efficiency separations by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2002, 960, 85-96.	1.8	209
6	Deuterium Isotope Effects on Hydrophobic Interactions: The Importance of Dispersion Interactions in the Hydrophobic Phase. <i>Journal of the American Chemical Society</i> , 2003, 125, 13836-13849.	6.6	196
7	Chromatographic characterization of hydrophilic interaction liquid chromatography stationary phases: Hydrophilicity, charge effects, structural selectivity, and separation efficiency. <i>Journal of Chromatography A</i> , 2011, 1218, 5903-5919.	1.8	168
8	Performance of Monolithic Silica Capillary Columns with Increased Phase Ratios and Small-Sized Domains. <i>Analytical Chemistry</i> , 2006, 78, 7632-7642.	3.2	150
9	Simple and Comprehensive Two-Dimensional Reversed-Phase HPLC Using Monolithic Silica Columns. <i>Analytical Chemistry</i> , 2004, 76, 1273-1281.	3.2	139
10	High-Efficiency Liquid Chromatographic Separation Utilizing Long Monolithic Silica Capillary Columns. <i>Analytical Chemistry</i> , 2008, 80, 8741-8750.	3.2	132
11	One-Dimensional Capillary Liquid Chromatographic Separation Coupled with Tandem Mass Spectrometry Unveils the <i>Escherichia coli</i> Proteome on a Microarray Scale. <i>Analytical Chemistry</i> , 2010, 82, 2616-2620.	3.2	131
12	Monolithic columns for high-efficiency HPLC separations. <i>Current Opinion in Chemical Biology</i> , 2004, 8, 527-533.	2.8	96
13	Highly efficient analysis of underivatized carbohydrates using monolithic-silica-based capillary hydrophilic interaction (HILIC) HPLC. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2533-2542.	1.9	96
14	Two-dimensional reversed-phase liquid chromatography using two monolithic silica C18 columns and different mobile phase modifiers in the two dimensions. <i>Journal of Chromatography A</i> , 2006, 1106, 112-117.	1.8	87
15	HILIC mode separation of polar compounds by monolithic silica capillary columns coated with polyacrylamide. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 578-585.	1.9	82
16	Properties of Monolithic Silica Columns for HPLC. <i>Analytical Sciences</i> , 2006, 22, 491-501.	0.8	80
17	Highly efficient monolithic silica capillary columns modified with poly(acrylic acid) for hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2007, 1164, 198-205.	1.8	78
18	The performance of hybrid monolithic silica capillary columns prepared by changing feed ratios of tetramethoxysilane and methyltrimethoxysilane. <i>Journal of Chromatography A</i> , 2010, 1217, 89-98.	1.8	77

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19	Simple 2D-HPLC using a monolithic silica column for peptide separation. <i>Journal of Separation Science</i> , 2004, 27, 897-904.	1.3	74
20	Preparation of high efficiency and highly retentive monolithic silica capillary columns for reversed-phase chromatography by chemical modification by polymerization of octadecyl methacrylate. <i>Journal of Chromatography A</i> , 2007, 1156, 35-44.	1.8	70
21	How to utilize the true performance of monolithic silica columns. <i>Journal of Separation Science</i> , 2004, 27, 1292-1302.	1.3	62
22	Hydrophilic Interaction Chromatography Using a Meter-Scale Monolithic Silica Capillary Column for Proteomics LC-MS. <i>Analytical Chemistry</i> , 2014, 86, 3817-3824.	3.2	54
23	Faster axial band dispersion in a monolithic silica column than in a particle-packed column. <i>Journal of Chromatography A</i> , 2006, 1109, 2-9.	1.8	52
24	Hydrophilic interaction chromatography for the analysis of biopharmaceutical drugs and therapeutic peptides: A review based on the separation characteristics of the hydrophilic interaction chromatography phases. <i>Journal of Separation Science</i> , 2019, 42, 130-213.	1.3	50
25	Estimation and optimization of the peak capacity of one-dimensional gradient high performance liquid chromatography using a long monolithic silica capillary column. <i>Journal of Chromatography A</i> , 2012, 1228, 283-291.	1.8	47
26	Immobilized $\beta$ -cyclodextrin-based silica vs polymer monoliths for chiral nano liquid chromatographic separation of racemates. <i>Talanta</i> , 2015, 132, 301-314.	2.9	43
27	Study of a monolithic silica capillary column coated with poly(octadecyl methacrylate) for the reversed-phase liquid chromatographic separation of some polar and non-polar compounds. <i>Journal of Chromatography A</i> , 2007, 1175, 7-15.	1.8	42
28	Preparation of highly efficient monolithic silica capillary columns for the separations in weak cation-exchange and HILIC modes. <i>Journal of Proteomics</i> , 2007, 70, 31-37.	2.4	41
29	Recent advances in silica-based monoliths: Preparations, characterizations and applications. <i>Journal of Separation Science</i> , 2011, 34, 1945-1957.	1.3	39
30	Recent Progress in Monolithic Silica Columns for High-Speed and High-Selectivity Separations. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 317-342.	2.8	36
31	Effects of Mobile-Phase Composition and Temperature on the Selectivity of Poly(N-isopropylacrylamide)-Bonded Silica Gel in Reversed-Phase Liquid Chromatography. <i>Analytical Chemistry</i> , 1998, 70, 4086-4093.	3.2	34
32	Monolithic silica rod columns for high-efficiency reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 1988-1994.	1.8	32
33	Anion- and Cation-Exchange MicroHPLC Utilizing Poly(methacrylates)-coated Monolithic Silica Capillary Columns. <i>Analytical Sciences</i> , 2007, 23, 109-113.	0.8	26
34	Capillary Electrochromatography on Monolithic Silica Columns. <i>Analytical Sciences</i> , 2002, 18, 89-92.	0.8	25
35	A selective comprehensive reversed-phase—reversed-phase 2D-liquid chromatography approach with multiple complementary detectors as advanced generic method for the quality control of synthetic and therapeutic peptides. <i>Journal of Chromatography A</i> , 2020, 1627, 461430.	1.8	21
36	Improvement of separation efficiencies of anion-exchange chromatography using monolithic silica capillary columns modified with polyacrylates and polymethacrylates containing tertiary amino or quaternary ammonium groups. <i>Journal of Chromatography A</i> , 2009, 1216, 7394-7401.	1.8	18

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37	New silica monolith bonded chiral (R)-butyrolactone for enantioselective micro high-performance liquid chromatography. <i>Chirality</i> , 2011, 23, 887-890.	1.3	17
38	Fragment-based Design of Zwitterionic, Strong Cation- and Weak Anion-Exchange Type Mixed-mode Liquid Chromatography Ligands and their Chromatographic Exploration. <i>Journal of Chromatography A</i> , 2020, 1621, 461075.	1.8	16
39	Field Enhanced Sample Injection for the CE Determination of Arsenic Compounds Using Successive Multiple Ionic Polymer Layer Coated Capillaries. <i>Chromatographia</i> , 2009, 69, 1437-1441.	0.7	14
40	Method optimization of hydrophilic interaction chromatography separation of nucleotides using design of experiment approaches I: Comparison of several zwitterionic columns. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 158, 307-316.	1.4	13
41	Functionalization using polymer or silane? A practical test method to characterize hydrophilic interaction chromatography phases in terms of their functionalization method. <i>Journal of Chromatography A</i> , 2021, 1638, 461850.	1.8	13
42	Anion exchange silica monolith for capillary liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2551-2556.	1.9	12
43	Separation of carbohydrate isomers and anomers on poly-N-(1H-tetrazole-5-yl)-methacrylamide-bonded stationary phase by hydrophilic interaction chromatography as well as determination of anomer interconversion energy barriers. <i>Journal of Chromatography A</i> , 2020, 1620, 460981.	1.8	12
44	Silica monolithic membrane as separation medium. <i>Journal of Chromatography A</i> , 2005, 1073, 123-126.	1.8	9
45	An Application of Silica-Based Monolithic Membrane Emulsification Technique for Easy and Efficient Preparation of Uniformly Sized Polymer Particles. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 753-758.	1.7	9
46	High-performance liquid chromatographic separation of 8-aminopyrene-1,3,6-trisulfonic acid labeled N-glycans using a functional tetrazole hydrophilic interaction liquid chromatography column. <i>Journal of Chromatography A</i> , 2018, 1566, 44-50.	1.8	9
47	The relationship between polymer structures on silica particles and the separation characteristics of the corresponding columns for hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2020, 1618, 460837.	1.8	9
48	Selectivity comparisons of monolithic silica capillary columns modified with poly(octadecyl) Tj ETQqO O O rgBT /Overlock 10 Tf 50 307 T chromatography. <i>Journal of Chromatography A</i> , 2009, 1216, 5868-5874.	1.8	8
49	Retention characteristics of poly(N-(1H-tetrazole-5-yl)-methacrylamide)-bonded stationary phase in hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2020, 1609, 460500.	1.8	8
50	Comparison of the steric selectivity on hydrophilic interaction chromatography columns modified with poly(acrylamide) possessing different morphology. <i>Journal of Chromatography A</i> , 2021, 1650, 462207.	1.8	5
51	MIXED-MODE MONOLITHIC SILICA AS A CHROMATOGRAPHIC SEPARATION MEDIUM. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2011, 34, 500-510.	0.5	3
52	Isolation of Polychlorodibenzo-p-dioxins and Polychlorobiphenyls upon Deproteinization of a Serum Sample by HPLC with Restricted-Access Reversed-Phase Packing Materials. <i>Journal of High Resolution Chromatography</i> , 1999, 22, 287-293.	2.0	1
53	Monolithic Columns in Fast Liquid Chromatography. , 2015, , 57-107.		0
54	Monolithic Columns and Their 2D-HPLC Applications. , 0, , 147-176.		0