

# Mary J Wirth

## List of Publications by Year in descending order

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53  
papers

1,739  
citations

304743

22  
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276875

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55  
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55  
docs citations

55  
times ranked

1507  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-Initiated Radical Polymerization on Porous Silica. <i>Analytical Chemistry</i> , 1997, 69, 4577-4580.	6.5	185
2	Kinetics of Surface-Initiated Atom Transfer Radical Polymerization of Acrylamide on Silica. <i>Macromolecules</i> , 2002, 35, 2919-2925.	4.8	167
3	Chemical Modification of the Surface of Poly(dimethylsiloxane) by Atom-Transfer Radical Polymerization of Acrylamide. <i>Langmuir</i> , 2002, 18, 9971-9976.	3.5	154
4	Surface-Confined Living Radical Polymerization for Coatings in Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1998, 70, 4023-4029.	6.5	131
5	Single-Molecule Probing of Mixed-Mode Adsorption at a Chromatographic Interface. <i>Analytical Chemistry</i> , 1998, 70, 5264-5271.	6.5	86
6	Slip Flow in Colloidal Crystals for Ultraefficient Chromatography. <i>Journal of the American Chemical Society</i> , 2012, 134, 10780-10782.	13.7	79
7	Adsorption and Diffusion of Single Molecules at Chromatographic Interfaces. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6258-6268.	2.6	70
8	Spectroscopic Observation of Adsorption to Active Silanols. <i>Analytical Chemistry</i> , 1999, 71, 3911-3917.	6.5	51
9	Submicrometer Plate Heights for Capillaries Packed with Silica Colloidal Crystals. <i>Analytical Chemistry</i> , 2010, 82, 2175-2177.	6.5	48
10	Slip Flow through Colloidal Crystals of Varying Particle Diameter. <i>ACS Nano</i> , 2013, 7, 725-731.	14.6	47
11	Submicrometer Particles and Slip Flow in Liquid Chromatography. <i>Analytical Chemistry</i> , 2015, 87, 2520-2526.	6.5	43
12	Plate Heights below 50 nm for Protein Electrochromatography Using Silica Colloidal Crystals. <i>Analytical Chemistry</i> , 2010, 82, 10216-10221.	6.5	41
13	Single-Molecule Resolution and Fluorescence Imaging of Mixed-Mode Sorption of a Dye at the Interface of C18 and Acetonitrile/Water. <i>Analytical Chemistry</i> , 2002, 74, 386-393.	6.5	39
14	Polyacrylamide brush layer for hydrophilic interaction liquid chromatography of intact glycoproteins. <i>Journal of Chromatography A</i> , 2013, 1301, 156-161.	3.7	36
15	Single-Molecule Study of an Adsorbed Oligonucleotide Undergoing Both Lateral Diffusion and Strong Adsorption. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1472-1477.	2.6	33
16	Sintered Silica Colloidal Crystals with Fully Hydroxylated Surfaces. <i>Langmuir</i> , 2007, 23, 8554-8559.	3.5	33
17	Lateral Diffusion of 1,1'-Diocetadecyl-3,3'-tetramethylindocarbocyanine Perchlorate at the Interfaces of C18 and Chromatographic Solvents. <i>Analytical Chemistry</i> , 2000, 72, 3725-3730.	6.5	31
18	Native Reversed-Phase Liquid Chromatography: A Technique for LCMS of Intact Antibody-Drug Conjugates. <i>Analytical Chemistry</i> , 2019, 91, 2805-2812.	6.5	31

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19	Fluorescence Imaging of the Desorption of Dye from Fused Silica versus Silica Gel. <i>Analytical Chemistry</i> , 2003, 75, 3073-3078.	6.5	28
20	Protein UTLC-MALDI-MS using thin films of submicrometer silica particles. <i>Journal of Chromatography A</i> , 2011, 1218, 7196-7202.	3.7	23
21	RPLC of Intact Proteins Using Sub-0.5 µm Particles and Commercial Instrumentation. <i>Analytical Chemistry</i> , 2013, 85, 6820-6825.	6.5	23
22	Lateral Diffusion of an Adsorbate at Chromatographic Octadecylsiloxane/Water Interfaces of Varying Hydrocarbon Density. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5545-5548.	2.6	22
23	Insights from theory and experiments on slip flow in chromatography. <i>Journal of Separation Science</i> , 2013, 36, 1871-1876.	2.5	22
24	Self-assembled alkylsilane monolayers for the preparation of stable and efficient coatings in capillary electrophoresis. <i>Journal of Separation Science</i> , 1994, 6, 571-576.	1.0	21
25	Spectroscopic Probing of Mixed-Mode Adsorption of Ru(bpy) <sub>3</sub> <sup>2+</sup> to Silica. <i>Analytical Chemistry</i> , 1996, 68, 4119-4123.	6.5	21
26	Temperature Dependence of the Lateral Diffusion of Acridine Orange at Water/Hydrocarbon Interfaces. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10304-10309.	2.9	21
27	Irreversible Adsorption of Lysozyme to Polishing Marks on Silica. <i>Langmuir</i> , 2000, 16, 7279-7284.	3.5	20
28	Annealing of silica to reduce the concentration of isolated silanols and peak tailing in reverse phase liquid chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 5131-5135.	3.7	20
29	Fundamentals of Protein Separations: 50 Years of Nanotechnology, and Growing. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 833-855.	5.4	19
30	Effect of immobilization on the antimicrobial activity of a cysteine-terminated antimicrobial Peptide Cecropin P1 tethered to silica nanoparticle against E. coli O157:H7 EDL933. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 305-312.	5.0	18
31	Preparation of Mixed C <sub>18</sub> /C <sub>1</sub> Horizontally Polymerized Chromatographic Phases. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1996, 19, 2799-2810.	1.0	17
32	Trajectory of isoelectric focusing from gels to capillaries to immobilized gradients in capillaries. <i>Proteomics</i> , 2012, 12, 2918-2926.	2.2	17
33	Ubiquitin Chains Modified by the Bacterial Ligase SdeA Are Protected from Deubiquitinase Hydrolysis. <i>Biochemistry</i> , 2017, 56, 4762-4766.	2.5	16
34	pH dependence of tailing in reversed-phase chromatography of a cationic dye: measurement of the strong adsorption site surface density. <i>Journal of Chromatography A</i> , 2004, 1060, 127-134.	3.7	15
35	Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography. <i>Journal of Chromatography A</i> , 2004, 1034, 69-75.	3.7	14
36	Modeling of protein electrophoresis in silica colloidal crystals having brush layers of polyacrylamide. <i>Electrophoresis</i> , 2013, 34, 753-760.	2.4	12

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37	Electrostatic Interactions between Ru(bpy) <sub>3</sub> <sup>2+</sup> and Chromatographic Surfaces. <i>Analytical Chemistry</i> , 1997, 69, 2258-2261.	6.5	11
38	Silica Colloidal Crystals as Emerging Materials for High-Throughput Protein Electrophoresis. <i>AAPS Journal</i> , 2013, 15, 962-969.	4.4	9
39	Chromatographic efficiency and selectivity in top-down proteomics of histones. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1044-1045, 47-53.	2.3	8
40	Obstructed Diffusion in Silica Colloidal Crystals. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6244-6249.	2.5	7
41	Making Sharper Peaks for Reverse-Phase Liquid Chromatography of Proteins. <i>Annual Review of Analytical Chemistry</i> , 2020, 13, 363-380.	5.4	7
42	Fluorescent Probes for Monitoring Serine Ubiquitination. <i>Biochemistry</i> , 2020, 59, 1309-1313.	2.5	6
43	Probing Topography and Tailing for Commercial Stationary Phases Using AFM, FT-IR, and HPLC. <i>Analytical Chemistry</i> , 2006, 78, 6457-6464.	6.5	5
44	In-column bonded phase polymerization for improved packing uniformity. <i>Journal of Separation Science</i> , 2017, 40, 2170-2177.	2.5	5
45	Single-Molecule Spectroscopy and Fluorescence Correlation Spectroscopy of the Lateral Transport of the T3 Promoter Primer at a Chemical Interface. <i>Applied Spectroscopy</i> , 2001, 55, 1013-1017.	2.2	4
46	Field-Free Remobilization of Proteins after Isoelectric Focusing in Packed Capillaries. <i>Analytical Chemistry</i> , 2010, 82, 8910-8915.	6.5	4
47	Electrophoresis of megaDalton proteins inside colloidal silica. <i>Electrophoresis</i> , 2019, 40, 817-823.	2.4	4
48	Single Molecule Study of the Lateral Transport of Four Homooligonucleotides at the Interface of Water and Chemically Modified Silica. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8679-8684.	2.6	3
49	Alleviating nonlinear behavior of disulfide isoforms in the reversed-phase liquid chromatography of IgG2. <i>Journal of Chromatography A</i> , 2015, 1410, 147-153.	3.7	3
50	Evaluation of particle and bed integrity of aqueous size-exclusion columns packed with sub-2- $\mu$ m particles operated at high pressure. <i>Journal of Chromatography A</i> , 2020, 1621, 461064.	3.7	3
51	Ultra High Efficiency Protein Separations with Submicrometer Silica Using Slip Flow. <i>LC-GC North America</i> , 2012, 30, 890-897.	0.5	3
52	Reply to Comment on "Submicrometer Plate Heights for Capillaries Packed with Silica Colloidal Crystals". <i>Analytical Chemistry</i> , 2011, 83, 459-459.	6.5	1
53	Protein-induced conformational change in glycans decreases the resolution of glycoproteins in hydrophilic interaction liquid chromatography. <i>Journal of Separation Science</i> , 2021, 44, 1581-1591.	2.5	1