

# Mary J Wirth

## List of Publications by Year in descending order

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53  
papers

1,739  
citations

304743

22  
h-index

276875

41  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1507  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | 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         |
| 2  | Fluorescent Probes for Monitoring Serine Ubiquitination. <i>Biochemistry</i> , 2020, 59, 1309-1313.  | 2.5  | 6         |
| 3  | Making Sharper Peaks for Reverse-Phase Liquid Chromatography of Proteins. <i>Annual Review of Analytical Chemistry</i> , 2020, 13, 363-380.  | 5.4  | 7         |
| 4  | Evaluation of particle and bed integrity of aqueous size-exclusion columns packed with sub-2- $\mu\text{m}$ particles operated at high pressure. <i>Journal of Chromatography A</i> , 2020, 1621, 461064.  | 3.7  | 3         |
| 5  | 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        |
| 6  | Electrophoresis of megaDalton proteins inside colloidal silica. <i>Electrophoresis</i> , 2019, 40, 817-823.  | 2.4  | 4         |
| 7  | 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         |
| 8  | In-column bonded phase polymerization for improved packing uniformity. <i>Journal of Separation Science</i> , 2017, 40, 2170-2177.   | 2.5  | 5         |
| 9  | Effect of immobilization on the antimicrobial activity of a cysteine-terminated antimicrobial Peptide Cecropin P1 tethered to silica nanoparticle against <i>E. coli</i> O157:H7 EDL933. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 305-312. | 5.0  | 18        |
| 10 | Ubiquitin Chains Modified by the Bacterial Ligase SdeA Are Protected from Deubiquitinase Hydrolysis. <i>Biochemistry</i> , 2017, 56, 4762-4766.  | 2.5  | 16        |
| 11 | Submicrometer Particles and Slip Flow in Liquid Chromatography. <i>Analytical Chemistry</i> , 2015, 87, 2520-2526.   | 6.5  | 43        |
| 12 | 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         |
| 13 | Silica Colloidal Crystals as Emerging Materials for High-Throughput Protein Electrophoresis. <i>AAPS Journal</i> , 2013, 15, 962-969.  | 4.4  | 9         |
| 14 | Insights from theory and experiments on slip flow in chromatography. <i>Journal of Separation Science</i> , 2013, 36, 1871-1876.   | 2.5  | 22        |
| 15 | Polyacrylamide brush layer for hydrophilic interaction liquid chromatography of intact glycoproteins. <i>Journal of Chromatography A</i> , 2013, 1301, 156-161.  | 3.7  | 36        |
| 16 | Slip Flow through Colloidal Crystals of Varying Particle Diameter. <i>ACS Nano</i> , 2013, 7, 725-731.   | 14.6 | 47        |
| 17 | Obstructed Diffusion in Silica Colloidal Crystals. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6244-6249.  | 2.5  | 7         |
| 18 | RPLC of Intact Proteins Using Sub-0.5 $\mu\text{m}$ Particles and Commercial Instrumentation. <i>Analytical Chemistry</i> , 2013, 85, 6820-6825.   | 6.5  | 23        |

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|----|---|------|-----------|
| 19 | Modeling of protein electrophoresis in silica colloidal crystals having brush layers of polyacrylamide. <i>Electrophoresis</i> , 2013, 34, 753-760.   | 2.4  | 12        |
| 20 | Trajectory of isoelectric focusing from gels to capillaries to immobilized gradients in capillaries. <i>Proteomics</i> , 2012, 12, 2918-2926.   | 2.2  | 17        |
| 21 | Slip Flow in Colloidal Crystals for Ultraefficient Chromatography. <i>Journal of the American Chemical Society</i> , 2012, 134, 10780-10782.  | 13.7 | 79        |
| 22 | Ultra High Efficiency Protein Separations with Submicrometer Silica Using Slip Flow. <i>LC-GC North America</i> , 2012, 30, 890-897.  | 0.5  | 3         |
| 23 | 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         |
| 24 | Protein UTLC-MALDI-MS using thin films of submicrometer silica particles. <i>Journal of Chromatography A</i> , 2011, 1218, 7196-7202.   | 3.7  | 23        |
| 25 | 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        |
| 26 | Submicrometer Plate Heights for Capillaries Packed with Silica Colloidal Crystals. <i>Analytical Chemistry</i> , 2010, 82, 2175-2177.   | 6.5  | 48        |
| 27 | Field-Free Remobilization of Proteins after Isoelectric Focusing in Packed Capillaries. <i>Analytical Chemistry</i> , 2010, 82, 8910-8915.  | 6.5  | 4         |
| 28 | Plate Heights below 50 nm for Protein Electrochromatography Using Silica Colloidal Crystals. <i>Analytical Chemistry</i> , 2010, 82, 10216-10221.   | 6.5  | 41        |
| 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 | Sintered Silica Colloidal Crystals with Fully Hydroxylated Surfaces. <i>Langmuir</i> , 2007, 23, 8554-8559.   | 3.5  | 33        |
| 31 | 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         |
| 32 | 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        |
| 33 | 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        |
| 34 | Adsorption and Diffusion of Single Molecules at Chromatographic Interfaces. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6258-6268.  | 2.6  | 70        |
| 35 | Fluorescence Imaging of the Desorption of Dye from Fused Silica versus Silica Gel. <i>Analytical Chemistry</i> , 2003, 75, 3073-3078.   | 6.5  | 28        |
| 36 | Kinetics of Surface-Initiated Atom Transfer Radical Polymerization of Acrylamide on Silica. <i>Macromolecules</i> , 2002, 35, 2919-2925.  | 4.8  | 167       |

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|----|---|-----|-----------|
| 37 | 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       |
| 38 | 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        |
| 39 | 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         |
| 40 | 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         |
| 41 | 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        |
| 42 | Lateral Diffusion of 1,1'-Diocetyl-3,3'-tetramethylindocarbocyanine Perchlorate at the Interfaces of C18 and Chromatographic Solvents. <i>Analytical Chemistry</i> , 2000, 72, 3725-3730.             | 6.5 | 31        |
| 43 | Irreversible Adsorption of Lysozyme to Polishing Marks on Silica. <i>Langmuir</i> , 2000, 16, 7279-7284.  | 3.5 | 20        |
| 44 | Spectroscopic Observation of Adsorption to Active Silanols. <i>Analytical Chemistry</i> , 1999, 71, 3911-3917.  | 6.5 | 51        |
| 45 | Surface-Confined Living Radical Polymerization for Coatings in Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1998, 70, 4023-4029.  | 6.5 | 131       |
| 46 | Single-Molecule Probing of Mixed-Mode Adsorption at a Chromatographic Interface. <i>Analytical Chemistry</i> , 1998, 70, 5264-5271.   | 6.5 | 86        |
| 47 | 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        |
| 48 | 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        |
| 49 | Surface-Initiated Radical Polymerization on Porous Silica. <i>Analytical Chemistry</i> , 1997, 69, 4577-4580.   | 6.5 | 185       |
| 50 | 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        |
| 51 | 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        |
| 52 | 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        |
| 53 | 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        |