

David S Roberts

List of Publications by Year in descending order

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17
papers

544
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932766

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docs citations

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times ranked

500
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Novel Strategies to Address the Challenges in Top-Down Proteomics. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1278-1294. | 1.2 | 102 |
| 2 | Top-down proteomics: challenges, innovations, and applications in basic and clinical research. <i>Expert Review of Proteomics</i> , 2020, 17, 719-733. | 1.3 | 70 |
| 3 | MASH Explorer: A Universal Software Environment for Top-Down Proteomics. <i>Journal of Proteome Research</i> , 2020, 19, 3867-3876. | 1.8 | 62 |
| 4 | Structural O-Glycoform Heterogeneity of the SARS-CoV-2 Spike Protein Receptor-Binding Domain Revealed by Top-Down Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2021, 143, 12014-12024. | 6.6 | 48 |
| 5 | Nanoproteomics enables proteoform-resolved analysis of low-abundance proteins in human serum. <i>Nature Communications</i> , 2020, 11, 3903. | 5.8 | 43 |
| 6 | Oriented Nanofibrous Polymer Scaffolds Containing Protein-Loaded Porous Silicon Generated by Spray Nebulization. <i>Advanced Materials</i> , 2018, 30, e1706785. | 11.1 | 38 |
| 7 | Ultrafast and Reproducible Proteomics from Small Amounts of Heart Tissue Enabled by Azo and timsTOF Pro. <i>Journal of Proteome Research</i> , 2021, 20, 4203-4211. | 1.8 | 34 |
| 8 | High-Throughput Multi-attribute Analysis of Antibody-Drug Conjugates Enabled by Trapped Ion Mobility Spectrometry and Top-Down Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 10013-10021. | 3.2 | 29 |
| 9 | Reproducible large-scale synthesis of surface silanized nanoparticles as an enabling nanoproteomics platform: Enrichment of the human heart phosphoproteome. <i>Nano Research</i> , 2019, 12, 1473-1481. | 5.8 | 22 |
| 10 | Discovery of RSV-Induced BRD4 Protein Interactions Using Native Immunoprecipitation and Parallel Accumulation-Serial Fragmentation (PASEF) Mass Spectrometry. <i>Viruses</i> , 2021, 13, 454. | 1.5 | 20 |
| 11 | Functionally Integrated Top-Down Proteomics for Standardized Assessment of Human Induced Pluripotent Stem Cell-Derived Engineered Cardiac Tissues. <i>Journal of Proteome Research</i> , 2021, 20, 1424-1433. | 1.8 | 14 |
| 12 | Preparation of Photoluminescent Porous Silicon Nanoparticles by High-Pressure Microfluidization. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600326. | 1.2 | 10 |
| 13 | Analysis of cardiac troponin proteoforms by top-down mass spectrometry. <i>Methods in Enzymology</i> , 2019, 626, 347-374. | 0.4 | 10 |
| 14 | Multiomics Method Enabled by Sequential Metabolomics and Proteomics for Human Pluripotent Stem-Cell-Derived Cardiomyocytes. <i>Journal of Proteome Research</i> , 2021, 20, 4646-4654. | 1.8 | 10 |
| 15 | Quantum Ensembles of Silicon Nanoparticles: Discrimination of Static and Dynamic Photoluminescence Quenching Processes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17976-17986. | 1.5 | 9 |
| 16 | One-Pot Exosome Proteomics Enabled by a Photocleavable Surfactant. <i>Analytical Chemistry</i> , 2022, 94, 7164-7168. | 3.2 | 9 |
| 17 | Sustainable Coproduction of Two Disinfectants via Hydroxide-Balanced Modular Electrochemical Synthesis Using a Redox Reservoir. <i>ACS Central Science</i> , 2021, 7, 2083-2091. | 5.3 | 7 |