Mary L Kraft

List of Publications by Year
in descending order

47 papers	2,666 citations	279798 23 h-index	289244 40 g-index
51 all docs	51 docs citations	51 times ranked	3993 citing authors

#	Article	IF	Citations
1	Protein corona significantly reduces active targeting yield. Chemical Communications, 2013, 49, 2557.	4.1	321
2	Advances in Imaging Secondary Ion Mass Spectrometry for Biological Samples. Annual Review of Biophysics, 2009, 38, 53-74.	10.0	281
3	Impact of protein pre-coating on the protein corona composition and nanoparticle cellular uptake. Biomaterials, 2016, 75, 295-304.	11.4	256
4	Phase Separation of Lipid Membranes Analyzed with High-Resolution Secondary Ion Mass Spectrometry. Science, 2006, 313, 1948-1951.	12.6	254
5	Direct chemical evidence for sphingolipid domains in the plasma membranes of fibroblasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E613-22.	7.1	184
6	Plasma membrane organization and function: moving past lipid rafts. Molecular Biology of the Cell, 2013, 24, 2765-2768.	2.1	152
7	General Method for Modification of Liposomes for Encoded Assembly on Supported Bilayers. Journal of the American Chemical Society, 2005, 127, 1356-1357.	13.7	146
8	Sphingolipid Domains in the Plasma Membranes of Fibroblasts Are Not Enriched with Cholesterol. Journal of Biological Chemistry, 2013, 288, 16855-16861.	3.4	129
9	The importance of selecting a proper biological milieu for protein corona analysis in vitro: Human plasma versus human serum. International Journal of Biochemistry and Cell Biology, 2016, 75, 188-195.	2.8	112
10	Imaging lipids with secondary ion mass spectrometry. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1108-1119.	2.4	100
11	Sphingolipid Organization in the Plasma Membrane and the Mechanisms That Influence It. Frontiers in Cell and Developmental Biology, 2016, 4, 154.	3.7	76
12	Swelling Kinetics of Disulfide Cross-Linked Microgels. Macromolecules, 2003, 36, 3960-3966.	4.8	68
13	Synchronized Self-Assembly. Science, 2008, 320, 620-621.	12.6	50
14	Supported Membrane Composition Analysis by Secondary Ion Mass Spectrometry with High Lateral Resolution. Biophysical Journal, 2005, 88, 2965-2975.	0.5	49
15	Hemagglutinin Clusters in the Plasma Membrane Are Not Enriched with Cholesterol and Sphingolipids. Biophysical Journal, 2015, 108, 1652-1659.	0.5	48
16	Correlated AFM and NanoSIMS imaging to probe cholesterol-induced changes in phase behavior and non-ideal mixing in ternary lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 307-315.	2.6	42
17	Discriminating and Imaging Different Phosphatidylcholine Species within Phase-Separated Model Membranes by Principal Component Analysis of TOF-Secondary Ion Mass Spectrometry Images. Analytical Chemistry, 2010, 82, 10006-10014.	6.5	40
18	Fluorinated Colloidal Gold Immunolabels for Imaging Select Proteins in Parallel with Lipids Using High-Resolution Secondary Ion Mass Spectrometry. Bioconjugate Chemistry, 2012, 23, 450-460.	3.6	36

#	Article	IF	Citations
19	Quantitative analysis of supported membrane composition using the NanoSIMS. Applied Surface Science, 2006, 252, 6950-6956.	6.1	33
20	Identifying States along the Hematopoietic Stem Cell Differentiation Hierarchy with Single Cell Specificity via Raman Spectroscopy. Analytical Chemistry, 2015, 87, 11317-11324.	6.5	31
21	Identification of a lipidâ€related peak set to enhance the interpretation of TOFâ€SIMS data from model and cellular membranes. Surface and Interface Analysis, 2012, 44, 322-333.	1.8	28
22	Secondary Ion Mass Spectrometry Imaging of Biological Membranes at High Spatial Resolution. Methods in Molecular Biology, 2013, 950, 483-501.	0.9	26
23	Three-dimensional imaging of cholesterol and sphingolipids within a Madin-Darby canine kidney cell. Biointerphases, 2016, 11, 02A309.	1.6	26
24	Identifying Differentiation Stage of Individual Primary Hematopoietic Cells from Mouse Bone Marrow by Multivariate Analysis of TOF-Secondary Ion Mass Spectrometry Data. Analytical Chemistry, 2012, 84, 4307-4313.	6.5	22
25	Secondary ion mass spectrometry and Raman spectroscopy for tissue engineering applications. Current Opinion in Biotechnology, 2015, 31, 108-116.	6.6	20
26	Observation of endoplasmic reticulum tubules via TOF-SIMS tandem mass spectrometry imaging of transfected cells. Biointerphases, 2018, 13, 03B409.	1.6	20
27	High-Resolution Secondary Ion Mass Spectrometry Analysis of Cell Membranes. Analytical Chemistry, 2020, 92, 1645-1652.	6.5	20
28	A new, long-wavelength borondipyrromethene sphingosine for studying sphingolipid dynamics in live cells. Journal of Lipid Research, 2013, 54, 265-275.	4.2	19
29	Tracing Hematopoietic Progenitor Cell Neutrophilic Differentiation via Raman Spectroscopy. Bioconjugate Chemistry, 2018, 29, 3121-3128.	3.6	16
30	Identifying the lineages of individual cells in cocultures by multivariate analysis of Raman spectra. Analyst, The, 2014, 139, 2177-2185.	3.5	13
31	Quantifying the Molar Percentages of Cholesterol in Supported Lipid Membranes by Time-of-Flight Secondary Ion Mass Spectrometry and Multivariate Analysis. Analytical Chemistry, 2013, 85, 91-97.	6.5	10
32	Cholesterol is enriched in the sphingolipid patches on the substrate near nonpolarized MDCK cells, but not in the sphingolipid domains in their plasma membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2004-2011.	2.6	10
33	Visualizing Intrapopulation Hematopoietic Cell Heterogeneity with Self-Organizing Maps of SIMS Data. Tissue Engineering - Part C: Methods, 2018, 24, 322-330.	2.1	6
34	Measurement of Absolute Concentration at the Subcellular Scale. ACS Nano, 2020, 14, 6414-6419.	14.6	5
35	9. Imaging the distributions of lipids and proteins in the plasma membrane with high-resolution secondary ion mass spectrometry. , 2019, , 287-322.		4
36	Depth correction of 3D NanoSIMS images using secondary electron pixel intensities. Biointerphases, 2021, 16, 041005.	1.6	4

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37	Exploring the maturation of a monocytic cell line using self-organizing maps of single-cell Raman spectra. Biointerphases, 2020, 15, 041010.	1.6	3
38	Long, Saturated Chains: Tasty Domains for Kinases of Insulin Resistance. Developmental Cell, 2011, 21, 604-606.	7.0	2
39	Development of an inexpensive Raman-compatible substrate for the construction of a microarray screening platform. Analyst, The, 2020, 145, 7030-7039.	3.5	2
40	High-Resolution Imaging of the Distributions of Cholesterol, Sphingolipids, and Specific Proteins in the Plasma Membrane with Secondary Ion Mass Spectrometry. Microscopy and Microanalysis, 2015, 21, 2397-2398.	0.4	1
41	Probing Lipid Accumulation in Organelles of Interest Using Secondary Ion Mass Spectrometry and Complementary Imaging Techniques. Microscopy and Microanalysis, 2020, 26, 2512-2513.	0.4	1
42	Imaging the Endoplasmic Reticulum within Individual Mammalian Cells with Secondary Ion Mass Spectrometry. Microscopy and Microanalysis, 2018, 24, 1022-1023.	0.4	0
43	Correlated Imaging of Topology and Composition Within Phase-separated Supported Lipid Membranes. Microscopy and Microanalysis, 2020, 26, 1602-1603.	0.4	0
44	Timeâ€dependent changes in long range sphingolipid organization revealed by highâ€resolution secondary ion mass spectrometry. FASEB Journal, 2012, 26, 987.1.	0.5	0
45	Identification of the Differentiation Status of Individual Hematopoietic Cells from Mouse Bone Marrow using Secondary Ion Mass Spectrometry. FASEB Journal, 2012, 26, 579.5.	0.5	0
46	Chemical Imaging of Cholesterol and Sphingolipid Distribution in the Plasma Membranes of Fibroblast Cells. FASEB Journal, 2012, 26, 601.5.	0.5	0
47	Transport and trafficking of fluorescent sphingosine, sphingolipids, and their metabolites. FASEB Journal, 2013, 27, 814.6.	0.5	0