Nicholas Winograd

List of Publications by Year in Descending Order

296 papers	13,036 citations	60 h-index	99 g-index
302 ext. papers	13,644 ext. citations	6 avg, IF	6.43 L-index

#	Paper	IF	Citations
296	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-SIMS). *Angewandte Chemie - International Edition*, **2021**, 60, 11784-11788	16.4	10
295	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-SIMS). *Angewandte Chemie*, **2021**, 133, 11890-11894	3.6	0
294	Multiomics Imaging Using High-Energy Water Gas Cluster Ion Beam Secondary Ion Mass Spectrometry [(HO)-GCIB-SIMS] of Frozen-Hydrated Cells and Tissue. *Analytical Chemistry*, **2021**, 93, 7808-7814	7.8	4
293	Successive High-Resolution (HO)-GCIB and C-SIMS Imaging Integrates Multi-Omics in Different Cell Types in Breast Cancer Tissue. *Analytical Chemistry*, **2021**, 93, 8143-8151	7.8	4
292	Metabolomics and mass spectrometry imaging reveal channeled de novo purine synthesis in cells. *Science*, **2020**, 368, 283-290	33.3	90
291	Secondary-Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. *Angewandte Chemie - International Edition*, **2019**, 58, 3156-3161	16.4	35
290	Ionization probability of sputtered indium under irradiation with 20-keV fullerene and argon gas cluster projectiles. *International Journal of Mass Spectrometry*, **2019**, 438, 13-21	1.9	2
289	Secondary-Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. *Angewandte Chemie*, **2019**, 131, 3188-3193	3.6	19
288	Enhanced Ion Yields Using High Energy Water Cluster Beams for Secondary Ion Mass Spectrometry Analysis and Imaging. *Analytical Chemistry*, **2019**, 91, 9058-9068	7.8	16
287	Molecular SIMS Ionization Probability Studied with Laser Postionization: Influence of the Projectile Cluster. *Journal of Physical Chemistry C*, **2019**, 123, 565-574	3.8	6
286	C-O Bond Dissociation and Induced Chemical Ionization Using High Energy (CO) Gas Cluster Ion Beam. *Journal of the American Society for Mass Spectrometry*, **2019**, 30, 476-481	3.5	5
285	Gas Cluster Ion Beams for Secondary Ion Mass Spectrometry. *Annual Review of Analytical Chemistry*, **2018**, 11, 29-48	12.5	47
284	On the SIMS Ionization Probability of Organic Molecules. *Journal of the American Society for Mass Spectrometry*, **2017**, 28, 1182-1191	3.5	19
283	Ionization Probability in Molecular Secondary Ion Mass Spectrometry: Protonation Efficiency of Sputtered Guanine Molecules Studied by Laser Postionization. *Journal of Physical Chemistry C*, **2017** , 121, 8931-8937	3.8	18
282	Subcellular Chemical Imaging of Antibiotics in Single Bacteria Using C-Secondary Ion Mass Spectrometry. *Analytical Chemistry*, **2017**, 89, 5050-5057	7.8	54
281	Label-free visualization of nilotinib-functionalized gold nanoparticles within single mammalian cells by C- SIMS imaging. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 3067-3076	4.4	8
280	Gas Cluster Ion Beam Time-of-Flight Secondary Ion Mass Spectrometry High-Resolution Imaging of Cardiolipin Speciation in the Brain: Identification of Molecular Losses after Traumatic Injury. *Analytical Chemistry*, **2017**, 89, 4611-4619	7.8	53

279	Effect of SIMS ionization probability on depth resolution for organic/inorganic interfaces. *Surface and Interface Analysis*, **2017**, 49, 933-939	1.5	2
278	Reducing the Matrix Effect in Molecular Secondary Ion Mass Spectrometry by Laser Post-Ionization. *Journal of Physical Chemistry C*, **2017**, 121, 19705-19715	3.8	5
277	Dynamic Reactive Ionization with Cluster Secondary Ion Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*, **2016**, 27, 285-92	3.5	15
276	CO2 Cluster Ion Beam, an Alternative Projectile for Secondary Ion Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*, **2016**, 27, 1476-82	3.5	26
275	Cluster secondary ion mass spectrometry imaging of interfacial reactions of TiO2 microspheres embedded in ionic liquids. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 379-85	2.2	2
274	Multimodal image fusion with SIMS: Preprocessing with image registration. *Biointerphases*, **2016**, 11, 02A311	1.8	7
273	Reduce the matrix effect in biological tissue imaging using dynamic reactive ionization and gas cluster ion beams. *Biointerphases*, **2016**, 11, 02A320	1.8	10
272	The Development of Secondary Ion Mass Spectrometry (SIMS) for Imaging **2016**, 103-112		2
271	Reducing the Matrix Effect in Organic Cluster SIMS Using Dynamic Reactive Ionization. *Journal of the American Society for Mass Spectrometry*, **2016**, 27, 2014-2024	3.5	11
270	Molecular Depth Profiling with Argon Gas Cluster Ion Beams. *Journal of Physical Chemistry C*, **2015**, 119, 15316-15324	3.8	33
269	Measuring Compositions in Organic Depth Profiling: Results from a VAMAS Interlaboratory Study. *Journal of Physical Chemistry B*, **2015**, 119, 10784-97	3.4	46
268	SIMS□A precursor and partner to contemporary mass spectrometry. *International Journal of Mass Spectrometry*, **2015**, 377, 568-579	1.9	41
267	Nanoscale Imaging Mass Spectrometry using Cluster Ion Beams. *Microscopy and Microanalysis*, **2015**, 21, 2391-2392	0.5	
266	Imaging mass spectrometry on the nanoscale with cluster ion beams. *Analytical Chemistry*, **2015**, 87, 328-38	5.8	40
265	Sample preparation for 3D SIMS chemical imaging of cells. *Methods in Molecular Biology*, **2015**, 1203, 9-19	1.4	12
264	C60-SIMS imaging of nanoparticles within mammalian cells. *Biointerphases*, **2015**, 11, 02A306	1.8	7
263	Strong Field Ionization of □Estradiol in the IR: Strategies To Optimize Molecular Postionization in Secondary Neutral Mass Spectrometry. *Journal of Physical Chemistry C*, **2014**, 118, 25534-25544	3.8	13
262	Formation of neutral In(m)C(n) clusters under C60 ion bombardment of indium. *Journal of Physical Chemistry A*, **2014**, 118, 8542-52	2.8	11

261	Application of pan-sharpening to SIMS imaging. *Surface and Interface Analysis*, **2014**, 46, 217-220	1.5	5
260	Near infrared (NIR) strong field ionization and imaging of C$_{60}$ sputtered molecules: overcoming matrix effects and improving sensitivity. *Analytical Chemistry*, **2014**, 86, 8613-20	7.8	14
259	Characterization of hydroxyapatite deposition on biomimetic polyphosphazenes by time-of-flight secondary ion mass spectrometry (ToF-SIMS). *RSC Advances*, **2014**, 4, 19680-19689	3.7	5
258	Improving secondary ion mass spectrometry image quality with image fusion. *Journal of the American Society for Mass Spectrometry*, **2014**, 25, 2154-62	3.5	23
257	Dye-Enhanced imaging of mammalian cells with SIMS. *Surface and Interface Analysis*, **2014**, 46, 177-180	1.5	3
256	Tandem MS and C60 SIMS for the identification and characterization of lipids. *Surface and Interface Analysis*, **2014**, 46, 118-122	1.5	1
255	Investigations Into the Interactions of a MALDI Matrix with Organic Thin Films Using C SIMS Depth Profiling. *Surface and Interface Analysis*, **2014**, 46, 67-69	1.5	1
254	Relative ion yields in mammalian cell components using C SIMS. *Surface and Interface Analysis*, **2014** , 45, 244-247	1.5	5
253	Molecular imaging of biological tissue using gas cluster ions. *Surface and Interface Analysis*, **2014**, 46, 115-117	1.5	12
252	A mixed cluster ion beam to enhance the ionization efficiency in molecular secondary ion mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2014**, 28, 396-400	2.2	38
251	Cluster Secondary Ion Mass Spectrometry **2014**, 71-98		1
250	Investigations of molecular depth profiling with dual beam sputtering. *Surface and Interface Analysis*, **2013**, 45, 175-177	1.5	2
249	C60-ToF SIMS imaging of frozen hydrated HeLa cells. *Surface and Interface Analysis*, **2013**, 45, 302-304	1.5	32
248	Molecular Depth Profiling. *Surface and Interface Analysis*, **2013**, 45, 3-8	1.5	26
247	A statistical interpretation of molecular delta layer depth profiles. *Surface and Interface Analysis*, **2013**, 45, 39-41	1.5	5
246	Mass spectrometry imaging of freeze-dried membrane phospholipids of dividing Tetrahymena pyriformis. *Surface and Interface Analysis*, **2013**, 45, 211-214	1.5	10
245	C(60)-SIMS Studies of Glycerophospholipid in a LIPID MAPS Model System: KDO(2)-Lipid A Stimulated RAW 264.7 Cells. *Surface and Interface Analysis*, **2013**, 45, 298-301	1.5	5
244	An experimental and theoretical view of energetic C cluster bombardment onto molecular solids. *Surface and Interface Analysis*, **2013**, 45, 50-53	1.5	5

243	Temperature Effects of Sputtering of Langmuir-Blodgett Multilayers. *Surface and Interface Analysis*, **2013**, 45, 65-67	1.5	2
242	Quantitative Detection of Purines in Biologically-Relevant Films with TOF-Secondary Ion Mass Spectrometry. *Surface and Interface Analysis*, **2013**, 45, 237-239	1.5	3
241	Evidence for the formation of dynamically created pre-formed ions at the interface of isotopically enriched thin films. *Surface and Interface Analysis*, **2013**, 45, 54	1.5	1
240	Strong-field ionization of C60 sputtered neutral molecules using 1015 W/cm2 of fs IR radiation. *Surface and Interface Analysis*, **2013**, 45, 510-512	1.5	6
239	Single-cell lipidomics: characterizing and imaging lipids on the surface of individual Aplysia californica neurons with cluster secondary ion mass spectrometry. *Analytical Chemistry*, **2013**, 85, 2231-8	7.8	88
238	Depth profiling of metal overlayers on organic substrates with cluster SIMS. *Analytical Chemistry*, **2013**, 85, 10565-72	7.8	10
237	Direct observation of ion distributions near electrodes in ionic polymer actuators containing ionic liquids. *Scientific Reports*, **2013**, 3, 973	4.9	39
236	Argon cluster ion beams for organic depth profiling: results from a VAMAS interlaboratory study. *Analytical Chemistry*, **2012**, 84, 7865-73	7.8	119
235	Cluster secondary ion mass spectrometry and the temperature dependence of molecular depth profiles. *Analytical Chemistry*, **2012**, 84, 3981-9	7.8	10
234	Molecular depth profiling by wedged crater beveling. *Analytical Chemistry*, **2011**, 83, 6410-7	7.8	22
233	Lipid imaging with time-of-flight secondary ion mass spectrometry (ToF-SIMS). *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2011**, 1811, 976-90	5	223
232	Label free biochemical 2D and 3D imaging using secondary ion mass spectrometry. *Current Opinion in Chemical Biology*, **2011**, 15, 733-40	9.7	72
231	Investigating the Fundamentals of Molecular Depth Profiling Using Strong-field Photoionization of Sputtered Neutrals. *Surface and Interface Analysis*, **2011**, 43, 45-48	1.5	9
230	Temperature effects in the sputtering of a molecular solid by energetic atomic and cluster projectiles. *Surface and Interface Analysis*, **2011**, 43, 78	1.5	2
229	Retrospective sputter depth profiling using 3D mass spectral imaging. *Surface and Interface Analysis*, **2011**, 43, 41	1.5	4
228	Characterizing in situ Glycerophospholipids with SIMS and MALDI Methodologies. *Surface and Interface Analysis*, **2011**, 43, 269-271	1.5	25
227	Molecular depth profiling of buried lipid bilayers using C(60)-secondary ion mass spectrometry. *Analytical Chemistry*, **2011**, 83, 351-8	7.8	29
226	Fluid Flow and Effusive Desorption: Dominant Mechanisms of Energy Dissipation after Energetic Cluster Bombardment of Molecular Solids. *Journal of Physical Chemistry Letters*, **2011**, 2, 2009-2014	6.4	22

225	Ion distribution in ionic electroactive polymer actuators **2011**,		1
224	Mass spectrometry imaging of mating Tetrahymena show that changes in cell morphology regulate lipid domain formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 2751-6	11.5	74
223	Molecular depth profiling with cluster secondary ion mass spectrometry and wedges. *Analytical Chemistry*, **2010**, 82, 57-60	7.8	22
222	Strong-field Photoionization of Sputtered Neutral Molecules for Molecular Depth Profiling. *Journal of Physical Chemistry C*, **2010**, 114, 5391-5399	3.8	18
221	Time of flight mass spectrometry imaging of samples fractured in situ with a spring-loaded trap system. *Analytical Chemistry*, **2010**, 82, 6652-9	7.8	33
220	Effects of cryogenic sample analysis on molecular depth profiles with TOF-secondary ion mass spectrometry. *Analytical Chemistry*, **2010**, 82, 8291-9	7.8	38
219	Biological cluster mass spectrometry. *Annual Review of Physical Chemistry*, **2010**, 61, 305-22	15.7	62
218	Molecular sputter depth profiling using carbon cluster beams. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 105-14	4.4	40
217	Nanotome cluster bombardment to recover spatial chemistry after preparation of biological samples for SIMS imaging. *Journal of the American Society for Mass Spectrometry*, **2010**, 21, 833-6	3.5	16
216	Lipid detection, identification, and imaging single cells with SIMS. *Methods in Molecular Biology*, **2010**, 656, 85-97	1.4	14
215	Three-dimensional depth profiling of molecular structures. *Analytical and Bioanalytical Chemistry*, **2009**, 393, 1835-42	4.4	40
214	Strong-field ionization of sputtered molecules for biomolecular imaging. *Chemical Physics Letters*, **2009**, 468, 264-269	2.5	28
213	Internal energy of molecules ejected due to energetic C60 bombardment. *Analytical Chemistry*, **2009**, 81, 2260-7	7.8	50
212	Time-of-flight secondary ion mass spectrometry imaging of subcellular lipid heterogeneity: Poisson counting and spatial resolution. *Analytical Chemistry*, **2009**, 81, 5593-602	7.8	32
211	Molecular dynamics simulations of sputtering of Langmuir-Blodgett multilayers by keV C(60) projectiles. *Journal of Physical Chemistry C*, **2009**, 113, 5641	3.8	14
210	Freeze-etching and vapor matrix deposition for ToF-SIMS imaging of single cells. *Langmuir*, **2008**, 24, 7906-11	4	44
209	Depth resolution during C60+ profiling of multilayer molecular films. *Analytical Chemistry*, **2008**, 80, 7363-71	7.8	48
208	Molecular Depth Profiling using a C(60) Cluster Beam: the Role of Impact Energy. *Journal of Physical Chemistry C*, **2008**, 112, 16550-16555	3.8	33

207	Microscopic Insight into the Sputtering of Thin Polystyrene Films on Ag{111} Induced by Large and Slow Ar Clusters. *Journal of Physical Chemistry C*, **2008**, 112, 521-531	3.8	47
206	MS/MS methodology to improve subcellular mapping of cholesterol using TOF-SIMS. *Analytical Chemistry*, **2008**, 80, 8662-7	7.8	67
205	Label-free optical detection of peptide synthesis on a porous silicon scaffold/sensor. *Langmuir*, **2008**, 24, 2908-15	4	18
204	Energy deposition during molecular depth profiling experiments with cluster ion beams. *Analytical Chemistry*, **2008**, 80, 5293-301	7.8	54
203	C60 secondary ion mass spectrometry with a hybrid-quadrupole orthogonal time-of-flight mass spectrometer. *Analytical Chemistry*, **2008**, 80, 7921-9	7.8	108
202	Short-chain alcohols promote accelerated membrane distention in a dynamic liposome model of exocytosis. *Langmuir*, **2008**, 24, 2637-42	4	7
201	Mass spectral imaging of glycophospholipids, cholesterol, and glycophorin a in model cell membranes. *Langmuir*, **2008**, 24, 11803-10	4	31
200	Molecular dynamics simulations of sputtering of organic overlayers by slow, large clusters. *Applied Surface Science*, **2008**, 255, 841-843	6.7	11
199	Angle of incidence effects in a molecular solid. *Applied Surface Science*, **2008**, 255, 844-846	6.7	23
198	Molecular depth profiling of trehalose using a C60 cluster ion beam. *Applied Surface Science*, **2008**, 255, 959-961	6.7	20
197	The effect of incident angle on the C(60) bombardment of molecular solids. *Applied Surface Science*, **2008**, 255, 1068-1070	6.7	28
196	Inhibition of HMG CoA reductase reveals an unexpected role for cholesterol during PGC migration in the mouse. *BMC Developmental Biology*, **2008**, 8, 120	3.1	18
195	Chemically alternating Langmuir-Blodgett thin films as a model for molecular depth profiling by mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **2008**, 19, 96-102	3.5	37
194	Relative Quantification of Cellular Sections with Molecular Depth Profiling ToF-SIMS Imaging. *Applied Surface Science*, **2008**, 255, 1158-1161	6.7	10
193	Which is more important in bioimaging SIMS experiments-The sample preparation or the nature of the projectile?. *Applied Surface Science*, **2008**, 255, 1298-1304	6.7	27
192	Biological tissue imaging with a hybrid cluster SIMS quadrupole time-of-flight mass spectrometer. *Applied Surface Science*, **2008**, 255, 1572-1575	6.7	20
191	Cluster SIMS with a hybrid quadrupole time-of-flight mass spectrometer. *Applied Surface Science*, **2008**, 255, 1610-1613	6.7	16
190	Fundamental studies of molecular depth profiling and 3D imaging using Langmuir-Blodgett films as a model. *Applied Surface Science*, **2008**, 255, 816-818	6.7	14

189	Investigating lipid-lipid and lipid-protein interactions in model membranes by ToF-SIMS. *Applied Surface Science*, **2008**, 255, 1190-1192	6.7	14
188	Controlling energy deposition during the C60+ bombardment of silicon: The effect of incident angle geometry. *Applied Surface Science*, **2008**, 255, 886-889	6.7	15
187	Molecular depth profiling and imaging using cluster ion beams with femtosecond laser postionization. *Applied Surface Science*, **2008**, 255, 831-833	6.7	20
186	Three-dimensional molecular imaging using mass spectrometry and atomic force microscopy. *Applied Surface Science*, **2008**, 255, 984-986	6.7	24
185	Imaging macrophages in trehalose with SIMS. *Applied Surface Science*, **2008**, 255, 929-933	6.7	9
184	Single-Cell Level Mass Spectrometric Imaging **2008**, 4046-4056		
183	Effect of cluster size in kiloelectronvolt cluster bombardment of solid benzene. *Analytical Chemistry*, **2007**, 79, 494-9	7.8	45
182	Protocols for three-dimensional molecular imaging using mass spectrometry. *Analytical Chemistry*, **2007**, 79, 5529-39	7.8	97
181	Localization of sphingomyelin in cholesterol domains by imaging mass spectrometry. *Langmuir*, **2007**, 23, 5645-50	4	48
180	Dynamics of Interaction of Magnesium Atoms on Methoxy-Terminated Self-Assembled Monolayers: An Example of a Reactive Metal with a Low Sticking Probability. *Journal of Physical Chemistry C*, **2007**, 111, 765-772	3.8	24
179	Sputtering yields for C60 and Au3 bombardment of water ice as a function of incident kinetic energy. *Analytical Chemistry*, **2007**, 79, 4493-8	7.8	64
178	Sphingomyelin/phosphatidylcholine and cholesterol interactions studied by imaging mass spectrometry. *Journal of the American Chemical Society*, **2007**, 129, 15730-1	16.4	71
177	The regulation of integrin-mediated osteoblast focal adhesion and focal adhesion kinase expression by nanoscale topography. *Biomaterials*, **2007**, 28, 1787-97	15.6	204
176	Direct comparison of Au(3)(+) and C(60)(+) cluster projectiles in SIMS molecular depth profiling. *Journal of the American Society for Mass Spectrometry*, **2007**, 18, 406-12	3.5	56
175	Secondary ion MS imaging to relatively quantify cholesterol in the membranes of individual cells from differentially treated populations. *Analytical Chemistry*, **2007**, 79, 3554-60	7.8	91
174	Role of low-level impurities and intercalated molecular gases in the particle radiolysis of polytetrafluoroethylene examined by static time-of-flight secondary-ion-mass spectrometery. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2006**, 24, 1166-1171	2.9	1
173	Surface sensitivity in cluster-ion-induced sputtering. *Physical Review Letters*, **2006**, 96, 216104	7.4	52
172	Metal nanoparticle deposition for TOF-SIMS signal enhancement of polymers. *Analytical Chemistry*, **2006**, 78, 141-8	7.8	41

171	Spectroscopically encoded resins for high throughput imaging time-of-flight secondary ion mass spectrometry. *ACS Combinatorial Science*, **2006**, 8, 18-25		16
170	TOF-SIMS evidence of intercalated molecular gases and diffusion-limited reaction kinetics in an alpha particle-irradiated PTFE matrix. *Journal of Physical Chemistry B*, **2006**, 110, 1820-9	3.4	5
169	Controlling gold atom penetration through alkanethiolate self-assembled monolayers on Au{111} by adjusting terminal group intermolecular interactions. *Journal of the American Chemical Society*, **2006**, 128, 13710-9	16.4	58
168	Molecular depth profiling with cluster ion beams. *Journal of Physical Chemistry B*, **2006**, 110, 8329-36	3.4	173
167	Surface and depth profiling investigation of a drug-loaded copolymer utilized to coat taxus express2 stents. *Analytical Chemistry*, **2006**, 78, 8347-53	7.8	36
166	Looking at surfaces with cluster ion beams. *Materials Today*, **2006**, 9, 50-51	21.8	1
165	Mechanical properties and the evolution of matrix molecules in PTFE upon irradiation with MeV alpha particles. *Applied Surface Science*, **2006**, 253, 1330-1342	6.7	14
164	Depth profiling of taxol-loaded poly(styrene-b-isobutylene-b-styrene) using Ga+ and C60+ ion beams. *Applied Surface Science*, **2006**, 252, 6615-6618	6.7	13
163	Coarse-grained molecular dynamics studies of cluster-bombarded benzene crystals. *Applied Surface Science*, **2006**, 252, 6436-6439	6.7	51
162	Chemistry of metal atoms reacting with alkanethiol self-assembled monolayers. *Applied Surface Science*, **2006**, 252, 6686-6688	6.7	21
161	Improvements in SIMS continue: Is the end in sight?. *Applied Surface Science*, **2006**, 252, 6836-6843	6.7	64
160	Sputtering of thin benzene and polystyrene overlayers by keV Ga and C60 bombardment. *Applied Surface Science*, **2006**, 252, 6419-6422	6.7	21
159	Molecular depth profiling of multi-layer systems with cluster ion sources. *Applied Surface Science*, **2006**, 252, 6498-6501	6.7	32
158	Fundamental studies of the cluster ion bombardment of water ice. *Applied Surface Science*, **2006**, 252, 6526-6528	6.7	14
157	Model multilayer structures for three-dimensional cell imaging. *Applied Surface Science*, **2006**, 252, 6789-6792	6.7	23
156	Investigating lipid interactions and the process of raft formation in cellular membranes using ToF-SIMS. *Applied Surface Science*, **2006**, 252, 6716-6718	6.7	20
155	Desorption of organic overlayers by Ga and C60 bombardment. *Vacuum*, **2006**, 81, 167-173	3.7	32
154	Osteoblast adhesion on poly(L-lactic acid)/polystyrene demixed thin film blends: effect of nanotopography, surface chemistry, and wettability. *Biomacromolecules*, **2005**, 6, 3319-27	6.9	120

153	The Magic of Cluster SIMS. *Analytical Chemistry*, **2005**, 77, 142 A-149 A	7.8	423
152	Lateral heterogeneity of dipalmitoylphosphatidylethanolamine-cholesterol Langmuir-Blodgett films investigated with imaging time-of-flight secondary ion mass spectrometry and atomic force microscopy. *Langmuir*, **2005**, 21, 807-13	4	41
151	Evolution of the interface and metal film morphology in the vapor deposition of Ti on hexadecanethiolate hydrocarbon monolayers on Au. *Journal of Physical Chemistry B*, **2005**, 109, 21006-14	3.4	23
150	Secondary ion MS imaging of lipids in picoliter vials with a buckminsterfullerene ion source. *Analytical Chemistry*, **2005**, 77, 6190-6	7.8	61
149	Microscopic insights into the sputtering of thin organic films on Ag{111} induced by C60 and Ga bombardment. *Journal of Physical Chemistry B*, **2005**, 109, 11973-9	3.4	85
148	Chemical pathways in the interactions of reactive metal atoms with organic surfaces: vapor deposition of Ca and Ti on a methoxy-terminated alkanethiolate monolayer on Au. *Journal of Physical Chemistry B*, **2005**, 109, 11263-72	3.4	48
147	High-resolution TOF-SIMS imaging of eukaryotic cells preserved in a trehalose matrix. *Analytical Chemistry*, **2005**, 77, 7950-7	7.8	65
146	Modification and stability of aromatic self-assembled monolayers upon irradiation with energetic particles. *Journal of Physical Chemistry B*, **2005**, 109, 5085-94	3.4	30
145	Depth profiling of peptide films with TOF-SIMS and a C60 probe. *Analytical Chemistry*, **2005**, 77, 3651-9	7.8	150
144	Energetic ion bombardment of Ag surfaces by C60+ and Ga+ projectiles. *Journal of the American Society for Mass Spectrometry*, **2005**, 16, 1677-86	3.5	26
143	Phosphatidylethanolamine-induced cholesterol domains chemically identified with mass spectrometric imaging. *Journal of the American Chemical Society*, **2004**, 126, 13882-3	16.4	50
142	Use of C60 cluster projectiles for sputter depth profiling of polycrystalline metals. *Surface and Interface Analysis*, **2004**, 36, 1367-1372	1.5	55
141	Emission of ionic water clusters from water ice films bombarded by energetic projectiles. *Applied Surface Science*, **2004**, 231-232, 72-77	6.7	14
140	ToF-SIMS imaging with cluster ion beams. *Applied Surface Science*, **2004**, 231-232, 159-163	6.7	33
139	Interaction of vapor-deposited Ti and Au with molecular wires. *Applied Physics Letters*, **2004**, 84, 4008-4010	3.4	74
138	Depth profiling of polycrystalline multilayers using aBuckminsterfullerene projectile. *Applied Physics Letters*, **2004**, 84, 5177-5179	3.4	43
137	Depth profiling of Langmuir-Blodgett films with a buckminsterfullerene probe. *Analytical Chemistry* , **2004**, 76, 6651-8	7.8	50
136	Molecule-specific imaging with mass spectrometry and a buckminsterfullerene probe: application to characterizing solid-phase synthesized combinatorial libraries. *Journal of the American Chemical Society*, **2004**, 126, 3902-9	16.4	43

135	Microscopic Insights into the Sputtering of Ag{111} Induced by C60 and Ga Bombardment. *Journal of Physical Chemistry B*, **2004**, 108, 7831-7838	3.4	174
134	Influence of molecular environment on the analysis of phospholipids by time-of-flight secondary ion mass spectrometry. *Langmuir*, **2004**, 20, 4926-32	4	48
133	Internal Excitation Mechanisms of Neutral Atoms and Molecules Emitted from Ion Bombarded Organic Thin Films. *Journal of Physical Chemistry B*, **2004**, 108, 15686-15693	3.4	4
132	Ion Emission from Water Ice Due to Energetic Particle Bombardment *Journal of Physical Chemistry A*, **2004**, 108, 2993-2998	2.8	24
131	Mass spectrometric imaging of highly curved membranes during Tetrahymena mating. *Science*, **2004**, 305, 71-3	33.3	300
130	The dynamics of noble metal atom penetration through methoxy-terminated alkanethiolate monolayers. *Journal of the American Chemical Society*, **2004**, 126, 3954-63	16.4	156
129	Molecular depth profiling of histamine in ice using a buckminsterfullerene probe. *Analytical Chemistry*, **2004**, 76, 7234-42	7.8	81
128	Solvation of zero-valent metals in organic thin films. *Chemical Physics Letters*, **2003**, 369, 615-620	2.5	23
127	Prospects for imaging with TOF-SIMS using gold liquid metal ion sources. *Applied Surface Science*, **2003**, 203-204, 198-200	6.7	30
126	Rapid screening of molecular arrays using imaging TOF-SIMS. *Applied Surface Science*, **2003**, 203-204, 201-204	6.7	3
125	Prospects for imaging TOF-SIMS: from fundamentals to biotechnology. *Applied Surface Science*, **2003**, 203-204, 13-19	6.7	28
124	Substrate-Assisted Laser-Initiated Ejection of Proteins Embedded in Water Films. *Journal of Physical Chemistry B*, **2003**, 107, 2362-2365	3.4	37
123	Laser desorption and imaging of proteins from ice via UV femtosecond laser pulses. *Analytical Chemistry*, **2003**, 75, 5146-51	7.8	29
122	Proton transfer in time-of-flight secondary ion mass spectrometry studies of frozen-hydrated dipalmitoylphosphatidylcholine. *Analytical Chemistry*, **2003**, 75, 4087-94	7.8	53
121	Enhancement of sputtering yields due to C60 versus Ga bombardment of Ag[111] as explored by molecular dynamics simulations. *Analytical Chemistry*, **2003**, 75, 4402-7	7.8	177
120	Applicability of imaging time-of flight secondary ion MS to the characterization of solid-phase synthesized combinatorial libraries. *Analytical Chemistry*, **2003**, 75, 6155-62	7.8	6
119	Identification of cellular sections with imaging mass spectrometry following freeze fracture. *Analytical Chemistry*, **2002**, 74, 4020-6	7.8	72
118	Imaging of freeze-fractured cells with in situ fluorescence and time-of-flight secondary ion mass spectrometry. *Analytical Chemistry*, **2002**, 74, 4011-9	7.8	80

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