

Emile Albert Schweikert

List of Publications by Year in descending order

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221
papers

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citations

279798

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229
all docs

229
docs citations

229
times ranked

2126
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Phosphate Phase Identification Using XPS and Time-of-Flight Cluster SIMS. Analytical Chemistry, 1999, 71, 149-153.	6.5	191
2	Impact of slow gold clusters on various solids: nonlinear effects in secondary ion emission. Nuclear Instruments & Methods in Physics Research B, 1991, 62, 8-22.	1.4	174
3	The influence of surface chemistry on the kinetics and thermodynamics of bacterial adhesion. Scientific Reports, 2018, 8, 17247.	3.3	124
4	Secondary-ion yields from surfaces bombarded with keV molecular and cluster ions. Physical Review Letters, 1989, 63, 1625-1628.	7.8	121
5	Nanoscope Cylindrical Dual Concentric and Lengthwise Block Brush Terpolymers as Covalent Preassembled High-Resolution and High-Sensitivity Negative-Tone Photoresist Materials. Journal of the American Chemical Society, 2013, 135, 4203-4206.	13.7	104
6	Coincidence Counting in Time-of-Flight Mass Spectrometry: A Test for Chemical Microhomogeneity. Science, 1990, 248, 988-990.	12.6	57
7	Charged particle activation of medium Z elements. Journal of Radioanalytical Chemistry, 1976, 31, 437-450.	0.5	53
8	Micropatterning of Proteins and Mammalian Cells on Indium Tin Oxide. ACS Applied Materials & Interfaces, 2009, 1, 2592-2601.	8.0	52
9	Noradrenaline-Functionalized Hyperbranched Fluoropolymer-Poly(ethylene glycol) Cross-Linked Networks As Dual-Mode, Anti-Biofouling Coatings. ACS Nano, 2012, 6, 1503-1512.	14.6	52
10	Kiloelectron volt cluster impacts: prospects for cluster-SIMS. International Journal of Mass Spectrometry and Ion Processes, 1998, 174, 167-177.	1.8	48
11	Solid-Liquid Adsorption of Calcium Phosphate on TiO ₂ . Langmuir, 1999, 15, 7355-7360.	3.5	45
12	Exercising Spatiotemporal Control of Cell Attachment with Optically Transparent Microelectrodes. Langmuir, 2008, 24, 6837-6844.	3.5	40
13	Ultratrace determination of oxygen and carbon by charged particle activation analysis. Analytical Chemistry, 1969, 41, 958-963.	6.5	36
14	Nondestructive determination of some trace elements in tantalum by proton activation analysis. Analytical Chemistry, 1974, 46, 1626-1629.	6.5	36
15	Targeted surface nanocomplexity: two-dimensional control over the composition, physical properties and anti-biofouling performance of hyperbranched fluoropolymer-poly(ethylene glycol) amphiphilic crosslinked networks. Polymer Chemistry, 2012, 3, 3121.	3.9	36
16	Methodology and application of the nuclear resonance reaction $^{16}\text{O}(\pm, \pm)^{16}\text{O}$ for the profiling of titanium oxide. Nuclear Instruments & Methods in Physics Research B, 1988, 35, 159-166.	1.4	34
17	Effectiveness of atomic and polyatomic primary ions for organic secondary ion mass spectrometry. International Journal of Mass Spectrometry, 2001, 207, 111-122.	1.5	28
18	Single Impacts of C_{60} on Solids: Emission of Electrons, Ions and Prospects for Surface Mapping. Journal of Physical Chemistry C, 2010, 114, 5637-5644.	3.1	27

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19	Analysis of Native Biological Surfaces Using a 100 kV Massive Gold Cluster Source. Analytical Chemistry, 2011, 83, 8448-8453.	6.5	27
20	Determination of lithium, boron, and carbon by quasi-prompt charged particle activation analysis. Analytical Chemistry, 1975, 47, 2403-2407.	6.5	26
21	Secondary ion yields produced by keV atomic and polyatomic ion impacts on a self-assembled monolayer surface. , 1999, 13, 1374-1380.		26
22	Characterization and quantification of nanoparticle-antibody conjugates on cells using C60 ToF SIMS in the event-by-event bombardment/detection mode. International Journal of Mass Spectrometry, 2011, 303, 97-102.	1.5	25
23	Preventing adhesion of Escherichia coli O157:H7 and Salmonella Typhimurium LT2 on tomato surfaces via ultrathin polyethylene glycol film. International Journal of Food Microbiology, 2014, 185, 73-81.	4.7	25
24	Nondestructive charged particle activation analysis using short-lived nuclides. Analytical Chemistry, 1972, 44, 1386-1391.	6.5	24
25	Comparison of nondestructive proton and neutron activation: The case of biological samples. Journal of Radioanalytical Chemistry, 1977, 37, 571-580.	0.5	24
26	The use of glass substrates with bi-functional silanes for designing micropatterned cell-secreted cytokine immunoassays. Biomaterials, 2011, 32, 5478-5488.	11.4	24
27	Hydrogen and deuterium analysis by heavy ion activation. Journal of Radioanalytical Chemistry, 1977, 37, 275-283.	0.5	23
28	Compact time-of-flight mass spectrometer using particle-induced desorption. Review of Scientific Instruments, 1986, 57, 692-694.	1.3	23
29	Surface characterization with keV clusters and MeV ions. Nuclear Instruments & Methods in Physics Research B, 1990, 50, 307-313.	1.4	22
30	Nanovolume Analysis with Secondary Ion Mass Spectrometry Using Massive Projectiles. Analytical Chemistry, 2006, 78, 7410-7416.	6.5	22
31	Secondary ion mass spectrometry with C60+ and Au4004+ projectiles: Depth and nature of secondary ion emission from multilayer assemblies. International Journal of Mass Spectrometry, 2008, 269, 112-117.	1.5	22
32	Determination of oxygen in silicon in the sub-part-per-million range by charged-particle activation analysis. Analytical Chemistry, 1970, 42, 1525-1527.	6.5	21
33	Matrix-enhanced cluster-SIMS. Applied Surface Science, 2006, 252, 6624-6627.	6.1	21
34	Characterization of Individual Nano-Objects by Secondary Ion Mass Spectrometry. Analytical Chemistry, 2008, 80, 9052-9057.	6.5	21
35	The Pegase project, a new solid surface probe: focused massive cluster ion beams. Surface and Interface Analysis, 2011, 43, 66-69.	1.8	21
36	Chemical etching procedure used to remove surface oxygen contamination in charged-particle activation analysis. Analytical Chemistry, 1968, 40, 1194-1196.	6.5	20

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37	Time-of-flight-secondary ion mass spectrometry of NaBF ₄ : a comparison of atomic and polyatomic primary ions at constant impact energy. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1794-1798.	1.5	20
38	Multi-ion emission from large and massive keV cluster impacts. <i>International Journal of Mass Spectrometry</i> , 2005, 245, 48-52.	1.5	20
39	Characterization of Individual Ag Nanoparticles and Their Chemical Environment. <i>Analytical Chemistry</i> , 2009, 81, 1089-1094.	6.5	20
40	Directing Self-Assembly of Nanoscopic Cylindrical Diblock Brush Terpolymers into Films with Desired Spatial Orientations: Expansion of Chemical Composition Scope. <i>Macromolecular Rapid Communications</i> , 2014, 35, 437-441.	3.9	20
41	Multielement charged particle activation analysis with x-ray counting. <i>Analytical Chemistry</i> , 1976, 48, 429-435.	6.5	19
42	Analysis of polystyrene/PVME blends by coincidence counting time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 1992, 64, 843-847.	6.5	18
43	Size-dependent emission of negative ions from gold nanoparticles bombarded with C ₆₀ and Au ₄₀₀ . <i>International Journal of Mass Spectrometry</i> , 2013, 334, 43-48.	1.5	18
44	Trace elemental analysis by heavy ion induced x-ray emission. <i>Analytical Chemistry</i> , 1976, 48, 2124-2129.	6.5	17
45	Multiple secondary ion emission from keV massive gold projectile impacts. <i>International Journal of Mass Spectrometry</i> , 2005, 241, 57-61.	1.5	17
46	Influence of massive projectile size and energy on secondary ion yields from organic surfaces. <i>Applied Surface Science</i> , 2006, 252, 6529-6532.	6.1	17
47	Molecular ion emission from single large cluster impacts. <i>Applied Surface Science</i> , 2006, 252, 6490-6493.	6.1	17
48	Examination of Nanoparticles via Single Large Cluster Impacts. <i>Nano Letters</i> , 2008, 8, 1076-1080.	9.1	17
49	Measuring the internal energies of species emitted from hypervelocity nanoparticle impacts on surfaces using recalibrated benzylpyridinium probe ions. <i>Journal of Chemical Physics</i> , 2013, 138, 214301.	3.0	17
50	Single impacts of keV fullerene ions on free standing graphene: Emission of ions and electrons from confined volume. <i>Journal of Chemical Physics</i> , 2015, 143, 164302.	3.0	17
51	Hypervelocity nanoparticle impacts on free-standing graphene: A sui generis mode of sputtering. <i>Journal of Chemical Physics</i> , 2015, 142, 044308.	3.0	17
52	Testing Molecular Homogeneity at the Nanoscale with Massive Cluster Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 7639-7646.	6.5	17
53	On the determination of sulfur by charged particle activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1973, 16, 375-383.	0.5	16
54	A new experimental method for determining secondary ion yields from surfaces bombarded by complex heterogeneous ions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 2265-2268.	2.1	16

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55	Surface structure investigations using plasma desorption mass spectrometry and coincidence counting. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 128, 133-141.	1.8	16
56	Negative secondary ion emission from NaBF ₄ : comparison of atomic and polyatomic projectiles at different impact energies. <i>Journal of Mass Spectrometry</i> , 1999, 34, 554-562.	1.6	16
57	Label Free Particle-by-Particle Quantification of DNA Loading on Sorted Gold Nanostars. <i>Analytical Chemistry</i> , 2019, 91, 5566-5572.	6.5	16
58	Quantitative Label-Free Characterization of Avidin-Biotin Assemblies on Silanized Glass. <i>Analytical Chemistry</i> , 2011, 83, 7173-7178.	6.5	15
59	High energy heavy-ion induced X-ray emission analysis. <i>Nuclear Instruments & Methods</i> , 1977, 142, 111-119.	1.2	14
60	On the origin of hydrogen clusters produced by particle induced desorption. <i>Journal of Chemical Physics</i> , 1988, 89, 6708-6712.	3.0	14
61	Characterization of Photooxidized Self-Assembled Monolayers and Bilayers by Spontaneous Desorption Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 5973-5980.	6.5	14
62	Surface Mass Spectrometry at the Submicrometer Scale. <i>Langmuir</i> , 2002, 18, 8836-8840.	3.5	14
63	Prompt in situ emission of gold adducts from single impacts of large gold clusters on organics solids. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 298-303.	1.5	14
64	A rapid method for assaying sulfur using proton activation analysis. <i>Nuclear Instruments & Methods</i> , 1972, 99, 461-467.	1.2	13
65	Charged particle activation analysis coupled with X-ray counting. <i>Journal of Radioanalytical Chemistry</i> , 1973, 16, 385-394.	0.5	13
66	High energy chemistry caused by fast ion-solid interactions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 96, 530-535.	1.4	13
67	Matrix Effects on the Fragmentation of Vitamin B12 in Plasma Desorption Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 143-147.	1.5	13
68	Secondary ion emission from keV energy atomic and polyatomic projectile impacts on sodium iodate. <i>International Journal of Mass Spectrometry</i> , 2000, 197, 149-161.	1.5	13
69	SIMS of Organic Anions Adsorbed onto an Aminoethanethiol Self-Assembled Monolayer: An Approach for Enhanced Secondary Ion Emission. <i>Analytical Chemistry</i> , 2000, 72, 2618-2626.	6.5	13
70	Cluster secondary ion mass spectrometry: an insight into "super-efficient" collision cascades. <i>Applied Surface Science</i> , 2004, 231-232, 54-58.	6.1	13
71	Molecular Identification of Individual Nano-Objects. <i>Analytical Chemistry</i> , 2009, 81, 7527-7531.	6.5	13
72	Fluoropolymer-diluted small molecule organic semiconductors with extreme thermal stability. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	13

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73	Nanoprojectile Secondary Ion Mass Spectrometry for Analysis of Extracellular Vesicles. <i>Analytical Chemistry</i> , 2021, 93, 7481-7490.	6.5	13
74	Nanoparticle-Enabled Multiplexed Electrochemical Immunoassay for Detection of Surface Proteins on Extracellular Vesicles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52321-52332.	8.0	13
75	Determination of zinc and nickel by charged particle activation analysis. <i>Analytical Chemistry</i> , 1973, 45, 2111-2115.	6.5	12
76	Coincidence counting for the study of hydrocarbon ion desorption in plasma desorption mass spectrometry. <i>Journal of Chemical Physics</i> , 1992, 96, 3206-3210.	3.0	12
77	Multiplicity analysis: a study of secondary particle distribution and correlation. <i>Surface Science</i> , 1998, 408, 28-42.	1.9	12
78	Massive clusters: Secondary emission from qkeV to qMeV. New emission processes? New SIMS probe?. <i>Surface and Interface Analysis</i> , 2011, 43, 62-65.	1.8	12
79	Advanced photoresist technologies by intricate molecular brush architectures: Diblock brush terpolymer-based positive-tone photoresist materials. <i>Journal of Polymer Science Part A</i> , 2015, 53, 193-199.	2.3	12
80	Alpha activation of calcium and its possible use for analysis. <i>Journal of Radioanalytical Chemistry</i> , 1971, 7, 319-327.	0.5	11
81	On the application of charged particle activation analysis to the trace characterization of semiconductor materials. <i>Journal of Radioanalytical Chemistry</i> , 1974, 19, 89-108.	0.5	11
82	Nuclear and atomic activation with heavy ion beams. <i>Journal of Radioanalytical Chemistry</i> , 1978, 43, 559-573.	0.5	11
83	Studies in heavy ion activation analysis I. on the selection of activation reactions. <i>Journal of Radioanalytical Chemistry</i> , 1979, 53, 173-180.	0.5	11
84	Emission of molecular fragments synthesized in hypervelocity nanoparticle impacts. <i>International Journal of Mass Spectrometry</i> , 2008, 275, 86-90.	1.5	11
85	Characterization and quantification of biological micropatterns using cluster SIMS. <i>Surface and Interface Analysis</i> , 2011, 43, 555-558.	1.8	11
86	Electrochemical release of hepatocyte-on-hydrogel microstructures from ITO substrates. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1847-1856.	3.7	11
87	Metal-assisted SIMS with hypervelocity gold cluster projectiles. <i>International Journal of Mass Spectrometry</i> , 2013, 343-344, 28-36.	1.5	11
88	The collision of a hypervelocity massive projectile with free-standing graphene: Investigation of secondary ion emission and projectile fragmentation. <i>Journal of Chemical Physics</i> , 2017, 146, 054305.	3.0	11
89	Molecular Colocalization Using Massive Gold Cluster Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 12692-12697.	6.5	11
90	Determination of iron in glass and cobalt via charged particle activation analysis. <i>Analytical Chemistry</i> , 1974, 46, 655-658.	6.5	10

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91	Activation analysis opportunities using a $5\text{A}\cdot 10^{12}$ to $5\text{A}\cdot 10^{13}$ n/sec ^{14}MeV generator. Journal of Radioanalytical Chemistry, 1977, 37, 307-312.	0.5	10
92	On the determination of carbon and oxygen impurities in silicon by ^3He activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 1984, 81, 125-129.	1.5	10
93	Fingerprinting of polymer surfaces with $\text{Cf}\cdot 252$ particle desorption mass spectrometry. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 946-949.	2.1	10
94	A coincidence counting study of polyatomic ion induced sputtering. Journal of Chemical Physics, 1992, 96, 8171-8176.	3.0	10
95	Carbon-cluster formation from polymers caused by MeV-ion impacts and keV-cluster-ion impacts. Physical Review A, 1999, 59, 4470-4474.	2.5	10
96	Au-analyte adducts resulting from single massive gold cluster impacts. Applied Surface Science, 2006, 252, 6558-6561.	6.1	10
97	Characteristics of positive and negative secondary ions emitted from Au_{3+} and Au_{400+} impacts. Surface and Interface Analysis, 2013, 45, 134-137.	1.8	10
98	Bottom-up/top-down, high-resolution, high-throughput lithography using vertically assembled block bottle brush polymers. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2013, 12, 043006.	0.9	10
99	Mass Spectrometry of Nanoparticles is Different. Journal of the American Society for Mass Spectrometry, 2015, 26, 1259-1265.	2.8	10
100	Hypervelocity cluster ion impacts on free standing graphene: Experiment, theory, and applications. Journal of Chemical Physics, 2019, 150, 160901.	3.0	10
101	Topological Design of Highly Anisotropic Aligned Hole Transporting Molecular Bottlebrushes for Solution-Processed OLEDs. Journal of the American Chemical Society, 2022, 144, 8084-8095.	13.7	10
102	Exit conditions for secondary ion emission induced by keV cluster bombardment. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 317-322.	1.4	9
103	Solid-state luminescence: Probe for ion-solid interactions. Physical Review B, 1995, 51, 7373-7376.	3.2	9
104	Coincidental emission of molecular ions from keV carbon cluster impacts. International Journal of Mass Spectrometry, 2004, 238, 59-64.	1.5	9
105	Characterization of surface structure by cluster coincidental ion mass spectrometry. Applied Surface Science, 2004, 231-232, 106-112.	6.1	9
106	Bidirectional Ion Emission from Massive Gold Cluster Impacts on Nanometric Carbon Foils. Journal of Physical Chemistry C, 2012, 116, 8138-8144.	3.1	9
107	Advances in accelerator based analysis techniques. Journal of Radioanalytical Chemistry, 1981, 64, 195-212.	0.5	8
108	On the determination of phosphorus via charged particle activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 1985, 91, 173-178.	1.5	8

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109	252Cf-particle desorption mass spectrometry in a depth profiling mode. Nuclear Instruments & Methods in Physics Research B, 1988, 34, 89-96.	1.4	8
110	Particle desorption mass spectrometry of Yt _{1-x} Ba _x Cu _{1-y} O superconductors. International Journal of Mass Spectrometry and Ion Processes, 1989, 91, R5-R11.	1.8	8
111	Spontaneous desorption: field assisted ion induced desorption mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1990, 97, 311-324.	1.8	8
112	Sputtering of Tetrafluoro- and Tetraphenylborate Anions Adsorbed to an Amine-Terminated Self-Assembled Monolayer Surface. Journal of Physical Chemistry B, 1999, 103, 7929-7934.	2.6	8
113	Determination of the metastable dissociation pathways for chromium/oxygen cluster ions sputtered from potassium chromate and dichromate using the ion-neutral correlation method. International Journal of Mass Spectrometry, 2000, 203, 59-69.	1.5	8
114	Layer-by-layer characterization of ultrathin films with secondary ion mass spectrometry. Applied Surface Science, 2004, 231-232, 328-331.	6.1	8
115	Photon, Electron, and Secondary Ion Emission from Single C ₆₀ keV Impacts. Journal of Physical Chemistry Letters, 2010, 1, 3510-3513.	4.6	8
116	Electron Emission from Hypervelocity C ₆₀ Impacts. Journal of Physical Chemistry C, 2010, 114, 17191-17196.	3.1	8
117	Ejection-ionization of molecules from free standing graphene. Journal of Chemical Physics, 2017, 146, 084308.	3.0	8
118	On the possibility of using an electromagnetic radioisotope separator in conjunction with charged-particle and photon-activation analysis. Talanta, 1968, 15, 883-885.	5.5	7
119	Micro and surface analysis with fast heavy ions. Analytica Chimica Acta, 1987, 195, 163-172.	5.4	7
120	A brief review of the determination of cadmium by prompt gamma-ray neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 1991, 152, 497-506.	1.5	7
121	A spontaneous desorption-based polyatomic ion source. Review of Scientific Instruments, 1993, 64, 1748-1753.	1.3	7
122	A preliminary screening technique for selected metals at waste sites. Journal of Radioanalytical and Nuclear Chemistry, 1995, 192, 275-280.	1.5	7
123	Speciation of Sodium Nitrate and Sodium Nitrite Using Kiloelectronvolt Energy Atomic and Polyatomic and Megaelectronvolt Energy Atomic Projectiles with Secondary Ion Mass Spectrometry. Analytical Chemistry, 2000, 72, 2468-2474.	6.5	7
124	Real-time localization of single C ₆₀ impacts with correlated secondary ion detection. Surface and Interface Analysis, 2011, 43, 484-487.	1.8	7
125	On the surface mapping using individual cluster impacts. Nuclear Instruments & Methods in Physics Research B, 2012, 273, 270-273.	1.4	7
126	Charged particle activation analysis applied to the detection of heavy elements. Journal of Radioanalytical Chemistry, 1973, 16, 413-419.	0.5	6

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127	Neutron activation analysis of flints from the edwards formation. Journal of Radioanalytical Chemistry, 1979, 52, 101-110.	0.5	6
128	Studies in heavy ion activation analysis. Journal of Radioanalytical Chemistry, 1979, 54, 281-288.	0.5	6
129	Studies in heavy ion activation analysis. Journal of Radioanalytical Chemistry, 1980, 60, 255-260.	0.5	6
130	Radioactive implant induced X-ray emission. Nuclear Instruments & Methods in Physics Research, 1982, 193, 21-25.	0.9	6
131	Studies in heavy ion activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 1985, 90, 341-348.	1.5	6
132	Design and performance evaluation of a miniaturized particle desorption mass spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 273, 203-210.	1.6	6
133	Surface analysis with keV polyatomic projectiles. Nuclear Instruments & Methods in Physics Research B, 1991, 56-57, 361-364.	1.4	6
134	Plasma desorption mass spectrometry with coincidence counting for the analysis of polymer surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 1300-1306.	2.1	6
135	Diffusion of lithium-6 isotopes in lithium aluminate ceramics using neutron depth profiling. Journal of Nuclear Materials, 1993, 203, 43-49.	2.7	6
136	Sublinear effect in light emission from cesium iodide bombarded by keV polyatomic projectiles. Nuclear Instruments & Methods in Physics Research B, 1998, 134, 352-359.	1.4	6
137	Organic SIMS with single massive gold projectile: Ion yield enhancement by silver metallization. Applied Surface Science, 2006, 252, 6644-6647.	6.1	6
138	Photon emission from massive projectile impacts on solids. Surface and Interface Analysis, 2011, 43, 53-57.	1.8	6
139	2D AlB ₂ flakes for epitaxial thin film growth. Journal of Materials Research, 2018, 33, 2318-2326.	2.6	6
140	Trace determination of zirconium using charged particle activation. Journal of Radioanalytical Chemistry, 1974, 22, 139-145.	0.5	5
141	Spatially resolved heavy ion induced desorption mass spectrometry. International Journal of Mass Spectrometry and Ion Physics, 1983, 53, 331-334.	1.3	5
142	Particle induced desorption mass spectrometry in a microscopic mode. Analytical Chemistry, 1986, 58, 1686-1690.	6.5	5
143	Ion-induced desorption in insulators by Hydrogen cluster impact up to 600 KeV. Radiation Effects, 1986, 99, 213-226.	0.4	5
144	X-ray photoelectron spectroscopy and Rutherford backscattering spectrometry study of anion incorporation in anodically grown films. Thin Solid Films, 1988, 167, 245-254.	1.8	5

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145	Cf-252 particle desorption mass spectrometry of photo-oxidized polystyrene. <i>Surface and Interface Analysis</i> , 1990, 15, 503-508.	1.8	5
146	Fragment ion formation fromn-alkanes and cycloalkanes by plasma desorption. <i>Organic Mass Spectrometry</i> , 1994, 29, 679-683.	1.3	5
147	The use of coincidence counting mass spectrometry to study the emission and metastable dissociation of cluster ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 112, 68-71.	1.4	5
148	Secondary cluster ion distributions produced by MeV ion impacts on Group IIA oxides and nitrates. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 155, 89-97.	1.8	5
149	An old-new tool for nuclear analysis: Time-of-Flight spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1997, 215, 23-30.	1.5	5
150	Recoiled ions from polyatomic cluster impacts on organic and inorganic targets. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 142, 606-611.	1.4	5
151	Nanodomain analysis via coincidence ion mass spectrometry. <i>Applied Surface Science</i> , 2004, 231-232, 113-116.	6.1	5
152	SIMS methodology for probing the fate and dispersion of catalytically active molecules. <i>International Journal of Mass Spectrometry</i> , 2014, 370, 107-113.	1.5	5
153	Characterization of individual free-standing nano-objects by cluster SIMS in transmission. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, 03H117.	1.2	5
154	â€œTrampolineâ€ejection of organic molecules from graphene and graphite via keV cluster ions impacts. <i>Journal of Chemical Physics</i> , 2018, 148, 144309.	3.0	5
155	Understanding photoacid generator distribution at the nanoscale using massive cluster secondary ion mass spectrometry. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2019, 18, 1.	0.9	5
156	Microanalysis of â€œbiometallicâ€ compounds using nuclear and atomic activation. <i>Journal of Radioanalytical Chemistry</i> , 1979, 52, 117-126.	0.5	4
157	Rutherford Backscattering with Heavy Ions. <i>IEEE Transactions on Nuclear Science</i> , 1981, 28, 1831-1833.	2.0	4
158	Studies in heavy ion activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1985, 88, 369-377.	1.5	4
159	Trace determination of lead by helium-4 activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1987, 119, 81-86.	1.5	4
160	Advances in nuclear analysis methods. <i>Analyst, The</i> , 1989, 114, 269.	3.5	4
161	Surface characterization of chemically modified chrysotile asbestos by particle-induced desorption mass spectrometry. <i>Surface and Interface Analysis</i> , 1990, 15, 651-658.	1.8	4
162	New approaches for neutron depth profiling. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1994, 180, 255-262.	1.5	4

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163	A mass spectrometric method for probing surface structure. <i>Vacuum</i> , 1995, 46, 1227-1230.	3.5	4
164	Secondary cluster ion emission from megaelectron volts ion impacts on NaBF ₄ . 1. Ion decay fractions and dissociation pathways. <i>International Journal of Mass Spectrometry</i> , 2000, 202, 111-119.	1.5	4
165	Secondary ion yield improvements for phosphated and sulfated molecules using substrate-enhanced time-of-flight secondary ion mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2001, 209, 113-124.	1.5	4
166	Influence of constituent mass on secondary ion yield enhancements from polyatomic ion impacts on aminoethanethiol self-assembled monolayer surfaces. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 370-372.	1.5	4
167	A novel approach for coincidence ion mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 609-611.	3.7	4
168	Surface characterization of biological nanodomains using NPToF-SIMS. <i>Surface and Interface Analysis</i> , 2013, 45, 294-297.	1.8	4
169	HYDROGEN IONS EMISSION UNDER FAST CHARGED PARTICLES : THE BEGINNING OF THE DESORPTION PROCESS. <i>Journal De Physique Colloque</i> , 1989, 50, C2-79-C2-84.	0.2	4
170	Nanoscale molecular analysis of photoresist films with massive cluster secondary-ion mass spectrometry. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2019, 18, 1.	0.9	4
171	Nanoprojectile Secondary Ion Mass Spectrometry for Nanometrology of Nanoparticles and Their Interfaces. <i>Analytical Chemistry</i> , 2022, 94, 7868-7876.	6.5	4
172	Studies in heavy ion activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1980, 60, 261-265.	0.5	3
173	The unusual structure of tungsten-doped electrochemically-grown alumina films detected by MeV ion scattering. <i>Journal of the Chemical Society Chemical Communications</i> , 1984, , 1560.	2.0	3
174	Application of particle desorption mass spectrometry to the characterization of minerals. <i>Analytical Chemistry</i> , 1986, 58, 2126-2129.	6.5	3
175	Surface characterization of a National Bureau of Standards glass reference material by californium-252 particle desorption mass spectrometry. <i>Analytical Chemistry</i> , 1988, 60, 1944-1947.	6.5	3
176	Studies in neutron depth profiling. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1993, 167, 111-119.	1.5	3
177	Primary ion production from various gases in spontaneous desorption. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 128, 107-113.	1.8	3
178	Coincidence counting analysis of secondary ions emitted from a phenylalanine target under multicharged MeV carbon bombardment. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 136, 107-117.	1.8	3
179	Luminescence of self-trapped excitons induced by single keV ion bombardment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 100, 383-388.	1.4	3
180	A plasma desorption mass spectrometry study of cluster ion formation from group IIA nitrates. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 112, 55-58.	1.4	3

#	ARTICLE	IF	CITATIONS
181	Examination of individual nanoparticles with cluster SIMS. <i>Surface and Interface Analysis</i> , 2011, 43, 547-550.	1.8	3
182	Statistics of electron and ion emission from single massive cluster impacts. <i>Surface and Interface Analysis</i> , 2011, 43, 49-52.	1.8	3
183	Characterization of individual nano-objects with nanoprojectile-SIMS. <i>Surface and Interface Analysis</i> , 2013, 45, 329-332.	1.8	3
184	Characterization of nanometric inclusions via nanoprojectile impacts. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	1.2	3
185	Heavy ion induced K, L and M X-rays and their use in trace element analysis. <i>Journal of Radioanalytical Chemistry</i> , 1979, 54, 191-203.	0.5	2
186	Trace determination of rhodium using proton activation followed by X-ray counting. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1986, 100, 197-201.	1.5	2
187	Recent developments in chemical characterization with MeV ion beams. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1987, 110, 451-460.	1.5	2
188	A comparison of SIMS and PDMS: Analyses of mixed metal oxides. <i>Materials Chemistry and Physics</i> , 1988, 20, 485-499.	4.0	2
189	Multicomponent dye detection with californium-252 particle-desorption mass spectrometry. <i>Analytica Chimica Acta</i> , 1989, 218, 85-92.	5.4	2
190	Interaction of atomic and molecular MeV ions with surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 79, 215-218.	1.4	2
191	A coincidence counting study of spontaneous desorption. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 127, 1-9.	1.8	2
192	Plasma desorption mass spectrometry of small straight-chain and cyclic alkenes. <i>Journal of Mass Spectrometry</i> , 1995, 30, 305-311.	1.6	2
193	Secondary ion correlations in plasma desorption mass spectrometry as a function of fission fragment energy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 96, 536-540.	1.4	2
194	Probing chemical homogeneity within single cluster impact sites. <i>Surface and Interface Analysis</i> , 2011, 43, 551-554.	1.8	2
195	Nanodomain analysis with cluster-SIMS: application to the characterization of macromolecular brush architecture. <i>Surface and Interface Analysis</i> , 2015, 47, 1051-1055.	1.8	2
196	Enhanced sputter and secondary ion yields using MeV gold nanoparticle beams delivered by the Andromede facility. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020, 38, 044008.	1.2	2
197	CLUSTERS AS PROJECTILES FOR SIMS. <i>Journal De Physique Colloque</i> , 1989, 50, C2-85-C2-92.	0.2	2
198	New Methodology for Accurate Determination of Molecular Co-localization at the Nanoscale. <i>Langmuir</i> , 2022, 38, 5626-5632.	3.5	2

#	ARTICLE	IF	CITATIONS
199	Short communications. Talanta, 1975, 22, 84-87.	5.5	1
200	Radioactive ion microscopy. Die Naturwissenschaften, 1980, 67, 254-255.	1.6	1
201	Possibilities of using simultaneous ion-induced nuclear and atomic activation for the characterization of hair. Journal of Radioanalytical Chemistry, 1980, 57, 113-120.	0.5	1
202	Activation Analysis with 1 MeV/amu Heavy Ion Beams. IEEE Transactions on Nuclear Science, 1981, 28, 1672-1674.	2.0	1
203	Radioactive implant induced X-ray emission: Part II. Nuclear Instruments & Methods in Physics Research, 1983, 216, 497-500.	0.9	1
204	Studies in heavy ion activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 1985, 90, 349-354.	1.5	1
205	Studies in heavy ion activation analysis trace determination possibilities with ⁹ Be bombardment. Journal of Radioanalytical and Nuclear Chemistry, 1987, 116, 401-408.	1.5	1
206	Analysis of Fluorescent Proteins with a Nanoparticle Probe. Journal of Physical Chemistry Letters, 2012, 3, 337-341.	4.6	1
207	Simultaneous detection and localization of secondary ions and electrons from single large cluster impacts. Surface and Interface Analysis, 2013, 45, 529-531.	1.8	1
208	SIMS of transfer ribonucleic acid molecules encapsulated between free-standing graphene sheets. Biointerphases, 2016, 11, 02A324.	1.6	1
209	Charged particle activation analysis. Analytical Chemistry, 1980, 52, 827A-844A.	6.5	1
210	DESORPTION YIELDS USING keV POLYATOMIC PROJECTILES. Journal De Physique Colloque, 1989, 50, C2-147-C2-153.	0.2	1
211	Understanding the photoacid generator distribution at nanoscale using massive cluster secondary ion mass spectrometry. , 2019, , .		1
212	Rutherford backscattering with heavy ions. Journal of Radioanalytical Chemistry, 1983, 78, 181-187.	0.5	0
213	Characterization of tantalum pentoxide films with backscattering spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 1985, 90, 325-332.	1.5	0
214	Desorption mass spectrometry using cluster ions. Nuclear Instruments & Methods in Physics Research B, 1985, 10-11, 751-753.	1.4	0
215	Time-correlated luminescence from MeV projectile impacts. Nuclear Instruments & Methods in Physics Research B, 1996, 119, 583-586.	1.4	0
216	Probing silicon substitution in molecular sieves by plasma desorption mass spectrometry. Journal of Molecular Structure, 1998, 470, 183-190.	3.6	0

#	ARTICLE	IF	CITATIONS
217	Bottom-up/top-down high resolution, high throughput lithography using vertically assembled block bottle brush polymers. , 2013, , .		0
218	Nano-scale molecular analysis of photo-resist films with massive cluster secondary ion mass spectrometry. , 2019, , .		0
219	10.1063/1.5080606.1. , 2019, , .		0
220	10.1063/1.5080606.4. , 2019, , .		0
221	Ionâ€neutral correlations from the dissociation of metal oxide cluster ions in a reflectron time-of-flight mass spectrometer. Journal of Mass Spectrometry, 1999, 34, 677.	1.6	0