

# Aviv Amirav

## List of Publications by Year in descending order

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106  
papers

3,792  
citations

101384

36  
h-index

138251

58  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1567  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen and hydrogen as carrier and makeup gases for GC-MS with Cold EI. Journal of Mass Spectrometry, 2022, 57, e4830.	0.7	6
2	Whole blood analysis for medical diagnostics by GC-MS with Cold EI. Journal of Mass Spectrometry, 2022, 57, .	0.7	3
3	Comparison of Isotope Abundance Analysis and Accurate Mass Analysis in their Ability to Provide Elemental Formula Information. Journal of the American Society for Mass Spectrometry, 2021, 32, 929-935.	1.2	5
4	Cannabis and its cannabinoids analysis by gas chromatography-mass spectrometry with Cold EI. Journal of Mass Spectrometry, 2021, 56, e4726.	0.7	16
5	Cold Electron Ionization (EI) Is Not a Supplementary Ion Source to Standard EI. It is a Highly Superior Replacement Ion Source. Journal of the American Society for Mass Spectrometry, 2021, 32, 2631-2635.	1.2	8
6	Less than one minute low-pressure gas chromatography - mass spectrometry. Journal of Chromatography A, 2020, 1612, 460691.	1.8	15
7	Doubly Charged Molecular Ions in GC-MS with Cold EI. Journal of the American Society for Mass Spectrometry, 2020, 31, 347-354.	1.2	6
8	A comparison of electron ionization mass spectra obtained at 70 eV, low electron energies, and with cold EI and their NIST library identification probabilities. Journal of Mass Spectrometry, 2020, 55, e4646.	0.7	20
9	Analysis of impurities in pharmaceuticals by LC-MS with cold electron ionization. Journal of Mass Spectrometry, 2020, 55, e4587.	0.7	3
10	Electron Ionization Mass Spectrometry for Both Liquid and Gas Chromatography in One System without the Need for Hardware Adjustments. Journal of the American Society for Mass Spectrometry, 2020, 31, 1713-1721.	1.2	10
11	GC-MS with photoionization of cold molecules in supersonic molecular beams-Approaching the softest ionization method. Journal of Mass Spectrometry, 2020, 55, e4516.	0.7	1
12	The pre-separation of oxygen containing compounds in oxidised heavy paraffinic fractions and their identification by GC-MS with supersonic molecular beams.. Journal of Mass Spectrometry, 2019, 54, 328-341.	0.7	5
13	Pesticide analysis by pulsed flow modulation GCxGC-MS with Cold EI-an alternative to GC-MS-MS. Analytical and Bioanalytical Chemistry, 2018, 410, 5507-5519.	1.9	13
14	Covalent functionalization of solid cellulose by divergent synthesis of chemically active dendrons. Journal of Polymer Science Part A, 2018, 56, 2103-2114.	2.5	6
15	Electron Ionization LC-MS. Comprehensive Analytical Chemistry, 2018, 79, 1-28.	0.7	9
16	Fast Heroin and Cocaine Analysis by GC-MS with Cold EI: The Important Role of Flow Programming. Chromatographia, 2017, 80, 295-300.	0.7	14
17	Open Probe fast GC-MS - combining ambient sampling ultra-fast separation and in-vacuum ionization for real-time analysis. Journal of Mass Spectrometry, 2017, 52, 417-426.	0.7	13
18	Comparison of electrospray LC-MS, LC-MS with Cold EI and GC-MS with Cold EI for sample identification. International Journal of Mass Spectrometry, 2017, 422, 119-125.	0.7	22

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19	Second hydrogen atom abstraction by molecular ions. <i>Journal of Mass Spectrometry</i> , 2017, 52, 638-642.	0.7	1
20	A New Pulsed Flow Modulation GC-MS with Cold EI System and Its Application for Jet Fuel Analysis. <i>Chromatographia</i> , 2016, 79, 741-754.	0.7	11
21	Resolving detailed molecular structures in complex organic mixtures and modeling their secondary organic aerosol formation. <i>Atmospheric Environment</i> , 2016, 128, 276-285.	1.9	9
22	Electron ionization LC-MS with supersonic molecular beams—the new concept, benefits and applications. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1252-1263.	0.7	33
23	Soft Cold EI – approaching molecular ion only with electron ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1954-1960.	0.7	20
24	How enhanced molecular ions in Cold EI improve compound identification by the NIST library. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2287-2292.	0.7	23
25	Open Probe fast GC-MS—Real time analysis with separation. <i>International Journal of Mass Spectrometry</i> , 2014, 371, 47-53.	0.7	11
26	Measurement and optimization of organic chemical reaction yields by GC-MS with supersonic molecular beams. <i>Tetrahedron</i> , 2012, 68, 5793-5799.	1.0	19
27	A low thermal mass fast gas chromatograph and its implementation in fast gas chromatography mass spectrometry with supersonic molecular beams. <i>Journal of Chromatography A</i> , 2011, 1218, 9375-9383.	1.8	18
28	Open Probe: A Device for Ultra Fast Electron Ionization Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2010, 82, 5777-5782.	3.2	12
29	Isotope abundance analysis for improved sample identification with tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3668-3672.	0.7	4
30	Analysis of quinocide in unprocessed primaquine diphosphate and primaquine diphosphate tablets using gas chromatography-mass spectrometry with supersonic molecular beams. <i>Journal of Chromatography A</i> , 2009, 1216, 824-829.	1.8	17
31	Classical electron ionization mass spectra in gas chromatography/mass spectrometry with supersonic molecular beams. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2660-2666.	0.7	18
32	Gas chromatography-mass spectrometry with supersonic molecular beams. <i>Journal of Mass Spectrometry</i> , 2008, 43, 141-163.	0.7	125
33	Pulsed flow modulation comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2008, 1186, 189-195.	1.8	51
34	Hydrocarbons and fuels analyses with the supersonic gas chromatography mass spectrometry—The novel concept of isomer abundance analysis. <i>Journal of Chromatography A</i> , 2008, 1195, 127-135.	1.8	33
35	Pulsed flow modulation two-dimensional comprehensive gas chromatography—tandem mass spectrometry with supersonic molecular beams. <i>Journal of Chromatography A</i> , 2008, 1210, 108-114.	1.8	44
36	Identification and confirmation of chemical residues in food by chromatography-mass spectrometry and other techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 1070-1090.	5.8	116

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37	Sensitivity and noise in GC-MS: Achieving low limits of detection for difficult analytes. <i>International Journal of Mass Spectrometry</i> , 2007, 260, 31-48.	0.7	59
38	Isotope abundance analysis methods and software for improved sample identification with supersonic gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2579-2588.	0.7	52
39	Flow modulation comprehensive two-dimensional gas chromatography-mass spectrometry with a supersonic molecular beam. <i>Journal of Chromatography A</i> , 2006, 1129, 95-104.	1.8	26
40	A new type of GC-MS with advanced capabilities. <i>International Journal of Mass Spectrometry</i> , 2006, 251, 47-58.	0.7	57
41	A Comparison of SnifProbe and SPME for Aroma Sampling. <i>Chromatographia</i> , 2006, 64, 487-493.	0.7	2
42	LC-MS with electron ionization of cold molecules in supersonic molecular beams. <i>International Journal of Mass Spectrometry</i> , 2005, 244, 15-28.	0.7	37
43	Identification of novel synthetic organic compounds with supersonic gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1058, 233-242.	1.8	13
44	Identification of novel synthetic organic compounds with supersonic gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1058, 233-242.	1.8	14
45	Cluster chemical ionization for improved confidence level in sample identification by gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1326-1338.	0.7	36
46	Extending the range of compounds amenable for gas chromatography-mass spectrometric analysis. <i>Journal of Chromatography A</i> , 2003, 991, 217-240.	1.8	91
47	Improved electron ionization ion source for the detection of supersonic molecular beams. <i>Review of Scientific Instruments</i> , 2002, 73, 2872-2876.	0.6	49
48	Fast, high-sensitivity, multipesticide analysis of complex mixtures with supersonic gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2002, 974, 185-212.	1.8	62
49	Pressure and gas composition effects on the operation of the pulsed flame photometric detector. <i>Israel Journal of Chemistry</i> , 2001, 41, 91-98.	1.0	0
50	Supersonic gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 811-820.	0.7	60
51	Electrolyzer-operated gas-cylinder-free GC-FID. <i>Field Analytical Chemistry and Technology</i> , 2001, 5, 107-115.	0.9	7
52	Fast GC-PFPD system for field analysis of chemical warfare agents. <i>Field Analytical Chemistry and Technology</i> , 2000, 4, 170-194.	0.9	31
53	SnifProbe: new method and device for vapor and gas sampling. <i>Journal of Chromatography A</i> , 2000, 903, 155-172.	1.8	54
54	Liquid chromatography mass spectrometry with supersonic molecular beams. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 587-591.	1.2	28

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55	Simultaneous pulsed flame photometric and mass spectrometric detection for enhanced pesticide analysis capabilities. <i>Journal of Chromatography A</i> , 1998, 814, 133-150.	1.8	47
56	Laser desorption fast gas chromatography–Mass spectrometry in supersonic molecular beams. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 628-637.	1.2	19
57	Fast analysis of drugs in a single hair. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1311-1320.	1.2	36
58	Megabore versus microbore as the optimal column for fast gas chromatography/mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 1998, 4, 7.	0.7	30
59	Fast gas chromatography/mass spectrometry analysis of drugs in urine with hyperthermal surface ionization in supersonic molecular beams. <i>European Journal of Mass Spectrometry</i> , 1998, 4, 15.	0.7	10
60	Fast GC–MS in Supersonic Molecular Beams. <i>Israel Journal of Chemistry</i> , 1997, 37, 475-482.	1.0	5
61	A direct sample introduction device for mass spectrometry studies and gas chromatography mass spectrometry analyses. <i>European Journal of Mass Spectrometry</i> , 1997, 3, 105.	0.7	128
62	Pesticide Analysis with the Pulsed-Flame Photometer Detector and a Direct Sample Introduction Device. <i>Analytical Chemistry</i> , 1997, 69, 1426-1435.	3.2	89
63	Electrolyzer-Powered Flame Ionization Detector. <i>Analytical Chemistry</i> , 1997, 69, 1248-1255.	3.2	18
64	Electrolyzer powered nitrogen phosphorus detector. <i>Field Analytical Chemistry and Technology</i> , 1997, 1, 375-380.	0.9	1
65	Cluster chemical ionization and deuterium exchange mass spectrometry in supersonic molecular Beams. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 550-558.	1.2	27
66	Fast, very fast, and ultra-fast gas chromatography-mass spectrometry of thermally labile steroids, carbamates, and drugs in supersonic molecular beams. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 737-752.	1.2	63
67	Electron impact mass spectrometry of alkanes in supersonic molecular beams. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 120-131.	1.2	58
68	Surface ionization mass spectrometry of drugs in the thermal and hyperthermal energy range – a comparative study. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 151, 159-165.	1.9	12
69	Pulsed Flame Photometer Detector for Gas Chromatography. <i>Analytical Chemistry</i> , 1995, 67, 3305-3318.	3.2	103
70	Fast, high temperature and thermolabile GC–MS in supersonic molecular beams. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 133, 187-210.	1.9	54
71	High-efficiency surface-induced dissociation on a rhenium oxide surface. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 869-873.	1.2	28
72	Isotope, molecular and surface effects on hyperthermal surface induced dissociated ionization. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 125, 63-74.	1.9	16

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73	Pulsed-flame photometer: a novel gas chromatography detector. <i>Analytical Chemistry</i> , 1993, 65, 539-555.	3.2	108
74	Vibrational predissociation of 9,10-dichloroanthracene-Mixed and homo rare gas atom clusters. <i>Journal of Chemical Physics</i> , 1993, 99, 9616-9628.	1.2	7
75	Collisionally-activated dissociation in hyperthermal surface ionization of cholesterol. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 113, 157-165.	1.9	18
76	Electron impact and hyperthermal surface ionization mass spectrometry in supersonic molecular beams. <i>Organic Mass Spectrometry</i> , 1991, 26, 1-17.	1.3	71
77	The dynamics of equally spaced multilevel model systems. <i>International Journal of Quantum Chemistry</i> , 1991, 39, 387-397.	1.0	0
78	Electron impact mass spectrometry in supersonic molecular beams. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 97, 107-113.	1.9	49
79	Hyperthermal surface ionization: a novel ion source with analytical applications. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 96, 139-167.	1.9	40
80	NaXe and KXe positive ion formation in hyperthermal xenon-Pt(111) surface scattering. <i>Journal of Chemical Physics</i> , 1990, 93, 7506-7507.	1.2	4
81	Chemically induced hyperthermal surface ionization. <i>Journal of Chemical Physics</i> , 1990, 92, 6968-6970.	1.2	12
82	Electron impact mass spectrometry of cholesterol in supersonic molecular beams. <i>The Journal of Physical Chemistry</i> , 1990, 94, 5200-5202.	2.9	28
83	Rydberg state absorption spectroscopy of Br(CH <sub>2</sub> ) <sub>n</sub> l (n=1-3). <i>Journal of Chemical Physics</i> , 1990, 93, 8576-8579.	1.2	6
84	The branching of nonradiative processes in isoquinoline. <i>Journal of Chemical Physics</i> , 1989, 91, 3532-3538.	1.2	8
85	Molecular ionization and dissociative ionization at hyperthermal surface scattering. <i>The Journal of Physical Chemistry</i> , 1989, 93, 5549-5562.	2.9	77
86	Hyperthermal Surface Ionization. <i>Israel Journal of Chemistry</i> , 1989, 29, 443-449.	1.0	23
87	The effect of small cluster environment on molecular oscillator strengths and spectra. <i>Journal of Chemical Physics</i> , 1988, 88, 3516-3523.	1.2	21
88	Dissociation and ionization in hyperthermal 1-iodopropane-diamond scattering. <i>Surface Science</i> , 1988, 193, 132-152.	0.8	46
89	Rotational effects on pyrazine S <sub>1</sub> (1B <sub>3u</sub> ) dynamics and the problem of the missing states. <i>Journal of Chemical Physics</i> , 1988, 88, 2840-2841.	1.2	9
90	Optical selection studies of electronic relaxation from the S <sub>1</sub> state of jet-cooled anthracene derivatives. <i>Journal of Chemical Physics</i> , 1988, 88, 3092-3110.	1.2	119

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91	Ceramic nozzle for molecular acceleration and its temperature measurement. Review of Scientific Instruments, 1987, 58, 1724-1726.	0.6	30
92	Kinetic energy induced surface dissociative ionization. Journal of Chemical Physics, 1987, 86, 4708-4709.	1.2	32
93	Rotational effects on energy resolved emission of anthracene. Journal of Chemical Physics, 1987, 86, 4706-4707.	1.2	13
94	Rotational and vibrational state dependence on intramolecular coupling and dynamics in the S <sub>1</sub> state of pyrazine. Journal of Chemical Physics, 1986, 84, 1500-1507.	1.2	62
95	Vacuum ultraviolet absorption spectroscopy in supersonic expansions. Journal of Chemical Physics, 1985, 82, 4378-4379.	1.2	15
96	Spectroscopic manifestation of intramolecular relaxation of azulene in supersonic jets. Journal of Chemical Physics, 1984, 81, 4200-4205.	1.2	48
97	Aerodynamical acceleration and rotational-vibrational temperatures in seeded supersonic molecular beams. Chemical Physics, 1983, 82, 269-283.	0.9	82
98	Excited state energetics of aniline-rare-gas van der Waals complexes. Molecular Physics, 1983, 49, 899-912.	0.8	38
99	Collision induced dissociation of molecular iodine on sapphire. Journal of Chemical Physics, 1983, 79, 4648-4650.	1.2	32
100	Energetics and intramolecular dynamics of the isolated ultracold tetracene molecule in its first excited singlet state. Journal of Chemical Physics, 1981, 75, 3770-3793.	1.2	108
101	Some applications of supersonic expansions to molecular dynamics and photochemistry. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1981, 85, 167-167.	0.9	0
102	Two-photon spectroscopy of ultracold large molecules in planar supersonic expansions. Journal of Chemical Physics, 1981, 75, 3151-3152.	1.2	19
103	Excited state dynamics of the isolated ultracold ovalene molecule. Journal of Chemical Physics, 1981, 74, 3745-3756.	1.2	68
104	Microscopic solvation effects on excited state energetics and dynamics of aromatic molecules in large van der Waals complexes. Journal of Chemical Physics, 1981, 75, 2489-2512.	1.2	191
105	Cooling of large and heavy molecules in seeded supersonic beams. Chemical Physics, 1980, 51, 31-42.	0.9	146
106	Isotope separation in supersonic molecular beams using rf spectroscopy. Journal of Applied Physics, 1980, 51, 1-6.	1.1	100