

Michael R Savina

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Simultaneous Isotopic Analysis of U, Pu, and Am in Spent Nuclear Fuel by Resonance Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 9505-9512.	6.5	11
2	Isotopes of Barium as a Chronometer for Supernova Dust Formation. <i>Astrophysical Journal</i> , 2019, 885, 128.	4.5	7
3	New Constraints on the Abundance of ^{60}Fe in the Early Solar System. <i>Astrophysical Journal Letters</i> , 2018, 857, L15.	8.3	40
4	Strontium and barium isotopes in presolar silicon carbide grains measured with CHILL—two types of X grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 109-126.	3.9	31
5	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 87-108.	3.9	27
6	Resonance ionization of titanium: high useful yield and new autoionizing states. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1962-1969.	3.0	6
7	Electronic excitation of uranium atoms sputtered from uranium metal and oxides. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 214-221.	2.9	8
8	New Resonance Ionization Mass Spectrometry Scheme for Improved Uranium Analysis. <i>Analytical Chemistry</i> , 2018, 90, 10551-10558.	6.5	11
9	High Useful Yield and Isotopic Analysis of Uranium by Resonance Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 6224-6231.	6.5	22
10	Formation of $^{238}\text{U}^{16}\text{O}$ and $^{238}\text{U}^{18}\text{O}$ observed by time-resolved emission spectroscopy subsequent to laser ablation. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	25
11	A non-destructive internal nuclear forensic investigation at Argonne: discovery of a Pu planchet from 1948. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 243-252.	1.5	5
12	CHILL — the Chicago Instrument for Laser Ionization — a new tool for isotope measurements in cosmochemistry. <i>International Journal of Mass Spectrometry</i> , 2016, 407, 1-15.	1.5	68
13	Rate equation model of laser induced bias in uranium isotope ratios measured by resonance ionization mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 666-678.	3.0	5
14	Improved precision and accuracy in quantifying plutonium isotope ratios by RIMS. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 307, 2487-2494.	1.5	10
15	CORRELATED STRONTIUM AND BARIUM ISOTOPIC COMPOSITIONS OF ACID-CLEANED SINGLE MAINSTREAM SILICON CARBIDES FROM MURCHISON. <i>Astrophysical Journal</i> , 2015, 803, 12.	4.5	65
16	Atom probe analyses of nanodiamonds from Allende. <i>Meteoritics and Planetary Science</i> , 2014, 49, 453-467.	1.6	62
17	BARIUM ISOTOPIC COMPOSITION OF MAINSTREAM SILICON CARBIDES FROM MURCHISON: CONSTRAINTS FOR s -PROCESS NUCLEOSYNTHESIS IN ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2014, 786, 66.	4.5	67
18	THE IMPACT OF UPDATED Zr NEUTRON-CAPTURE CROSS SECTIONS AND NEW ASYMPTOTIC GIANT BRANCH MODELS ON OUR UNDERSTANDING OF THE s -PROCESS AND THE ORIGIN OF STARDUST. <i>Astrophysical Journal</i> , 2014, 780, 95.	4.5	43

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19	THE ¹³ C-POCKET STRUCTURE IN AGB MODELS: CONSTRAINTS FROM ZIRCONIUM ISOTOPE ABUNDANCES IN SINGLE MAINSTREAM SiC GRAINS. <i>Astrophysical Journal</i> , 2014, 788, 163.	4.5	40
20	Atom-Probe Tomography of Meteoritic Nanodiamonds.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1676-1677.	0.4	1
21	RIMS analysis of ion induced fragmentation of molecules sputtered from an enriched U3O8 matrix. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 296, 407-412.	1.5	7
22	Improving Precision in Resonance Ionization Mass Spectrometry: Influence of Laser Bandwidth in Uranium Isotope Ratio Measurements. <i>Analytical Chemistry</i> , 2011, 83, 2469-2475.	6.5	21
23	Ion Microscopy with Resonant Ionization Mass Spectrometry: Time-of-Flight Depth Profiling with Improved Isotopic Precision. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 373-377.	1.0	2
24	Resonance ionization mass spectrometry for precise measurements of isotope ratios. <i>International Journal of Mass Spectrometry</i> , 2009, 288, 36-43.	1.5	47
25	Constraining the ¹³ C neutron source in AGB stars through isotopic analysis of trace elements in presolar SiC. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1103-1119.	1.6	48
26	GEMS at the Galactic Cosmic-Ray Source. <i>Space Science Reviews</i> , 2007, 130, 451-456.	8.1	2
27	Microanalysis of Star Dust Using Laser Desorption Postionization MS: A Microprobe to Study Stellar Nucleosynthesis. <i>Microscopy and Microanalysis</i> , 2006, 12, 1218-1219.	0.4	0
28	Photocatalytic degradation of methylene blue on nanocrystalline TiO2: Surface mass spectrometry of reaction intermediates. <i>International Journal of Mass Spectrometry</i> , 2005, 245, 61-67.	1.5	123
29	Extinct Technetium in Silicon Carbide Stardust Grains: Implications for Stellar Nucleosynthesis. <i>Science</i> , 2004, 303, 649-652.	12.6	77
30	Observation by photothermal microscopy of increased silica absorption in laser damage induced by gold nanoparticles. <i>Applied Physics Letters</i> , 2003, 83, 3855-3857.	3.3	28
31	Analyzing individual presolar grains with CHARISMA. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3215-3225.	3.9	75
32	Barium isotopes in individual presolar silicon carbide grains from the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3201-3214.	3.9	73
33	Study of UV laser interaction with gold nanoparticles embedded in silica. <i>Applied Physics B: Lasers and Optics</i> , 2002, 75, 803-815.	2.2	46
34	Efficiency of concrete removal with a pulsed Nd:YAG laser. <i>Journal of Laser Applications</i> , 2000, 12, 200-204.	1.7	12
35	Pulsed laser ablation of cement and concrete. <i>Journal of Laser Applications</i> , 1999, 11, 284-287.	1.7	20
36	Microscopic Chemical Imaging with Laser Desorption Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 3741-3746.	6.5	21

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37	Chemical imaging of surfaces with laser desorption mass spectrometry. TrAC - Trends in Analytical Chemistry, 1997, 16, 242-252.	11.4	13
38	Synthesis and characterization of urea-based polyureas: 1. Urea-terminated poly(1,6-hexamethyleneurea) polyol dispersions. Polymer, 1995, 36, 4275-4285.	3.8	7
39	Synthesis and characterization of urea-based polyureas: 2. Morphology control in urea-terminated poly(1,6-hexamethyleneurea) particles. Polymer, 1995, 36, 4683-4693.	3.8	1
40	Efficient HPLC Purification of Endohedral Metallofullerenes on a Porphyrin-Silica Stationary Phase. Journal of the American Chemical Society, 1994, 116, 9341-9342.	13.7	71
41	A particle-on-a-sphere model for C60. Chemical Physics Letters, 1993, 205, 200-206.	2.6	36
42	Selective separation of C60 and C70 fullerenes on tetraphenylporphyrin-silica gel stationary phases. Analytical Chemistry, 1993, 65, 3717-3719.	6.5	44
43	Effects on properties of varying the cis/trans isomer distribution in polyurethane elastomers made with 1,4-cyclohexane diisocyanate. Journal of Applied Polymer Science, 1992, 44, 1125-1133.	2.6	11