Michael R Savina

List of Publications by Year
in descending order

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43 papers	1,339 citations	331670 21 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1106 citing authors

#	Article	IF	Citations
1	Photocatalytic degradation of methylene blue on nanocrystalline TiO2: Surface mass spectrometry of reaction intermediates. International Journal of Mass Spectrometry, 2005, 245, 61-67.	1.5	123
2	Extinct Technetium in Silicon Carbide Stardust Grains: Implications for Stellar Nucleosynthesis. Science, 2004, 303, 649-652.	12.6	77
3	Analyzing individual presolar grains with CHARISMA. Geochimica Et Cosmochimica Acta, 2003, 67, 3215-3225.	3.9	75
4	Barium isotopes in individual presolar silicon carbide grains from the Murchison meteorite. Geochimica Et Cosmochimica Acta, 2003, 67, 3201-3214.	3.9	73
5	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
6	CHILI â€“ the Chicago Instrument for Laser Ionization â€“ a new tool for isotope measurements in cosmochemistry. International Journal of Mass Spectrometry, 2016, 407, 1-15.	1.5	68
7	BARIUM ISOTOPIC COMPOSITION OF MAINSTREAM SILICON CARBIDES FROM MURCHISON: CONSTRAINTS FORs-PROCESS NUCLEOSYNTHESIS IN ASYMPTOTIC GIANT BRANCH STARS. Astrophysical Journal, 2014, 786, 66.	4.5	67
8	CORRELATED STRONTIUM AND BARIUM ISOTOPIC COMPOSITIONS OF ACID-CLEANED SINGLE MAINSTREAM SILICON CARBIDES FROM MURCHISON. Astrophysical Journal, 2015, 803, 12.	4.5	65
9	Atomâ€probe analyses of nanodiamonds from Allende. Meteoritics and Planetary Science, 2014, 49, 453-467.	1.6	62
10	Constraining the ¹³C neutron source in AGB stars through isotopic analysis of trace elements in presolar SiC. Meteoritics and Planetary Science, 2007, 42, 1103-1119.	1.6	48
11	Resonance ionization mass spectrometry for precise measurements of isotope ratios. International Journal of Mass Spectrometry, 2009, 288, 36-43.	1.5	47
12	Study of UV laser interaction with gold nanoparticles embedded in silica. Applied Physics B: Lasers and Optics, 2002, 75, 803-815.	2.2	46
13	Selective separation of C60 and C70 fullerenes on tetraphenylporphyrin-silica gel stationary phases. Analytical Chemistry, 1993, 65, 3717-3719.	6.5	44
14	THE IMPACT OF UPDATED Zr NEUTRON-CAPTURE CROSS SECTIONS AND NEW ASYMPTOTIC GIANT BRANCH MODELS ON OUR UNDERSTANDING OF THESPROCESS AND THE ORIGIN OF STARDUST. Astrophysical Journal, 2014, 780, 95.	4.5	43
15	THE¹³C-POCKET STRUCTURE IN AGB MODELS: CONSTRAINTS FROM ZIRCONIUM ISOTOPE ABUNDANCES IN SINGLE MAINSTREAM SiC GRAINS. Astrophysical Journal, 2014, 788, 163.	4.5	40
16	New Constraints on the Abundance of ⁶⁰Fe in the Early Solar System. Astrophysical Journal Letters, 2018, 857, L15.	8.3	40
17	A particle-on-a-sphere model for C60. Chemical Physics Letters, 1993, 205, 200-206.	2.6	36
18	Strontium and barium isotopes in presolar silicon carbide grains measured with CHILIâ€”two types of X grains. Geochimica Et Cosmochimica Acta, 2018, 221, 109-126.	3.9	31

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19	Observation by photothermal microscopy of increased silica absorption in laser damage induced by gold nanoparticles. Applied Physics Letters, 2003, 83, 3855-3857.	3.3	28
20	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. Geochimica Et Cosmochimica Acta, 2018, 221, 87-108.	3.9	27
21	Formation of 238U16O and 238U18O observed by time-resolved emission spectroscopy subsequent to laser ablation. Applied Physics Letters, 2017, 111, .	3.3	25
22	High Useful Yield and Isotopic Analysis of Uranium by Resonance Ionization Mass Spectrometry. Analytical Chemistry, 2017, 89, 6224-6231.	6.5	22
23	Microscopic Chemical Imaging with Laser Desorption Mass Spectrometry. Analytical Chemistry, 1997, 69, 3741-3746.	6.5	21
24	Improving Precision in Resonance Ionization Mass Spectrometry: Influence of Laser Bandwidth in Uranium Isotope Ratio Measurements. Analytical Chemistry, 2011, 83, 2469-2475.	6.5	21
25	Pulsed laser ablation of cement and concrete. Journal of Laser Applications, 1999, 11, 284-287.	1.7	20
26	Chemical imaging of surfaces with laser desorption mass spectrometry. TrAC - Trends in Analytical Chemistry, 1997, 16, 242-252.	11.4	13
27	Efficiency of concrete removal with a pulsed Nd:YAG laser. Journal of Laser Applications, 2000, 12, 200-204.	1.7	12
28	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
29	New Resonance Ionization Mass Spectrometry Scheme for Improved Uranium Analysis. Analytical Chemistry, 2018, 90, 10551-10558.	6.5	11
30	Simultaneous Isotopic Analysis of U, Pu, and Am in Spent Nuclear Fuel by Resonance Ionization Mass Spectrometry. Analytical Chemistry, 2021, 93, 9505-9512.	6.5	11
31	Improved precision and accuracy in quantifying plutonium isotope ratios by RIMS. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 2487-2494.	1.5	10
32	Electronic excitation of uranium atoms sputtered from uranium metal and oxides. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 149, 214-221.	2.9	8
33	Synthesis and characterization of urea-based polyureas: 1. Urea-terminated poly(1,6-hexamethyleneurea) polyol dispersions. Polymer, 1995, 36, 4275-4285.	3.8	7
34	RIMS analysis of ion induced fragmentation of molecules sputtered from an enriched U3O8 matrix. Journal of Radioanalytical and Nuclear Chemistry, 2013, 296, 407-412.	1.5	7
35	Isotopes of Barium as a Chronometer for Supernova Dust Formation. Astrophysical Journal, 2019, 885, 128.	4.5	7
36	Resonance ionization of titanium: high useful yield and new autoionizing states. Journal of Analytical Atomic Spectrometry, 2018, 33, 1962-1969.	3.0	6

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37	Rate equation model of laser induced bias in uranium isotope ratios measured by resonance ionization mass spectrometry. Journal of Analytical Atomic Spectrometry, 2016, 31, 666-678.	3.0	5
38	A non-destructive internal nuclear forensic investigation at Argonne: discovery of a Pu planchet from 1948. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 243-252.	1.5	5
39	GEMS at the Galactic Cosmic-Ray Source. Space Science Reviews, 2007, 130, 451-456.	8.1	2
40	Ion Microscopy with Resonant Ionization Mass Spectrometry: Time-of-Flight Depth Profiling with Improved Isotopic Precision. European Journal of Mass Spectrometry, 2010, 16, 373-377.	1.0	2
41	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
42	Atom-Probe Tomography of Meteoritic Nanodiamonds.. Microscopy and Microanalysis, 2014, 20, 1676-1677.	0.4	1
43	Microanalysis of Star Dust Using Laser Desorption Postionization MS: A Microprobe to Study Stellar Nucleosynthesis. Microscopy and Microanalysis, 2006, 12, 1218-1219.	0.4	0