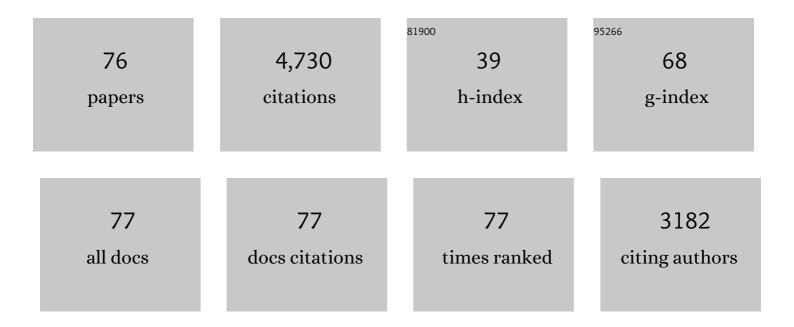
## **Richard E Russo**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Laser ablation in analytical chemistry—a review. Talanta, 2002, 57, 425-451.	5.5	500
2	Applications of laser-induced breakdown spectroscopy for geochemical and environmental analysis: A comprehensive review. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 87, 11-26.	2.9	263
3	Laser Ablation in Analytical Chemistry. Analytical Chemistry, 2013, 85, 6162-6177.	6.5	239
4	Femtosecond laser ablation ICP-MS. Journal of Analytical Atomic Spectrometry, 2002, 17, 1072-1075.	3.0	200
5	Laser Ablation Molecular Isotopic Spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 99-104.	2.9	165
6	Delayed phase explosion during high-power nanosecond laser ablation of silicon. Applied Physics Letters, 2002, 80, 3072-3074.	3.3	160
7	Peer Reviewed: The Physics of Laser Ablation in Microchemical Analysis. Analytical Chemistry, 2002, 74, 70 A-77 A.	6.5	148
8	Comparison of Ultraviolet Femtosecond and Nanosecond Laser Ablation Inductively Coupled Plasma Mass Spectrometry Analysis in Glass, Monazite, and Zircon. Analytical Chemistry, 2003, 75, 6184-6190.	6.5	144
9	Effects of crater development on fractionation and signal intensity during laser ablation inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 1693-1704.	2.9	109
10	Invited paper Observation of plasma shielding by measuring transmitted and reflected laser pulse temporal profiles. Applied Physics A: Materials Science and Processing, 1996, 64, 1-6.	2.3	104
11	Laser ablation sampling. TrAC - Trends in Analytical Chemistry, 1998, 17, 461-469.	11.4	102
12	Laser–nanostructure interactions for ion production. Physical Chemistry Chemical Physics, 2012, 14, 8453.	2.8	97
13	Time-resolved LIBS of atomic and molecular carbon from coal in air, argon and helium. Journal of Analytical Atomic Spectrometry, 2012, 27, 2066.	3.0	96
14	Laser ablation induced vapor plume expansion into a background gas. II. Experimental analysis. Journal of Applied Physics, 2007, 101, 023115.	2.5	95
15	Imaging femtosecond laser-induced electronic excitation in glass. Applied Physics Letters, 2003, 82, 697-699.	3.3	86
16	Laser Ablation Molecular Isotopic Spectrometry: Strontium and its isotopes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 767-775.	2.9	84
17	Elemental mapping of biological samples by the combined use of LIBS and LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2016, 31, 252-258.	3.0	84
18	UV fs–ns double-pulse laser induced breakdown spectroscopy for high spatial resolution chemical analysis. Journal of Analytical Atomic Spectrometry, 2013, 28, 743.	3.0	80

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19	Laser Ablation Molecular Isotopic Spectrometry: Parameter influence on boron isotope measurements. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 604-609.	2.9	79
20	Simultaneous 3-dimensional elemental imaging with LIBS and LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2014, 29, 1292-1298.	3.0	72
21	Ultrafast laser induced breakdown spectroscopy for high spatial resolution chemical analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 189-192.	2.9	69
22	Carbon Isotope Separation and Molecular Formation in Laser-Induced Plasmas by Laser Ablation Molecular Isotopic Spectrometry. Analytical Chemistry, 2013, 85, 2899-2906.	6.5	69
23	Temperature and Emission Spatial Profiles of Laser-Induced Plasmas during Ablation Using Time-Integrated Emission Spectroscopy. Applied Spectroscopy, 1995, 49, 1054-1062.	2.2	68
24	Laser-induced breakdown spectroscopy in industrial and security applications. Applied Optics, 2010, 49, C132.	2.1	67
25	Metal particles produced by laser ablation for ICP–MS measurements. Talanta, 2007, 73, 567-576.	5.5	65
26	Existence of Phase Explosion during Laser Ablation and Its Effects on Inductively Coupled Plasma-Mass Spectroscopy. Analytical Chemistry, 2001, 73, 2288-2293.	6.5	63
27	Femtosecond laser ablation induced plasma characteristics from submicron craters in thin metal film. Applied Physics Letters, 2007, 91, .	3.3	61
28	Particle Size Dependent Chemistry from Laser Ablation of Brass. Analytical Chemistry, 2005, 77, 6687-6691.	6.5	60
29	UV-femtosecond laser ablation-ICP-MS for analysis of alloy samples. Journal of Analytical Atomic Spectrometry, 2004, 19, 1165-1168.	3.0	55
30	Ultrafast laser ablation ICP-MS: role of spot size, laser fluence, and repetition rate in signal intensity and elemental fractionation. Journal of Analytical Atomic Spectrometry, 2014, 29, 339-346.	3.0	49
31	Ultrafast laser induced breakdown spectroscopy of electrode/electrolyte interfaces. Applied Physics Letters, 2012, 100, .	3.3	48
32	Pb/U Fractionation during Nd:YAG 213 nm and 266 nm Laser Ablation Sampling with Inductively Coupled Plasma Mass Spectrometry. Applied Spectroscopy, 2000, 54, 1435-1442.	2.2	47
33	UV-femtosecond and nanosecond laser ablation-ICP-MS: internal and external repeatability. Journal of Analytical Atomic Spectrometry, 2006, 21, 778-784.	3.0	47
34	Femtosecond laser ablation: Experimental study of the repetition rate influence on inductively coupled plasma mass spectrometry performance. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 277-286.	2.9	47
35	Laser ablation molecular isotopic spectrometry of water for 1D2/1H1 ratio analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 88, 46-53.	2.9	47
36	Experimental and theoretical studies of particle generation after laser ablation of copper with a background gas at atmospheric pressure. Journal of Applied Physics, 2007, 101, 123105.	2.5	45

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37	Theory analysis of wavelength dependence of laser-induced phase explosion of silicon. Journal of Applied Physics, 2008, 104, .	2.5	44
38	Assessment of the precision and accuracy of thorium (232Th) and uranium (238U) measured by quadrupole based inductively coupled plasma-mass spectrometry using liquid nebulization, nanosecond and femtosecond laser ablation. Journal of Analytical Atomic Spectrometry, 2008, 23, 229-234.	3.0	43
39	Simulation of a picosecond laser ablation plasma. Applied Physics Letters, 2000, 76, 3370-3372.	3.3	42
40	Analysis of arsenic in rice grains using ICP-MS and fs LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2014, 29, 1233-1237.	3.0	40
41	Glass particles produced by laser ablation for ICP-MS measurements. Talanta, 2007, 73, 577-582.	5.5	37
42	Spatially and temporally resolved spectral emission of laser-induced plasmas confined by cylindrical cavities. Journal of Analytical Atomic Spectrometry, 2014, 29, 2127-2135.	3.0	35
43	Trace element fingerprinting of ancient Chinese gold with femtosecond laser ablation-inductively coupled mass spectrometry. Journal of Archaeological Science, 2009, 36, 461-466.	2.4	34
44	Optical far- and near-field femtosecond laser ablation of Si for nanoscale chemical analysis. Analytical and Bioanalytical Chemistry, 2010, 396, 173-180.	3.7	33
45	Determination of Vanadium/Nickel Proportionality in the Asphaltene Fraction of Crude Oil Using Thin-Layer Chromatography with Femtosecond Laser Ablation–Inductively Coupled Plasma–Mass Spectrometry. Energy & Fuels, 2013, 27, 2431-2436.	5.1	33
46	Elemental analysis of coal by tandem laser induced breakdown spectroscopy and laser ablation inductively coupled plasma time of flight mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 109, 44-50.	2.9	33
47	Multivariate classification of edible salts: Simultaneous Laser-Induced Breakdown Spectroscopy and Laser-Ablation Inductively Coupled Plasma Mass Spectrometry Analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 118, 102-111.	2.9	31
48	Heavy Metal Determination by Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) and Direct Mercury Analysis (DMA) and Arsenic Mapping by Femtosecond (fs) – Laser Ablation (LA) ICP-MS in Cereals. Analytical Letters, 2019, 52, 496-510.	1.8	31
49	Measurement of solid–liquid interface temperature during pulsed excimer laser melting of polycrystalline silicon films. Applied Physics Letters, 1994, 65, 1745-1747.	3.3	30
50	Scanning vs. single spot laser ablation (λ=213 nm) inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 369-374.	2.9	30
51	Laser wavelength effects in ultrafast near-field laser nanostructuring of Si. Applied Physics Letters, 2009, 95, .	3.3	30
52	Influence of preformed shock wave on the development of picosecond laser ablation plasma. Journal of Applied Physics, 2001, 89, 4096-4098.	2.5	29
53	Optical near-field ablation-induced plasma characteristics. Applied Physics Letters, 2006, 89, 254101.	3.3	27
54	Femtosecond laser ablation particle introduction to a liquid sampling-atmospheric pressure glow discharge ionization source. Journal of Analytical Atomic Spectrometry, 2012, 27, 385.	3.0	27

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55	Laser Ablation Molecular Isotopic Spectrometry for Molecules Formation Chemistry in Femtosecond-Laser Ablated Plasmas. Analytical Chemistry, 2017, 89, 7750-7757.	6.5	27
56	Liquid sampling-atmospheric pressure glow discharge as a secondary excitation source: Assessment of plasma characteristics. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 94-95, 39-47.	2.9	26
57	Liquid sampling-atmospheric pressure glow discharge optical emission spectroscopy detection of laser ablation produced particles: A feasibility study. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 76, 190-196.	2.9	24
58	Femtosecond laser ablation multicollector ICPMS analysis of uranium isotopes in NIST glass. Journal of Analytical Atomic Spectrometry, 2015, 30, 1100-1107.	3.0	22
59	Analysis of the absorption layer of CIGS solar cell by laser-induced breakdown spectroscopy. Applied Optics, 2012, 51, B115.	1.8	21
60	Comparison of matrix effects in inductively coupled plasma using laser ablation and solution nebulization for dry and wet plasma conditions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 1375-1386.	2.9	20
61	Laser ablation-induced spectral plasma characteristics in optical far- and near fields. Journal of Applied Physics, 2008, 104, 013110.	2.5	20
62	A metric for evaluation of the image quality of chemical maps derived from LA-ICP-MS experiments. Journal of Analytical Atomic Spectrometry, 2015, 30, 1809-1815.	3.0	17
63	Liquid Sampling–Atmospheric Pressure Glow Discharge as a Secondary Excitation Source for Laser Ablation-Generated Aerosols: Parametric Dependence and Robustness to Particle Loading. Applied Spectroscopy, 2015, 69, 58-66.	2.2	15
64	Rapid bulk analysis using femtosecond laser ablation inductively coupled plasma time-of-flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2012, 27, 1405.	3.0	14
65	Quantitative Analysis of Carbon Content in Bituminous Coal by Laser-Induced Breakdown Spectroscopy Using UV Laser Radiation. Plasma Science and Technology, 2015, 17, 928-932.	1.5	14
66	Ultrafast thin-film laser-induced breakdown spectroscopy of doped oxides. Applied Optics, 2010, 49, C67.	2.1	13
67	Internal mixing dynamics of Cu/Sn-Pb plasmas produced by femtosecond laser ablation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 148, 92-98.	2.9	11
68	Laser ablation. , 2007, , 41-70.		10
69	Solid matrix transformation and tracer addition using molten ammonium bifluoride salt as a sample preparation method for laser ablation inductively coupled plasma mass spectrometry. Analyst, The, 2017, 142, 3333-3340.	3.5	10
70	Guiding and focusing of a nanosecond infrared laser within transient hollow plasma femtosecond filament channels. Journal Physics D: Applied Physics, 2012, 45, 355203.	2.8	9
71	Laser Induced Breakdown Spectroscopy. , 2010, , 1281-1287.		8
72	Application of femtosecond laser ablation inductively coupled plasma mass spectrometry for quantitative analysis of thin Cu(In Ga)Se2 solar cell films. Thin Solid Films, 2015, 577, 82-87	1.8	8

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73	Analysis of Plant Leaves Using Laser Ablation Inductively Coupled Plasma Optical Emission Spectrometry: Use of Carbon to Compensate for Matrix Effects. Applied Spectroscopy, 2017, 71, 709-720.	2.2	8
74	Ablation and spectroscopic characteristics of thin CuIn1-xGaxSe2 solar cell films fabricated by co-evaporation and co-sputtering processes. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 17-24.	4.9	7
75	Calcium fluoride as a dominating matrix for quantitative analysis by laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS): A feasibility study. Analytica Chimica Acta, 2020, 1129, 24-30.	5.4	2
76	Laser ablation sampling. Comprehensive Analytical Chemistry, 2003, , 593-609.	1.3	1