Masabumi Miyabe

List of Publications by Year
in descending order

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40	382	777949	939365
papers	citations	13 h-index	18 g-index

46	46	46	248
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resonance ionisation spectrometry measurement of atomic calcium Rydberg isotope shifts. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 045002.	0.6	1
2	Generation of particles and fragments by quasicontinuous wave fiber laser irradiation of stainless steel, alumina, and concrete materials. Journal of Laser Applications, 2021, 33, .	0.8	3
3	Investigation on the DC Stark shifts of strontium autoionization states for isotope-selective resonance ionization. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 265, 107549.	1.1	1
4	Odd-parity autoionizing levels of uranium observed by two-color two-step photoionization optogalvanic spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 145003.	0.6	0
5	Isotope shift and hyperfine structure measurements on triple resonance excitation to the autoionizing Rydberg state of atomic strontium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 275, 107882.	1.1	4
6	Development of two-color resonant ionization sputtered neutral mass spectrometry and microarea imaging for Sr. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 044001.	0.6	3
7	Resonant sputtered neutral mass spectrometry using multiple reflections of laser to counterbalance Doppler broadening. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 034001.	0.6	0
8	Design, construction and characterization of a single unit external cavity diode laser coupled tapered amplifier system for atomic physics. Optics and Laser Technology, 2020, 126, 106118.	2.2	2
9	Development of laser ablation absorption spectroscopy for nuclear fuel materials: plume expansion behavior for refractory metals observed by laser-induced fluorescence imaging spectroscopy. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	7
10	Spectroscopic analysis of radioactive strontium with low isotopic abundance using laser resonance ionization. Hyperfine Interactions, 2020, 241, 1.	0.2	3
11	Development of microwave-assisted, laser-induced breakdown spectroscopy without a microwave cavity or waveguide. Japanese Journal of Applied Physics, 2020, 59, 062001.	0.8	9
12	Development of Bandpass Filtered External Cavity Diode Laser System for RIMS of Radioactive Strontium Isotopes. , 2019, , .		1
13	Development of an interference-filter-type external-cavity diode laser for resonance ionization spectroscopy of strontium. Review of Scientific Instruments, 2019, 90, 123002.	0.6	5
14	Laser Cooling and Spectroscopy of Trapped Sr Ions. , 2019, , .		1
15	Improvement of mapping quality by reflection of a laser beam in Resonance-SNMS. Journal of Surface Analysis (Online), 2019, 26, 204-205.	0.1	0
16	Investigation of Optical Ionization of Strontium via 5s²¹S₀â€‰âŸ¶â€‰5s5p ³<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>P</mml:mtext></mml:mrow><mml:mrow><mml:mn mathvariant="bold">1</mml:mn></mml:mrow><mml:mrow><mml:mo>Â°</mml:mo></mml:mrow></mml:msubsup></mml:mrow></mml ³D₂â€‰âŸ¶â€‰4dnp (or 4ndf, nâ€‰=â€‰39) for Isotope Selectivity Enhancement. Journal of Spectroscopy, 2018, 2018, 1-6.	0.6	5
17	Laser-induced plasma emission enhanced by microwaves in argon gas for potential application of nuclear fuel material analysis. Journal of Physics: Conference Series, 2017, 820, 012003.	0.3	0
18	Time-resolved plasma imaging in microwave-assisted laser-induced breakdown spectroscopy. Journal of Physics: Conference Series, 2017, 820, 012004.	0.3	1

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19	The effect of ambient gas on measurements with microwave-assisted laser-induced plasmas in MA-LIBS with relevance for the analysis of nuclear fuel. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 77-84.	0.7	21
20	Laser cooling and imaging of individual radioactive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sr</mml:mi><mml:none /><mml:mo>+</mml:mo><mml:mprescripts /><mml:none /><mml:mn>90</mml:mn></mml:mmultiscripts></mml:math> ions. Physical Review A, 2017, 96, .	1.0	7
21	All-diode-laser cooling of Sr⁺isotope ions for analytical applications. Japanese Journal of Applied Physics, 2017, 56, 062401.	0.8	6
22	Laser ablation absorption spectroscopy for isotopic analysis of plutonium: Spectroscopic properties and analytical performance. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 134, 42-51.	1.5	27
23	Effect of defocusing on laser ablation plume observed by laser-induced fluorescence imaging spectroscopy. Japanese Journal of Applied Physics, 2016, 55, 022401.	0.8	3
24	The role of microwaves in the enhancement of laser-induced plasma emission. Frontiers of Physics, 2016, 11, 1.	2.4	25
25	Ablation plume structure and dynamics in ambient gas observed by laser-induced fluorescence imaging spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 110, 101-117.	1.5	25
26	Enhancement of intensity in microwave-assisted laser-induced breakdown spectroscopy for remote analysis of nuclear fuel recycling. Journal of Analytical Atomic Spectrometry, 2014, 29, 886-892.	1.6	47
27	Laser-Induced Breakdown Spectroscopy for Nuclear Fuel Material. The Review of Laser Engineering, 2014, 42, 918.	0.0	3
28	Absorption spectroscopy of uranium plasma for remote isotope analysis of next-generation nuclear fuel. Applied Physics A: Materials Science and Processing, 2013, 112, 87-92.	1.1	28
29	Laser ablation absorption spectroscopy for remote analysis of uranium. Hyperfine Interactions, 2013, 216, 71-77.	0.2	13
30	Effect of Defocusing on Ablated Volume of Gadolinium Oxide. Japanese Journal of Applied Physics, 2013, 52, 042403.	0.8	1
31	Spectroscopy of laser-produced cerium plasma forÂremoteÂisotopeÂanalysisÂofÂnuclearÂfuel. Applied Physics A: Materials Science and Processing, 2010, 101, 65-70.	1.1	20
32	Double-pulse LIBS of gadolinium oxide ablated byÂfemto-ÂandÂnano-second laser pulses. Applied Physics A: Materials Science and Processing, 2010, 101, 545-549.	1.1	31
33	Production of ^{186m}Re by Proton Bombardment of Enriched ¹⁸⁶W. Journal of the Physical Society of Japan, 2008, 77, 025004.	0.7	2
34	Development of Frequency Stabilized Diode Laser Based on a Spectroscopic Study of Magnetically Induced Circular Dichroism of Atomic Rubidium. Japanese Journal of Applied Physics, 2006, 45, 4120-4122.	0.8	3
35	Development of RIMS Apparatus for Isotope Analysis of Calcium in Nuclear Waste Materials. Journal of Nuclear Science and Technology, 2006, 43, 305-310.	0.7	15
36	Determination of Ionization Potential of Calcium by High-Resolution Resonance Ionization Spectroscopy. Journal of the Physical Society of Japan, 2006, 75, 034302.	0.7	18

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37	Total angular momenta of even-parity autoionizing levels and odd-parity high-lying levels of atomic uranium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 3865-3877.	0.6	13
38	Ultra Trace Isotope Determination in Environmental, Bio-Medical and Fundamental Research by High Resolution Laser-Mass Spectrometry.. Journal of Nuclear Science and Technology, 2002, 39, 303-307.	0.7	6
39	Highly excited odd-parity levels of atomic uranium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 4957-4972.	0.6	21
40	Development of RIMS Apparatus for Isotope Analysis of Calcium in Nuclear Waste Materials. , 0, .		1