Koji Michishio

List of Publications by Year
in descending order

50 papers	747 citations	759233 12 h-index	526287 27 g-index
50 all docs	50 docs citations	50 times ranked	493 citing authors

#	Article	IF	Citations
1	Energy dissipation of para-positronium in polymers and silica glass. Applied Physics Express, 2022, 15, 076001.	2.4	2
2	An energy-tunable positronium beam produced via photodetachment of positronium negative ions and its applications. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 212001.	1.5	3
3	Design and construction of an electron accelerator for a pulsed neutron facility at AIST. Nuclear Instruments & Methods in Physics Research B, 2020, 464, 41-44.	1.4	4
4	Effects of Ring Size on the Dynamics of Polyrotaxane Glass. Macromolecules, 2020, 53, 8910-8917.	4.8	10
5	Threshold Photodetachment Spectroscopy of the Positronium Negative Ion. Physical Review Letters, 2020, 125, 063001.	7.8	6
6	Motion-Induced Transition of Positronium through a Static Periodic Magnetic Field in the Sub-THz Region. Physical Review Letters, 2020, 124, 173202.	7.8	6
7	Newly constructed compact accelerator-based neutron facility at AIST. EPJ Web of Conferences, 2020, 231, 01002.	0.3	1
8	Accumulation of LINAC based low energy positrons in a buffer gas trap. Applied Physics Express, 2020, 13, 066003.	2.4	6
9	Temperature dependence of ortho-Positronium Annihilation in Room Temperature Ionic Liquids. Acta Physica Polonica A, 2020, 137, 109-112.	0.5	0
10	A high-quality and energy-tunable positronium beam system employing a trap-based positron beam. Review of Scientific Instruments, 2019, 90, 023305.	1.3	17
11	Design of a compact electron accelerator-driven pulsed neutron facility at AIST. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 407-418.	1.6	12
12	(Invited) A Novel Optical Characterization of a-Si:H/c-Si Interface Microstructures Based on Data of Positron Annihilation Spectroscopy. ECS Transactions, 2019, 92, 21-24.	0.5	0
13	(Invited) A Novel Optical Characterization of a-Si:H/c-Si Interface Microstructures Based on Data of Positron Annihilation Spectroscopy. ECS Meeting Abstracts, 2019, , .	0.0	0
14	Transport of small and neutral solutes through reverse osmosis membranes: Role of skin layer conformation of the polyamide film. Journal of Membrane Science, 2018, 554, 301-308.	8.2	33
15	Fast Optical Characterization of Microvoid Size in Hydrogenated Amorphous Silicon: Study on the Universal Applicability of the Correlation between the Microvoid Size and the Optical Constant. , 2018, , .		0
16	Research progress at the Slow Positron Facility in the Institute of Materials Structure Science, KEK. Journal of Physics: Conference Series, 2017, 791, 012003.	0.4	4
17	Observation of a shape resonance of the positronium negative ion. Nature Communications, 2016, 7, 11060.	12.8	43
18	Development of an energy-tunable positronium beam apparatus using the photodetachment of the positronium negative ion. Journal of Physics: Conference Series, 2015, 635, 082003.	0.4	1

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19	Observation of a resonance in the photodetachment of positronium negative ions. Journal of Physics: Conference Series, 2015, 635, 052050.	0.4	0
20	The ASACUSA CUSP: an antihydrogen experiment. Hyperfine Interactions, 2015, 235, 13-20.	0.5	5
21	Profiles of a positronium beam produced using the photodetachment of positronium negative ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 785, 5-8.	1.6	5
22	The simplest three body system: Positronium negative ions. , 2014, , .		1
23	A source of antihydrogen for in-flight hyperfine spectroscopy. Nature Communications, 2014, 5, 3089.	12.8	149
24	Towards a spin polarized antihydrogen beam. Hyperfine Interactions, 2014, 228, 67-76.	0.5	1
25	Positronium and positronium negative ion emission from alkali-metal coated tungsten surfaces. Journal of Physics: Conference Series, 2014, 505, 012037.	0.4	1
26	Towards the production of anti-hydrogen beams. , 2013, , .		0
27	New experiment stations at KEK Slow Positron Facility. Journal of Physics: Conference Series, 2013, 443, 012082.	0.4	13
28	Durable emission of positronium negative ions from Na- and K-coated W(100) surfaces. New Journal of Physics, 2012, 14, 015003.	2.9	30
29	An energy-tunable positronium beam produced using the photodetachment of the positronium negative ion. Applied Physics Letters, 2012, 100, .	3.3	32
30	Development of a monoenergetic ultraslow antiproton beam source for high-precision investigation. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	24
31	Positronium negative ion experiments â€“ formation, photodetachment and production of an energy tunable positronium beamâ€“. Journal of Physics: Conference Series, 2012, 388, 012021.	0.4	5
32	Antihydrogen atom formation in a CUSP trap towards spin polarized beams. Hyperfine Interactions, 2012, 212, 31-40.	0.5	0
33	Increase in the beam intensity of the linac-based slow positron beam and its application at the Slow Positron Facility, KEK. European Physical Journal D, 2012, 66, 1.	1.3	42
34	Synthesis of antihydrogen atoms in a CUSP trap. Hyperfine Interactions, 2012, 209, 35-41.	0.5	3
35	Synthesis of antihydrogen atoms in a CUSP trap. , 2012, , 35-41.		0
36	Antihydrogen atom formation in a CUSP trap towards spin polarized beams. , 2012, , 31-40.		0

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37	Psâ˜emission from Na coated W(100) surfaces. Journal of Physics: Conference Series, 2011, 262, 012058.	0.4	5
38	Towards the production of an energy-tunable positronium beam using Ps^{â˜}photodetachment technique. Journal of Physics: Conference Series, 2011, 262, 012041.	0.4	3
39	Photodetachment of Positronium Negative Ions. Physical Review Letters, 2011, 106, 153401.	7.8	55
40	Ps^{â˜}emission from Cs coated surfaces. Journal of Physics: Conference Series, 2010, 199, 012003.	0.4	6
41	Positron accumulation and manipulation for antihydrogen synthesis. Journal of Physics: Conference Series, 2010, 225, 012018.	0.4	7
42	Synthesis of Cold Antihydrogen in a Cusp Trap. Physical Review Letters, 2010, 105, 243401.	7.8	135
43	ASACUSA MUSASHI: New progress with intense ultra slow antiproton beam. Hyperfine Interactions, 2009, 194, 71-76.	0.5	8
44	Emission of positronium negative ions from Cs deposited W(100) and polycrystalline Fe surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2291-2294.	0.8	7
45	Efficient formation of positronium negative ions. Journal of Physics: Conference Series, 2009, 194, 012039.	0.4	11
46	Developments of the cusp trap to synthesize antihydrogen atoms for high precision spectroscopy of ground state hyperfine splitting. Journal of Physics: Conference Series, 2009, 194, 072018.	0.4	0
47	Efficient emission of positronium negative ions from Cs deposited W(100) surfaces. New Journal of Physics, 2008, 10, 123029.	2.9	50
48	Spontaneous Emission of Positronium Negative Ions from Tungsten (100) Surface. Materials Science Forum, 0, 607, 161-165.	0.3	1
49	Development of energy-tunable positronium beams employing the photodetachment of positronium negative ions. , 0, , .		0
50	Development of a high-brightness, energy-tunable positronium beam for surface scattering experiments. , 0, , .		0