Manfred Grieser

List of Publications by Year
in descending order

31	929	567281 15	434195 31
papers	citations	h-index	g-index

31	31	31	750
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dissociative recombination ofCH+: Cross section and final states. Physical Review A, 1996, 54, 4032-4050.	2.5	117
2	Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117.	2.6	101
3	High-precision measurement of the magnetic-dipole decay rate of metastable heliumlike carbon ions in a storage ring. Physical Review Letters, 1994, 72, 1616-1619.	7.8	97
4	The cryogenic storage ring CSR. Review of Scientific Instruments, 2016, 87, 063115.	1.3	67
5	Electron cooling and recombination experiments with an adiabatically expanded electron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 369, 11-22.	1.6	64
6	A cryogenic electrostatic trap for long-time storage of keV ion beams. Review of Scientific Instruments, 2010, 81, 055105.	1.3	64
7	A residual-gas ionization beam profile monitor for the Heidelberg Test Storage Ring TSR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 343, 401-414.	1.6	55
8	The electrostatic Cryogenic Storage Ring CSR â€“ Mechanical concept and realization. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2871-2874.	1.4	49
9	Quantum-stateâ€“selective electron recombination studies suggest enhanced abundance of primordial HeH ⁺. Science, 2019, 365, 676-679.	12.6	42
10	Physics with colder molecular ions: The Heidelberg Cryogenic Storage Ring CSR. Journal of Physics: Conference Series, 2005, 4, 296-299.	0.4	39
11	Radiative Rotational Lifetimes and State-Resolved Relative Detachment Cross Sections from Photodetachment Thermometry of Molecular Anions in a Cryogenic Storage Ring. Physical Review Letters, 2017, 119, 023202.	7.8	38
12	Photodissociation of an Internally Cold Beam of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>CH</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math>in a Cryogenic Storage Ring. Physical Review Letters, 2016, 116, 113002.	7.8	34
13	Role of Projectile Coherence in Close Heavy Ion-Atom Collisions. Physical Review Letters, 2013, 110, 113201.	7.8	27
14	Recombination in electron coolers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 441, 183-190.	1.6	25
15	Rotational Cooling ofHD+Molecular Ions by Superelastic Collisions with Electrons. Physical Review Letters, 2009, 102, 223202.	7.8	24
16	An efficient, movable single-particle detector for use in cryogenic ultra-high vacuum environments. Review of Scientific Instruments, 2015, 86, 023303.	1.3	13
17	Study of rectangular beam folded waveguide traveling-wave tube for terahertz radiation. Physics of Plasmas, 2017, 24, .	1.9	11
18	Metastable states of Siâ¯ observed in a cryogenic storage ring. Physical Review A, 2021, 104, .	2.5	9

#	Article	IF	Citations
19	3-D Nonlinear Theory for Sheet-Beam Folded-Waveguide Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2018, 65, 5103-5110.	3.0	8
20	Laser Probing of the Rotational Cooling of Molecular Ions by Electron Collisions. Physical Review Letters, 2022, 128, 183402.	7.8	8
21	The Cryogenic Storage Ring and its application to molecular ion recombination physics. Journal of Physics: Conference Series, 2011, 300, 012010.	0.4	6
22	Storage ring cross section measurements for electron impact ionization of Fe⁸⁺. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 084006.	1.5	6
23	Transverse electron cooling of heavy molecular ions. Physical Review Accelerators and Beams, 2021, 24, .	1.6	5
24	Single-particle detection of products from atomic and molecular reactions in a cryogenic ion storage ring. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 851, 92-102.	1.6	4
25	Dissociative Recombination Measurements of Chloronium Ions (D₂Cl⁺) Using an Ion Storage Ring. Astrophysical Journal, 2018, 862, 166.	4.5	4
26	Cryogenic Concept for the Low-energy Electrostatic Cryogenic Storage Ring (CSR) at MPI-K in Heidelberg. AIP Conference Proceedings, 2006, , .	0.4	3
27	Transfer matrix calculation for ion optical elements using real fields. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 885, 124-133.	1.6	3
28	An ion-atom merged beams setup at the Cryogenic Storage Ring. Review of Scientific Instruments, 2022, 93, .	1.3	2
29	Isochronous mass spectrometry in an electrostatic storage ring. Review of Scientific Instruments, 2022, 93, .	1.3	2
30	The cryogenic storage ring CSR for collision experiments with state-controlled and phase-space cooled molecular ion beams. Journal of Physics: Conference Series, 2015, 635, 072059.	0.4	1
31	The phase slip factor of the electrostatic cryogenic storage ring CSR. Journal of Physics: Conference Series, 2017, 874, 012049.	0.4	1