

# Manfred Grieser

## List of Publications by Year in descending order

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434195

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all docs

31  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Probing of the Rotational Cooling of Molecular Ions by Electron Collisions. Physical Review Letters, 2022, 128, 183402.	7.8	8
2	An ion-atom merged beams setup at the Cryogenic Storage Ring. Review of Scientific Instruments, 2022, 93, .	1.3	2
3	Isochronous mass spectrometry in an electrostatic storage ring. Review of Scientific Instruments, 2022, 93, .	1.3	2
4	Transverse electron cooling of heavy molecular ions. Physical Review Accelerators and Beams, 2021, 24, .	1.6	5
5	Metastable states of Si <sup>2+</sup> observed in a cryogenic storage ring. Physical Review A, 2021, 104, .	2.5	9
6	Quantum-state-selective electron recombination studies suggest enhanced abundance of primordial HeH <sup>+</sup> . Science, 2019, 365, 676-679.	12.6	42
7	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
8	Dissociative Recombination Measurements of Chloronium Ions (D <sub>2</sub> Cl <sup>+</sup> ) Using an Ion Storage Ring. Astrophysical Journal, 2018, 862, 166.	4.5	4
9	3-D Nonlinear Theory for Sheet-Beam Folded-Waveguide Traveling-Wave Tubes. IEEE Transactions on Electron Devices, 2018, 65, 5103-5110.	3.0	8
10	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
11	Study of rectangular beam folded waveguide traveling-wave tube for terahertz radiation. Physics of Plasmas, 2017, 24, .	1.9	11
12	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
13	The phase slip factor of the electrostatic cryogenic storage ring CSR. Journal of Physics: Conference Series, 2017, 874, 012049.	0.4	1
14	The cryogenic storage ring CSR. Review of Scientific Instruments, 2016, 87, 063115.	1.3	67
15	Storage ring cross section measurements for electron impact ionization of Fe <sup>8+</sup> . Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 084006.	1.5	6
16	Photodissociation of an Internally Cold Beam of $\text{CH}^+$ in a Cryogenic Storage Ring. Physical Review Letters, 2016, 116, 113002.	7.8	31
17	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
18	An efficient, movable single-particle detector for use in cryogenic ultra-high vacuum environments. Review of Scientific Instruments, 2015, 86, 023303.	1.3	13

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19	Role of Projectile Coherence in Close Heavy Ion-Atom Collisions. <i>Physical Review Letters</i> , 2013, 110, 113201.	7.8	27
20	Storage ring at HIE-ISOLDE. <i>European Physical Journal: Special Topics</i> , 2012, 207, 1-117.	2.6	101
21	The Cryogenic Storage Ring and its application to molecular ion recombination physics. <i>Journal of Physics: Conference Series</i> , 2011, 300, 012010.	0.4	6
22	The electrostatic Cryogenic Storage Ring CSR – Mechanical concept and realization. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2871-2874.	1.4	49
23	A cryogenic electrostatic trap for long-time storage of keV ion beams. <i>Review of Scientific Instruments</i> , 2010, 81, 055105.	1.3	64
24	Rotational Cooling of HD <sup>+</sup> Molecular Ions by Superelastic Collisions with Electrons. <i>Physical Review Letters</i> , 2009, 102, 223202.	7.8	24
25	Cryogenic Concept for the Low-energy Electrostatic Cryogenic Storage Ring (CSR) at MPI-K in Heidelberg. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3
26	Physics with colder molecular ions: The Heidelberg Cryogenic Storage Ring CSR. <i>Journal of Physics: Conference Series</i> , 2005, 4, 296-299.	0.4	39
27	Recombination in electron coolers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 441, 183-190.	1.6	25
28	Electron cooling and recombination experiments with an adiabatically expanded electron beam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 369, 11-22.	1.6	64
29	Dissociative recombination of CH <sup>+</sup> : Cross section and final states. <i>Physical Review A</i> , 1996, 54, 4032-4050.	2.5	117
30	High-precision measurement of the magnetic-dipole decay rate of metastable heliumlike carbon ions in a storage ring. <i>Physical Review Letters</i> , 1994, 72, 1616-1619.	7.8	97
31	A residual-gas ionization beam profile monitor for the Heidelberg Test Storage Ring TSR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994, 343, 401-414.	1.6	55