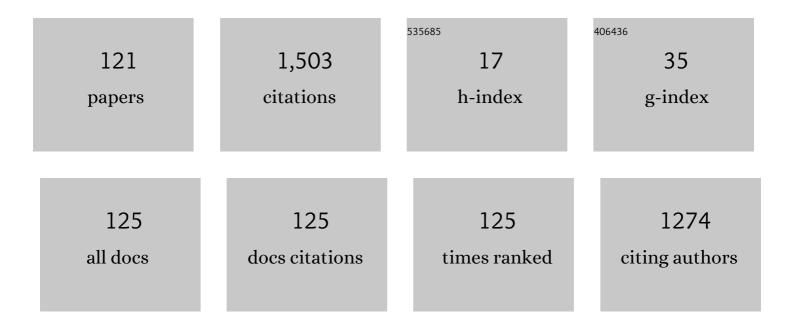
Massimiliano Romé

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Coexistence of Plasmoid and Kelvin–Helmholtz Instabilities in Collisionless Plasma Turbulence. Astrophysical Journal, 2022, 929, 62.	1.6	5
2	Optimization of ion transport in a combined RFQ Cooler with axial magnetic field. Journal of Physics: Conference Series, 2022, 2244, 012064.	0.3	0
3	An Interferometric Method for Particle Mass Measurements. Symmetry, 2021, 13, 1232.	1.1	1
4	The QUPLAS experimental apparatus for antimatter interferometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 951, 163019.	0.7	5
5	Sensitivity of emulsion detectors to low energy positrons. Journal of Instrumentation, 2020, 15, P03027-P03027.	0.5	4
6	Real-time monitoring of a positron beam using a microchannel plate in single-particle mode. Journal of Instrumentation, 2020, 15, P11030-P11030.	0.5	4
7	Beam and installation improvements of the NIO1 ion source. Review of Scientific Instruments, 2020, 91, 013316.	0.6	7
8	Laser-driven proton acceleration via excitation of surface plasmon polaritons into TiO ₂ nanotube array targets. Plasma Physics and Controlled Fusion, 2020, 62, 114001.	0.9	15
9	Intense proton acceleration in ultrarelativistic interaction with nanochannels. Physical Review Research, 2020, 2, .	1.3	18
10	Overview of first Wendelstein 7-X high-performance operation. Nuclear Fusion, 2019, 59, 112004.	1.6	165
11	MariX, an advanced MHz-class repetition rate X-ray source for linear regime time-resolved spectroscopy and photon scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 930, 167-172.	0.7	29
12	Forward modeling of collective Thomson scattering for Wendelstein 7-X plasmas: Electrostatic approximation. Review of Scientific Instruments, 2019, 90, 023501.	0.6	6
13	Development and installation of a radio frequency quadrupole cooler test. Review of Scientific Instruments, 2019, 90, 113324.	0.6	2
14	Light Ion Accelerating Line (L3IA): Test experiment at ILIL-PW. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 160-163.	0.7	8
15	Towards a new image processing system at Wendelstein 7-X: From spatial calibration to characterization of thermal events. Review of Scientific Instruments, 2018, 89, 123503.	0.6	14
16	Extraction of many Hâ^' beamlets from ion source NIO1. AIP Conference Proceedings, 2018, , .	0.3	0
17	Magnetic configuration effects on the Wendelstein 7-X stellarator. Nature Physics, 2018, 14, 855-860.	6.5	110
18	RF-generated trapped plasmas: Partial neutralization, vortex formation and active control. AIP	0.3	1

Conference Proceedings, 2018, , .

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#	Article	IF	CITATIONS
19	Coherent structures and turbulence evolution in magnetized non-neutral plasmas. AIP Conference Proceedings, 2018, , .	0.3	0
20	Generation and Active Control of Coherent Structures in Partially-Neutralized Magnetized Plasmas. , 2018, , 169-179.		0
21	Major results from the first plasma campaign of the Wendelstein 7-X stellarator. Nuclear Fusion, 2017, 57, 102020.	1.6	128
22	Spectral analysis of forced turbulence in a non-neutral plasma. Journal of Plasma Physics, 2017, 83, .	0.7	4
23	Structures and turbulent relaxation in non-neutral plasmas. Plasma Physics and Controlled Fusion, 2017, 59, 014036.	0.9	5
24	Detection of low energy antimatter with emulsions. Journal of Instrumentation, 2016, 11, P06017-P06017.	0.5	9
25	Wavelet characterization of 2D turbulence and intermittency in magnetized electron plasmas. Plasma Sources Science and Technology, 2016, 25, 035016.	1.3	4
26	Axial heating and temperature of RF-excited non-neutral plasmas in Penning-Malmberg traps. Journal of Instrumentation, 2016, 11, C09007-C09007.	0.5	8
27	Integration of RFQ beam coolers and solenoidal magnetic fields. Review of Scientific Instruments, 2016, 87, 02B504.	0.6	1
28	Low-power radio-frequency excitation as a plasma source in a Penning–Malmberg trap: aÂsystematic study. Journal of Plasma Physics, 2015, 81, .	0.7	12
29	Effect of initial conditions on electron–plasma turbulence: a multiresolution analysis. Journal of Plasma Physics, 2015, 81, .	0.7	7
30	Trapped electron plasma formation and equilibrium with a low-power radio-frequency drive. AIP Conference Proceedings, 2015, , .	0.3	2
31	Effects of dust contamination on the transverse dynamics of a magnetized electron plasma. AIP Conference Proceedings, 2015, , .	0.3	7
32	A Hamiltonian fluid-kinetic model for a two-species non-neutral plasma. Physics of Plasmas, 2014, 21, 044504.	0.7	1
33	Diocotron modulation in an electron plasma through continuous radio-frequency excitation. Physics of Plasmas, 2014, 21, 122102.	0.7	14
34	Plasma-beam traps and radiofrequency quadrupole beam coolers. Review of Scientific Instruments, 2014, 85, 02B909.	0.6	23
35	Numerical study of a dust-contaminated electron plasma. European Physical Journal D, 2014, 68, 1.	0.6	8
36	Technical challenges in the construction of the steady-state stellarator Wendelstein 7-X. Nuclear Fusion, 2013, 53, 126001.	1.6	77

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37	Scaling properties and intermittency of two-dimensional turbulence in pure electron plasmas. Physical Review E, 2013, 87, 063110.	0.8	10
38	Experimental and numerical investigation of non-neutral complex plasmas. AIP Conference Proceedings, 2013, , .	0.3	5
39	Analysis of the two-dimensional turbulence in pure electron plasmas by means of advanced statistical techniques. , 2013, , .		1
40	Development of diagnostic and manipulation systems for space-charge dominated electron beams and confined electron plasmas in ELTRAP. AIP Conference Proceedings, 2013, , .	0.3	1
41	Photon neutralizer as an example of an open billiard. Physical Review E, 2013, 87, 013111.	0.8	3
42	Electron cyclotron resonance near the axis of a quadrupole linear trap. Physics of Plasmas, 2012, 19, 122509.	0.7	3
43	Thomson backscattering diagnostic set-up for the study of nanosecond electron bunches in high space-charge regime. Journal of Instrumentation, 2012, 7, P01008-P01008.	0.5	1
44	Turbulence and coherent structures in non-neutral plasmas. European Physical Journal Plus, 2011, 126, 1.	1.2	12
45	Stabilizing effect of a nonresonant radio frequency drive on the m=1 diocotron instability. Physics of Plasmas, 2011, 18, .	0.7	8
46	Transport induced by symmetry breaking in a nonneutral plasma. AIP Conference Proceedings, 2010, , .	0.3	1
47	Non-Resonant Dynamic Stabilization of the mâ \in ‰=â \in ‰1 Diocotron Mode. , 2010, , .		0
48	Proper Orthogonal Decomposition of two-dimensional turbulence in a pure electron plasma. , 2010, , .		0
49	Radio Frequency Generation of an Electron Plasma in a Malmberg-Penning Trap. , 2010, , .		1
50	Longitudinal Space Charge Effects in Bunched Electron Beams Travelling through a Malmberg-Penning Trap. , 2010, , .		1
51	Relativistic thermal equilibrium of non-neutral plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4864-4871.	0.9	0
52	Broadband radio frequency plasma generation in a Penning–Malmberg trap. Plasma Sources Science and Technology, 2010, 19, 045013.	1.3	13
53	Electrostatic diagnostics of nanosecond pulsed electron beams in a Malmberg–Penning trap. Review of Scientific Instruments, 2010, 81, 063503.	0.6	7
54	Excitation of the l=3 diocotron mode in a pure electron plasma by means of a rotating electric field. Journal of Applied Physics, 2009, 105, 053303.	1.1	8

#	Article	IF	CITATIONS
55	Fast electrostatic diagnostic of an electron beam in a Penning-Malmberg trap. , 2009, , .		Ο
56	Excitation of high order diocotron modes in the ELTRAP device. , 2009, , .		0
57	Multiresolution analysis of the two-dimensional free decaying turbulence in a pure electron plasma. New Journal of Physics, 2009, 11, 053006.	1.2	8
58	Characterization of a pulsed electron beam with a planar charge collector. Journal Physics D: Applied Physics, 2009, 42, 175203.	1.3	6
59	Effect of a Weakly Tilted Magnetic Field on the Equilibrium of Nonneutral Plasmas in a Malmberg-Penning Trap. , 2009, , .		0
60	Relativistic Effects on the Equilibrium of Electron Plasmas. Fusion Science and Technology, 2009, 55, 140-143.	0.6	2
61	Equilibrium of Nonneutral Plasmas in a Malmberg-Penning Trap with a Tilted Magnetic Field. Fusion Science and Technology, 2009, 55, 205-208.	0.6	0
62	On the relativistic cold fluid radial equilibrium of a nonneutral plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1445-1450.	0.9	8
63	Relativistic cold fluid radial equilibrium of an annular nonneutral plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2450-2458.	0.9	2
64	Low-noise techniques for electrostatic diagnostics on a pure electron plasma. Measurement Science and Technology, 2008, 19, 085703.	1.4	4
65	Equilibrium of non-neutral plasmas in a Malmberg–Penning trap with a weakly tilted magnetic field. Physics of Plasmas, 2008, 15, .	0.7	3
66	Admissible Equilibria of Non-neutral Plasmas in a Malmberg-Penning Trap. Physical Review Letters, 2008, 101, 085006.	2.9	2
67	Excitation of the l=2 diocotron mode with a resistive load. Physics of Plasmas, 2008, 15, 032102.	0.7	11
68	Experimental and numerical analysis of the electron injection in a Malmberg-Penning trap. Physics of Plasmas, 2007, 14, 042104.	0.7	19
69	Excitation of the l=2 azimuthal mode in a pure electron plasma. Physics of Plasmas, 2007, 14, 102103.	0.7	11
70	<title>Status of the <emph type="1">SPARX</emph> FEL project</title> ., 2007, , .		0
71	Equilibrium of Charged Plasmas with Weak Axisymmetric Magnetic Perturbations. Fusion Science and Technology, 2007, 51, 238-240.	0.6	2
72	Ionization adiabat. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 471-473.	0.9	1

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#	Article	IF	CITATIONS
73	INVESTIGATION OF FREE DECAYING TURBULENCE IN A TRAPPED PURE ELECTRON PLASMA. , 2007, , .		1
74	Equilibrium of non-neutral plasmas with weak axisymmetric magnetic perturbations. AIP Conference Proceedings, 2006, , .	0.3	0
75	Compressional diocotron instability in a non-neutral plasma with a stationary point in the rotation frequency profile. AIP Conference Proceedings, 2006, , .	0.3	Ο
76	Analysis of the electron injection in a Malmberg-Penning trap. AIP Conference Proceedings, 2006, , .	0.3	0
77	Active control of the ion-resonance instability in a trapped pure electron plasma. AIP Conference Proceedings, 2006, , .	0.3	Ο
78	The â€~electron-root' feature in the WENDELSTEIN-7-AS stellarator with ECRH in O1-mode compared to X2-mode. Plasma Physics and Controlled Fusion, 2006, 48, 353-368.	0.9	13
79	Non-neutral plasma equilibria with weak axisymmetric magnetic perturbations. Physics of Plasmas, 2006, 13, 092108.	0.7	5
80	Active control of the ion resonance instability by ion removing fields. Physics of Plasmas, 2006, 13, 112102.	0.7	8
81	<title>SPARC/X Projects</title> ., 2005, , .		0
82	MEP: A 3D PIC code for the simulation of the dynamics of a non-neutral plasma. Journal of Computational Physics, 2005, 209, 406-420.	1.9	10
83	Experimental investigation of the ion resonance instability in a trapped electron plasma. Plasma Physics and Controlled Fusion, 2005, 47, 1697-1708.	0.9	24
84	Diocotron instability in non-neutral plasmas with a stationary point in the rotation frequency profile. Physics of Plasmas, 2005, 12, 092105.	0.7	4
85	Electron cyclotron current drive in the Wendelstein 7-AS stellarator. Plasma Physics and Controlled Fusion, 2005, 47, 1137-1163.	0.9	26
86	Coherent structures in the ELTRAP experiment. AIP Conference Proceedings, 2004, , .	0.3	0
87	Experimental investigation of coherent structures in a low-energy electron beam. Applied Physics Letters, 2004, 84, 3807-3809.	1.5	10
88	The SPARC/X SASE-FEL Projects. Laser and Particle Beams, 2004, 22, 341-350.	0.4	8
89	Status of the SPARC project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 586-590.	0.7	24
90	The SPARC project: a high-brightness electron beam source at LNF to drive a SASE-FEL experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 507, 345-349.	0.7	50

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#	Article	IF	CITATIONS
91	Cylindrical Penning trap for the study of electron plasmas. Review of Scientific Instruments, 2003, 74, 3991-3997.	0.6	33
92	Coherent Structures in low Energy Electron Beams in ELTRAP. AIP Conference Proceedings, 2003, , .	0.3	0
93	A new 3D PIC Code for the Simulation of the Dynamics of a Non-Neutral Plasma. AIP Conference Proceedings, 2003, , .	0.3	2
94	20 years of ECRH at W7-A and W7-AS. Nuclear Fusion, 2003, 43, 1313-1323.	1.6	20
95	Comparison of high-field-side and low-field-side launch ECCD in the W7-AS stellarator. Plasma Physics and Controlled Fusion, 2003, 45, 783-792.	0.9	3
96	Diocotron Instability in ELTRAP. AIP Conference Proceedings, 2003, , .	0.3	1
97	l=1 diocotron instability of single charged plasmas in a cylindrical Penning trap with central conductor. AIP Conference Proceedings, 2002, , .	0.3	0
98	Status of the Eltrap project. AIP Conference Proceedings, 2002, , .	0.3	0
99	Experimental and numerical study of asymmetric vortex merger in a pure electron plasma. AIP Conference Proceedings, 2002, , .	0.3	1
100	l=1 diocotron instability of single charged plasmas. Plasma Physics Reports, 2002, 28, 141-157.	0.3	9
101	Asymmetric vortex merger: Experiments and simulations. Physics of Plasmas, 2001, 8, 3865-3868.	0.7	23
102	Thermodynamic equilibrium of pure electron plasmas in a Malmberg-Penning trap. Plasma Physics Reports, 2000, 26, 960-964.	0.3	4
103	5-D simulation study of suprathermal electron transport in non-axisymmetric plasmas. Nuclear Fusion, 2000, 40, 693-700.	1.6	63
104	Motion of extended vortices in an inhomogeneous pure electron plasma. Physics of Plasmas, 2000, 7, 2856-2865.	0.7	12
105	Thermodynamic equilibrium of hollow non-neutral plasmas. Physics of Plasmas, 2000, 7, 4396-4402.	0.7	9
106	The neoclassical "Electron Root―feature in the Wendelstein-7-AS stellarator. Physics of Plasmas, 2000, 7, 295-311.	0.7	106
107	Dynamics of coherent structures in a Penning-Malmberg trap with 2D Vlasov simulations. , 1999, , .		0

A 2D Vlasov code for the electron dynamics in a Penning-Malmberg trap. , 1999, , .

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#	Article	IF	CITATIONS
109	Transport analysis through heat waves driven at different radial positions. Plasma Physics and Controlled Fusion, 1998, 40, 233-244.	0.9	11
110	Electron cyclotron resonance heating and current drive in the W7-X stellarator. Plasma Physics and Controlled Fusion, 1998, 40, 511-530.	0.9	41
111	High harmonic electron cyclotron resonance heating in the Large Helical Device. Nuclear Fusion, 1998, 38, 223-235.	1.6	7
112	Kinetic modelling of the ECRH power deposition in W7-AS. Plasma Physics and Controlled Fusion, 1997, 39, 117-158.	0.9	58
113	Bounce-averaged Fokker-Planck code for the description of ECRH in a periodic magnetic field. Computer Physics Communications, 1997, 103, 145-156.	3.0	16
114	Shear modification by ECCD and related confinement phenomena in W7-AS. AIP Conference Proceedings, 1996, , .	0.3	1
115	Radial electric field measurement in a tokamak by the injection of a pulsed neutral beam. Plasma Physics and Controlled Fusion, 1994, 36, 1805-1817.	0.9	8
116	Quasilinear stochastic electron energy diffusion driven by an intense cyclotron wave in oblique propagation. Physics of Plasmas, 1994, 1, 1871-1876.	0.7	5
117	Limited stochastic electron acceleration induced by an intense cyclotron wave in a plasma. Physical Review E, 1993, 47, R2995-R2998.	0.8	2
118	Adiabatic nonlinear interaction of a localized electron cyclotron wave with a plasma. Physics of Fluids B, 1991, 3, 3065-3073.	1.7	10
119	The Sparc project: a high brightness electron beam source at LNF to drive a SASE-FEL experiment. , 0, , .		5
120	Status of the SPARC Project. , 0, , .		1
121	The Project Plasmonx for Plasma Acceleration Experiments and A Thomson X-Ray Source at SPARC. , 0, ,		8