

# Saul Francesco Garavaglia

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

1,204  
citations

361413

20  
h-index

434195

31  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1489  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Planck</i> pre-launch status: Design and description of the Low Frequency Instrument. Astronomy and Astrophysics, 2010, 520, A4.	5.1	125
2	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
3	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
4	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
5	Overview of JET results. Nuclear Fusion, 2009, 49, 104006.	3.5	46
6	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
7	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
8	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	3.5	38
9	Design considerations for future DEMO gyrotrons: A review on related gyrotron activities within EUROfusion. Fusion Engineering and Design, 2017, 123, 241-246.	1.9	37
10	Dependence on plasma shape and plasma fueling for small edge-localized mode regimes in TCV and ASDEX Upgrade. Nuclear Fusion, 2019, 59, 086020.	3.5	34
11	Overview of JET results. Nuclear Fusion, 2011, 51, 094008.	3.5	33
12	Overview of the TCV tokamak experimental programme. Nuclear Fusion, 2022, 62, 042018.	3.5	30
13	Observation of short time-scale spectral emissions at millimeter wavelengths with the new CTS diagnostic on the FTU tokamak. Nuclear Fusion, 2017, 57, 076004.	3.5	29
14	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
15	Critical issues highlighted by collective Thomson scattering below electron cyclotron resonance in FTU. Nuclear Fusion, 2006, 46, 928-940.	3.5	25
16	Experiments and modeling on FTU tokamak for EC assisted plasma start-up studies in ITER-like configuration. Nuclear Fusion, 2015, 55, 093025.	3.5	23
17	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution <sup>a</sup>. Nuclear Fusion, 2017, 57, 102014.	3.5	23
18	The DTT device: System for heating. Fusion Engineering and Design, 2017, 122, 349-355.	1.9	22

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19	Status and future development of Heating and Current Drive for the EU DEMO. Fusion Engineering and Design, 2022, 180, 113159.	1.9	22
20	Conceptual design of the EU DEMO EC-system: main developments and R&D achievements. Nuclear Fusion, 2017, 57, 116009.	3.5	21
21	Development of real-time MHD markers based on biorthogonal decomposition of signals from Mirnov coils. Plasma Physics and Controlled Fusion, 2014, 56, 114012.	2.1	18
22	EU DEMO EC system preliminary conceptual design. Fusion Engineering and Design, 2018, 136, 1173-1177.	1.9	18
23	Overview of recent gyrotron R&D towards DEMO within EUROfusion Work Package Heating and Current Drive. Nuclear Fusion, 2019, 59, 066014.	3.5	18
24	Integration concept of an Electron Cyclotron System in DEMO. Fusion Engineering and Design, 2021, 168, 112653.	1.9	18
25	Density limit studies in the tokamak and the reversed-field pinch. Nuclear Fusion, 2015, 55, 043007.	3.5	17
26	Advances in the FTU collective Thomson scattering system. Review of Scientific Instruments, 2016, 87, 11E507.	1.3	17
27	Objectives, physics requirements and conceptual design of an ECRH system for JET. Nuclear Fusion, 2011, 51, 063033.	3.5	14
28	Recent progress in the upgrade of the TCV EC-system with two 1MW/2s dual-frequency (84/126GHz) gyrotrons. EPJ Web of Conferences, 2017, 157, 03001.	0.3	14
29	Evolution of the millimeter-wave collective Thomson scattering system of the high-field tokamak Frascati Tokamak Upgrade. Review of Scientific Instruments, 2007, 78, 043506.	1.3	13
30	Development of helium electron cyclotron wall conditioning on TCV. Nuclear Fusion, 2018, 58, 026018.	3.5	13
31	Progress of DTT ECRH system design. Fusion Engineering and Design, 2021, 168, 112678.	1.9	13
32	Initial port integration concept for EC and NB systems in EU DEMO tokamak. Fusion Engineering and Design, 2019, 146, 1642-1646.	1.9	12
33	First operations with the new Collective Thomson Scattering diagnostic on the Frascati Tokamak Upgrade device. Journal of Instrumentation, 2015, 10, P10007-P10007.	1.2	11
34	The upgraded Collective Thomson Scattering diagnostics of FTU. Fusion Engineering and Design, 2015, 96-97, 733-737.	1.9	11
35	Review of the Innovative H&CD Designs and the Impact of Their Configurations on the Performance of the EU DEMO Fusion Power Plant Reactor. IEEE Transactions on Plasma Science, 2018, 46, 1633-1640.	1.3	11
36	Overview of the FTU results. Nuclear Fusion, 2015, 55, 104005.	3.5	10

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37	The Low Frequency Instrument in the ESA Planck mission. AIP Conference Proceedings, 2004, , .	0.4	9
38	The Planck-LFI flight model composite waveguides. Journal of Instrumentation, 2009, 4, T12007-T12007.	1.2	9
39	The Planck-LFI flight model ortho-mode transducers. Journal of Instrumentation, 2009, 4, T12005-T12005.	1.2	9
40	Preliminary conceptual design of DEMO EC system. AIP Conference Proceedings, 2015, , .	0.4	9
41	Measure of electron cyclotron emission at multiple angles in high Te plasmas of JET. Review of Scientific Instruments, 2010, 81, 10D937.	1.3	8
42	Installation, integration and power tests of the new fast ECRH launcher of FTU. Fusion Engineering and Design, 2013, 88, 998-1001.	1.9	8
43	Overview of the FTU results. Nuclear Fusion, 2019, 59, 112015.	3.5	8
44	Overview of the FTU results. Nuclear Fusion, 2017, 57, 102004.	3.5	7
45	Measurements of Electron Velocity Distribution Function (invited paper). AIP Conference Proceedings, 2008, , .	0.4	6
46	Low power tests on the new front steering EC launcher for FTU. Fusion Engineering and Design, 2011, 86, 942-946.	1.9	6
47	Antenna system analysis and design for automatic detection and real-time tracking of electron Bernstein waves in FTU. Journal of Instrumentation, 2014, 9, P05001-P05001.	1.2	6
48	High-efficiency, long-pulse operation of MW-level dual-frequency gyrotron, 84/126GHz, for the TCV Tokamak. , 2019, , .		6
49	Imaging of Turbulent Structures and Tomographic Reconstruction of GyM Plasma Emissivity. Fusion Science and Technology, 2012, 62, 428-435.	1.1	5
50	Experiments on magneto-hydrodynamics instabilities with ECH/ECCD in FTU using a minimal real-time control system. Nuclear Fusion, 2015, 55, 083010.	3.5	5
51	Preliminary conceptual design of the DTT EC heating system. Fusion Engineering and Design, 2019, 146, 203-206.	1.9	5
52	EU DEMO EC equatorial launcher pre-conceptual performance studies. Fusion Engineering and Design, 2020, 156, 111594.	1.9	5
53	Assessment of the Performance of Different Cooling Configurations for the Launcher Mirrors of the ECRH System of the DTT Facility. IEEE Transactions on Plasma Science, 2022, 50, 4054-4059.	1.3	5
54	ECRH for JET: A feasibility study. Fusion Engineering and Design, 2011, 86, 805-809.	1.9	4

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55	A fast multichannel Martin-Puplett interferometer for electron cyclotron emission measurements on JET. Review of Scientific Instruments, 2011, 82, 113506.	1.3	4
56	An overview of FTU results. Nuclear Fusion, 2013, 53, 104012.	3.5	4
57	The EC-system of EU DEMO: concepts for a reactor heating system. EPJ Web of Conferences, 2017, 149, 03003.	0.3	4
58	Side emissions during EC injection for PDI studies in FTU tokamak. EPJ Web of Conferences, 2019, 203, 02005.	0.3	4
59	Mechanical realization of a multichannel Martin-Puplett interferometer for perpendicular and oblique ECE measurements on JET. Fusion Engineering and Design, 2007, 82, 1224-1230.	1.9	3
60	In vessel characterization and first power tests on plasma of the Real-Time controllable EC launcher on FTU Tokamak. EPJ Web of Conferences, 2012, 32, 02018.	0.3	3
61	Progress in conceptual design of EU DEMO EC system. EPJ Web of Conferences, 2017, 147, 04002.	0.3	3
62	European research activities towards a future DEMO gyrotron. EPJ Web of Conferences, 2017, 149, 04007.	0.3	3
63	New receiving line for the remote-steering antenna of the 140 GHz CTS diagnostics in the FTU Tokamak. Journal of Instrumentation, 2018, 13, C01012-C01012.	1.2	3
64	Megawatt power generation of the dual-frequency gyrotron for TCV at 84 and 126 GHz, in long pulses. AIP Conference Proceedings, 2020, , .	0.4	3
65	Measurements of Beam Pattern Perturbation in Corrugated Feed Horn Arrays for CMB Observations. Experimental Astronomy, 2003, 16, 165-187.	3.7	2
66	Calibration and testing of the Planck-LFI QM instrument. , 2006, , .		2
67	Quasi-optical interface system for JET's new microwave access. Fusion Engineering and Design, 2007, 82, 27-33.	1.9	2
68	A Real-Time system for data acquisition, elaboration and actuator's control for magnetohydrodynamics instabilities in the FTU tokamak. , 2012, , .		2
69	The Real-Time system for MHD activity control in the FTU tokamak. EPJ Web of Conferences, 2012, 32, 02003.	0.3	2
70	A real-time data acquisition and elaboration system for instabilities control in the FTU tokamak. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 186-188.	1.6	2
71	Status of ENEA 250 GHz Cyclotron Autoresonance Maser project. , 2015, , .		2
72	Progress on the upgrade of the TCV EC-system with two 1MW dual-frequency gyrotrons. , 2016, , .		2

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73	D-shaped configurations in FTU for testing liquid lithium limiter: Preliminary studies and experiments. Nuclear Materials and Energy, 2017, 12, 1082-1087.	1.3	2
74	From W7-X Towards ITER and Beyond: 2019 Status on EU Fusion Gyrotron Developments. , 2019, , .		2
75	The Heating & Current Drive System of Divertor Tokamak Test (DTT). , 2020, , .		2
76	Basic design considerations for a frequency step-tunable electron cyclotron wave system to suppress NTMs in DEMO. Fusion Engineering and Design, 2021, 173, 112931.	1.9	2
77	Millimeterwave Techniques For Fusion Plasmas And For Experimental Cosmology. AIP Conference Proceedings, 2004, , .	0.4	1
78	Studies on LH-generated Fast Electron Tail Using the Oblique ECE Diagnostic at JET. AIP Conference Proceedings, 2009, , .	0.4	1
79	Fast events detection with the CTS diagnostic on FTU and plans for improvement. EPJ Web of Conferences, 2017, 149, 03017.	0.3	1
80	Design of an Ultra-wide Band Waveguide Transition for the Ex-vessel Transmission Line of ITER Plasma Position Reflectometry. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 131-141.	2.2	1
81	Tracking of neoclassical tearing modes in TCV using the electron cyclotron emission diagnostics in quasi-in-line configuration. Fusion Engineering and Design, 2019, 146, 666-670.	1.9	1
82	Design and implementation of quasi-optical components for the upgrade of the TCV EC-system. Fusion Engineering and Design, 2019, 146, 1747-1750.	1.9	1
83	Towards Advanced Fusion Gyrotrons: 2018 Update on Activities within EUROfusion. EPJ Web of Conferences, 2019, 203, 04007.	0.3	1
84	Neutron streaming analyses and shielding optimization through ECRH openings in DTT Tokamak building. Fusion Engineering and Design, 2021, 171, 112690.	1.9	1
85	FEASIBILITY OF AN ECRH SYSTEM FOR JET: PROJECT OVERVIEW. , 2011, , .		1
86	FEASIBILITY OF AN ECRH SYSTEM FOR JET: PLANT LAYOUT, AUXILIARIES AND SERVICES. , 2011, , .		1
87	In-vessel piezoelectric actuation system for DTT ECRH launchers: Conceptual design. Fusion Engineering and Design, 2022, 180, 113196.	1.9	1
88	Characterization and performance of the planck-LFI flight model passive components. , 2007, , .		0
89	Electromagnetic characterization of the new Martin-Puplett interferometer at JET. , 2007, , .		0
90	The ENEA CARM source for nuclear fusion: Project status and perspectives. , 2014, , .		0

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91	Conceptual design studies of the Electron Cyclotron launcher for DEMO reactor. EPJ Web of Conferences, 2017, 157, 03036.	0.3	0
92	Integration of a secondary line for non-scattering plasma signals and gyrotron's spectrum monitoring. Journal of Instrumentation, 2019, 14, C03003-C03003.	1.2	0
93	The RF heating systems of Italian DTT. AIP Conference Proceedings, 2020, , .	0.4	0
94	MULTI-ANGLE MEASUREMENT OF EC EMISSION BY FAST ELECTRONS: SENSITIVITY STUDY. , 2011, , .		0
95	FEASIBILITY OF AN ECRH SYSTEM FOR JET: TRANSMISSION LINES & WINDOWS. , 2011, , .		0
96	Progress And Prospects Of The FtU Collective Thomson Scattering Diagnostics. , 2016, , .		0