

# Saul Francesco Garavaglia

## List of Publications by Year in descending order

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96  
papers

1,204  
citations

361413

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434195

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g-index

96  
all docs

96  
docs citations

96  
times ranked

1489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the TCV tokamak experimental programme. Nuclear Fusion, 2022, 62, 042018.	3.5	30
2	Status and future development of Heating and Current Drive for the EU DEMO. Fusion Engineering and Design, 2022, 180, 113159.	1.9	22
3	In-vessel piezoelectric actuation system for DTT ECRH launchers: Conceptual design. Fusion Engineering and Design, 2022, 180, 113196.	1.9	1
4	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
5	Progress of DTT ECRH system design. Fusion Engineering and Design, 2021, 168, 112678.	1.9	13
6	Integration concept of an Electron Cyclotron System in DEMO. Fusion Engineering and Design, 2021, 168, 112653.	1.9	18
7	Neutron streaming analyses and shielding optimization through ECRH openings in DTT Tokamak building. Fusion Engineering and Design, 2021, 171, 112690.	1.9	1
8	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
9	The Heating & Current Drive System of Divertor Tokamak Test (DTT)., 2020, , .		2
10	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
11	The RF heating systems of Italian DTT. AIP Conference Proceedings, 2020, , .	0.4	0
12	EU DEMO EC equatorial launcher pre-conceptual performance studies. Fusion Engineering and Design, 2020, 156, 111594.	1.9	5
13	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
14	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	3.5	38
15	Overview of the FTU results. Nuclear Fusion, 2019, 59, 112015.	3.5	8
16	From W7-X Towards ITER and Beyond: 2019 Status on EU Fusion Gyrotron Developments. , 2019, , .		2
17	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
18	High-efficiency, long-pulse operation of MW-level dual-frequency gyrotron, 84/126GHz, for the TCV Tokamak. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
19	Towards Advanced Fusion Gyrotrons: 2018 Update on Activities within EUROfusion. EPJ Web of Conferences, 2019, 203, 04007.	0.3	1
20	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
21	Side emissions during EC injection for PDI studies in FTU tokamak. EPJ Web of Conferences, 2019, 203, 02005.	0.3	4
22	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
23	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
24	Overview of recent gyrotron R&D towards DEMO within EUROfusion Work Package Heating and Current Drive. Nuclear Fusion, 2019, 59, 066014.	3.5	18
25	Initial port integration concept for EC and NB systems in EU DEMO tokamak. Fusion Engineering and Design, 2019, 146, 1642-1646.	1.9	12
26	Preliminary conceptual design of the DTT EC heating system. Fusion Engineering and Design, 2019, 146, 203-206.	1.9	5
27	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
28	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
29	Development of helium electron cyclotron wall conditioning on TCV. Nuclear Fusion, 2018, 58, 026018.	3.5	13
30	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
31	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
32	EU DEMO EC system preliminary conceptual design. Fusion Engineering and Design, 2018, 136, 1173-1177.	1.9	18
33	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
34	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
35	Conceptual design of the EU DEMO EC-system: main developments and R&D achievements. Nuclear Fusion, 2017, 57, 116009.	3.5	21
36	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

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37	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
38	Overview of the FTU results. Nuclear Fusion, 2017, 57, 102004.	3.5	7
39	The DTT device: System for heating. Fusion Engineering and Design, 2017, 122, 349-355.	1.9	22
40	Fast events detection with the CTS diagnostic on FTU and plans for improvement. EPJ Web of Conferences, 2017, 149, 03017.	0.3	1
41	Conceptual design studies of the Electron Cyclotron launcher for DEMO reactor. EPJ Web of Conferences, 2017, 157, 03036.	0.3	0
42	Progress in conceptual design of EU DEMO EC system. EPJ Web of Conferences, 2017, 147, 04002.	0.3	3
43	The EC-system of EU DEMO: concepts for a reactor heating system. EPJ Web of Conferences, 2017, 149, 03003.	0.3	4
44	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
45	European research activities towards a future DEMO gyrotron. EPJ Web of Conferences, 2017, 149, 04007.	0.3	3
46	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
47	Advances in the FTU collective Thomson scattering system. Review of Scientific Instruments, 2016, 87, 11E507.	1.3	17
48	Progress on the upgrade of the TCV EC-system with two 1MW dual-frequency gyrotrons. , 2016, , .		2
49	Progress And Prospects Of The FtU Collective Thomson Scattering Diagnostics. , 2016, , .		0
50	Preliminary conceptual design of DEMO EC system. AIP Conference Proceedings, 2015, , .	0.4	9
51	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
52	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
53	Status of ENEA 250 GHz Cyclotron Autoresonance Maser project. , 2015, , .		2
54	The upgraded Collective Thomson Scattering diagnostics of FTU. Fusion Engineering and Design, 2015, 96-97, 733-737.	1.9	11

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55	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
56	Density limit studies in the tokamak and the reversed-field pinch. Nuclear Fusion, 2015, 55, 043007.	3.5	17
57	Overview of the FTU results. Nuclear Fusion, 2015, 55, 104005.	3.5	10
58	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
59	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
60	The ENEA CARM source for nuclear fusion: Project status and perspectives. , 2014, , .		0
61	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
62	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
63	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
64	Installation, integration and power tests of the new fast ECRH launcher of FTU. Fusion Engineering and Design, 2013, 88, 998-1001.	1.9	8
65	An overview of FTU results. Nuclear Fusion, 2013, 53, 104012.	3.5	4
66	A Real-Time system for data acquisition, elaboration and actuator's control for magnetohydrodynamics instabilities in the FTU tokamak. , 2012, , .		2
67	The Real-Time system for MHD activity control in the FTU tokamak. EPJ Web of Conferences, 2012, 32, 02003.	0.3	2
68	Imaging of Turbulent Structures and Tomographic Reconstruction of GyM Plasma Emissivity. Fusion Science and Technology, 2012, 62, 428-435.	1.1	5
69	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
70	Objectives, physics requirements and conceptual design of an ECRH system for JET. Nuclear Fusion, 2011, 51, 063033.	3.5	14
71	ECRH for JET: A feasibility study. Fusion Engineering and Design, 2011, 86, 805-809.	1.9	4
72	Low power tests on the new front steering EC launcher for FTU. Fusion Engineering and Design, 2011, 86, 942-946.	1.9	6

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73	A fast multichannel Martin-Puplett interferometer for electron cyclotron emission measurements on JET. Review of Scientific Instruments, 2011, 82, 113506.	1.3	4
74	Overview of JET results. Nuclear Fusion, 2011, 51, 094008.	3.5	33
75	FEASIBILITY OF AN ECRH SYSTEM FOR JET: PROJECT OVERVIEW. , 2011, , .		1
76	MULTI-ANGLE MEASUREMENT OF EC EMISSION BY FAST ELECTRONS: SENSITIVITY STUDY. , 2011, , .		0
77	FEASIBILITY OF AN ECRH SYSTEM FOR JET: PLANT LAYOUT, AUXILIARIES AND SERVICES. , 2011, , .		1
78	FEASIBILITY OF AN ECRH SYSTEM FOR JET: TRANSMISSION LINES & WINDOWS. , 2011, , .		0
79	<i>Planck</i> pre-launch status: Design and description of the Low Frequency Instrument. Astronomy and Astrophysics, 2010, 520, A4.	5.1	125
80	Measure of electron cyclotron emission at multiple angles in high Te plasmas of JET. Review of Scientific Instruments, 2010, 81, 10D937.	1.3	8
81	Overview of JET results. Nuclear Fusion, 2009, 49, 104006.	3.5	46
82	Studies on LH-generated Fast Electron Tail Using the Oblique ECE Diagnostic at JET. AIP Conference Proceedings, 2009, , .	0.4	1
83	The Planck-LFI flight model composite waveguides. Journal of Instrumentation, 2009, 4, T12007-T12007.	1.2	9
84	The Planck-LFI flight model ortho-mode transducers. Journal of Instrumentation, 2009, 4, T12005-T12005.	1.2	9
85	Measurements of Electron Velocity Distribution Function (invited paper). AIP Conference Proceedings, 2008, , .	0.4	6
86	Characterization and performance of the planck-LFI flight model passive components. , 2007, , .		0
87	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
88	Electromagnetic characterization of the new Martin-Puplett interferometer at JET. , 2007, , .		0
89	Quasi-optical interface system for JET's new microwave access. Fusion Engineering and Design, 2007, 82, 27-33.	1.9	2
90	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

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91	Calibration and testing of the Planck-LFI QM instrument. , 2006, , .		2
92	Critical issues highlighted by collective Thomson scattering below electron cyclotron resonance in FTU. Nuclear Fusion, 2006, 46, 928-940.	3.5	25
93	The Low Frequency Instrument in the ESA Planck mission. AIP Conference Proceedings, 2004, , .	0.4	9
94	Millimeterwave Techniques For Fusion Plasmas And For Experimental Cosmology. AIP Conference Proceedings, 2004, , .	0.4	1
95	Measurements of Beam Pattern Perturbation in Corrugated Feed Horn Arrays for CMB Observations. Experimental Astronomy, 2003, 16, 165-187.	3.7	2
96	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38