

Emilia R Solano

List of Publications by Year in descending order

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106
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all docs

107
docs citations

107
times ranked

2039
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in H transition studies at JET: tritium, helium, hydrogen and deuterium. Nuclear Fusion, 2022, 62, 076026.	3.5	15
2	Isotope removal experiment in JET-ILW in view of T-removal after the 2nd DT campaign at JET. Physica Scripta, 2022, 97, 044001.	2.5	7
3	Role of NBI fuelling in contributing to density peaking between the ICRH and NBI identity plasmas on JET. Nuclear Fusion, 2022, 62, 066008.	3.5	3
4	The power threshold of H-mode access in mixed hydrogen-tritium and pure tritium plasmas at JET with ITER-like wall. Nuclear Fusion, 2022, 62, 086005.	3.5	8
5	Measuring gross beryllium erosion with visible cameras in JET. Nuclear Fusion, 2022, 62, 126001.	3.5	2
6	Role of the separatrix density in the pedestal performance in deuterium low triangularity JET-ILW plasmas and comparison with JET-C. Nuclear Fusion, 2021, 61, 126054.	3.5	24
7	Impact of divertor configuration on recycling neutral fluxes for ITER-like wall in JET H-mode plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 035006.	2.1	8
8	Observations with fast visible cameras in high power Deuterium plasma experiments in the JET ITER-like wall tokamak. Nuclear Materials and Energy, 2020, 25, 100837.	1.3	5
9	Peculiarity of highly radiating multi-impurity seeded H-mode plasmas on JET with ITER-like wall. Physica Scripta, 2020, T171, 014055.	2.5	10
10	Identity of the JET M-mode and the ASDEX Upgrade I-phase phenomena. Nuclear Fusion, 2020, 60, 056004.	3.5	7
11	Mixed hydrogen-deuterium plasmas on JET ILW. Nuclear Fusion, 2020, 60, 096030.	3.5	6
12	Overview of recent TJ-II stellarator results. Nuclear Fusion, 2019, 59, 112019.	3.5	12
13	Characterisation of highly radiating neon seeded plasmas in JET-ILW. Nuclear Fusion, 2019, 59, 126031.	3.5	37
14	Gyrokinetic analysis and simulation of pedestals to identify the culprits for energy losses using "fingerprints". Nuclear Fusion, 2019, 59, 096001.	3.5	76
15	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
16	Geodesic acoustic mode evolution in L-mode approaching the H transition on JET. Plasma Physics and Controlled Fusion, 2019, 61, 075007.	2.1	6
17	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
18	Radial variation of heat transport in L-mode JET discharges. Nuclear Fusion, 2019, 59, 056006.	3.5	3

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19	Long-lived coupled peeling ballooning modes preceding ELMs on JET. Nuclear Fusion, 2019, 59, 056004.	3.5	11
20	Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall. Journal of Nuclear Materials, 2019, 516, 202-213.	2.7	18
21	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. Nuclear Fusion, 2018, 58, 082005.	3.5	34
22	Neutron spectroscopy measurements of 14 MeV neutrons at unprecedented energy resolution and implications for deuterium-tritium fusion plasma diagnostics. Measurement Science and Technology, 2018, 29, 045502.	2.6	35
23	Isotope effects on L-H threshold and confinement in tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014045.	2.1	98
24	Experimental validation of an analytical kinetic model for edge-localized modes in JET-ITER-like wall. Nuclear Fusion, 2018, 58, 066006.	3.5	20
25	Fusion product losses due to fishbone instabilities in deuterium JET plasmas. Nuclear Fusion, 2018, 58, 014003.	3.5	15
26	Plasma core power exhaust in ELMy H-Mode in JET with ITER-Like Wall. Plasma Physics and Controlled Fusion, 2018, 60, 075004.	2.1	0
27	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. Nuclear Fusion, 2018, 58, 076022.	3.5	20
28	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. Nuclear Fusion, 2018, 58, 106037.	3.5	29
29	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
30	Main chamber wall plasma loads in JET-ITER-like wall at high radiated fraction. Nuclear Materials and Energy, 2017, 12, 234-240.	1.3	7
31	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
32	Impact of divertor geometry on H-mode confinement in the JET metallic wall. Nuclear Fusion, 2017, 57, 086025.	3.5	24
33	An analytical expression for ion velocities at the wall including the sheath electric field and surface biasing for erosion modeling at JET ILW. Nuclear Materials and Energy, 2017, 12, 341-345.	1.3	10
34	Axisymmetric oscillations at L-H transitions in JET: M-mode. Nuclear Fusion, 2017, 57, 022021.	3.5	29
35	Tractable flux-driven temperature, density, and rotation profile evolution with the quasilinear gyrokinetic transport model QuaLiKiz. Plasma Physics and Controlled Fusion, 2017, 59, 124005.	2.1	57
36	Modelling of combined ICRF and NBI heating in JET hybrid plasmas. EPJ Web of Conferences, 2017, 157, 03015.	0.3	7

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37	3D effects on transport and plasma control in the TJ-II stellarator. Nuclear Fusion, 2017, 57, 102022.	3.5	16
38	The Role of Combined ICRF and NBI Heating in JET Hybrid Plasmas in Quest for High D-T Fusion Yield. EPJ Web of Conferences, 2017, 157, 03032.	0.3	8
39	Plasma confinement at JET. Plasma Physics and Controlled Fusion, 2016, 58, 014034.	2.1	28
40	Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. Nuclear Fusion, 2016, 56, 106026.	3.5	24
41	Optimization of ICRH for core impurity control in JET-ILW. Nuclear Fusion, 2016, 56, 036022.	3.5	59
42	Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. Plasma Physics and Controlled Fusion, 2016, 58, 014026.	2.1	20
43	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. Nuclear Fusion, 2016, 56, 026001.	3.5	36
44	Pedestal confinement and stability in JET-ILW ELMy H-modes. Nuclear Fusion, 2015, 55, 113031.	3.5	82
45	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
46	Tungsten transport and sources control in JET ITER-like wall H-mode plasmas. Journal of Nuclear Materials, 2015, 463, 85-90.	2.7	29
47	Transport, stability and plasma control studies in the TJ-II stellarator. Nuclear Fusion, 2015, 55, 104014.	3.5	9
48	ELM frequency feedback control on JET. Nuclear Fusion, 2015, 55, 063004.	3.5	19
49	Global and pedestal confinement in JET with a Be/W metallic wall. Nuclear Fusion, 2014, 54, 043001.	3.5	47
50	Effect of the minority concentration on ion cyclotron resonance heating in presence of the ITER-like wall in JET. , 2014, , .		3
51	Lâ€™H power threshold studies in JET with Be/W and C wall. Nuclear Fusion, 2014, 54, 023007.	3.5	91
52	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
53	Dynamics of flows and confinement in the TJ-II stellarator. Nuclear Fusion, 2013, 53, 104016.	3.5	5
54	Determination of plasma stability using resonant field amplification in JET. Nuclear Fusion, 2012, 52, 083018.	3.5	7

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55	Magnetic phase transitions in plasmas and transport barriers. Nuclear Fusion, 2012, 52, 114017.	3.5	7
56	Overview of TJ-II experiments. Nuclear Fusion, 2011, 51, 094022.	3.5	24
57	Analyses of substantially different plasma current densities and safety factors reconstructed from magnetic diagnostics data. Nuclear Fusion, 2011, 51, 103044.	3.5	13
58	H-mode pedestal scaling in DIII-D, ASDEX Upgrade, and JET. Physics of Plasmas, 2011, 18, 056120.	1.9	76
59	Summary of the Workshop on Electric Fields, Turbulence and Self-organization in Magnetized Plasmas (EFTSOMP) 2009: 6â€“7 July 2009, Sofia, Bulgaria. Nuclear Fusion, 2010, 50, 047001.	3.5	1
60	Inboard and outboard electron temperature profile measurements in JET using ECE diagnostics. Plasma Physics and Controlled Fusion, 2010, 52, 085010.	2.1	18
61	Observation of Confined Current Ribbon in JET Plasmas. Physical Review Letters, 2010, 104, 185003.	7.8	37
62	Variational coordinate transformation in plasma physics. Physics of Plasmas, 2009, 16, 112505.	1.9	0
63	Pedestal width and ELM size identity studies in JET and DIII-D; implications for ITER. Plasma Physics and Controlled Fusion, 2009, 51, 124051.	2.1	44
64	Overview of JET results. Nuclear Fusion, 2009, 49, 104006.	3.5	46
65	Confinement transitions in TJ-II under Li-coated wall conditions. Nuclear Fusion, 2009, 49, 104018.	3.5	75
66	The impact of large ELMs on JET. Journal of Nuclear Materials, 2009, 390-391, 755-759.	2.7	32
67	ELMs and strike point movements. Nuclear Fusion, 2008, 48, 065005.	3.5	14
68	Pedestal and ELM response to impurity seeding in JET advanced scenario plasmas. Nuclear Fusion, 2008, 48, 095004.	3.5	44
69	Formation, sustainment and characteristics of current hole plasmas in DIII-D discharges. Nuclear Fusion, 2008, 48, 015004.	3.5	6
70	Overview of TJ-II experiments. Nuclear Fusion, 2007, 47, S677-S685.	3.5	9
71	Development in the DIII-D tokamak of advanced operating scenarios and associated control techniques for ITER. Nuclear Fusion, 2007, 47, S543-S562.	3.5	27
72	ELMs and strike point jumps. Journal of Nuclear Materials, 2005, 337-339, 747-750.	2.7	16

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73	Overview of TJ-II experiments. Nuclear Fusion, 2005, 45, S266-S275.	3.5	37
74	Development of burning plasma and advanced scenarios in the DIII-D tokamak. Nuclear Fusion, 2005, 45, S86-S97.	3.5	29
75	Criticality of the Grad-Shafranov equation: transport barriers and fragile equilibria. Plasma Physics and Controlled Fusion, 2004, 46, L7-L13.	2.1	16
76	Design of the new magnetic sensors for Joint European Torus. Review of Scientific Instruments, 2004, 75, 4311-4313.	1.3	14
77	The design of a new JET divertor for high triangularity and high current scenarios. Fusion Engineering and Design, 2003, 66-68, 407-411.	1.9	3
78	Diagnosis and study of Alfvén eigenmodes stability in JET (invited). Review of Scientific Instruments, 2003, 74, 1694-1700.	1.3	21
79	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
80	Overview of results and possibilities for fast particle research on JET. Nuclear Fusion, 2002, 42, 1014-1028.	3.5	8
81	The formation and evolution of extreme shear reversal in JET and its influence on local thermal transport*. Plasma Physics and Controlled Fusion, 2002, 44, 1105-1125.	2.1	29
82	Observation of Zero Current Density in the Core of JET Discharges with Lower Hybrid Heating and Current Drive. Physical Review Letters, 2001, 87, 115001.	7.8	137
83	Overview of JET results in support of the ITER physics basis. Nuclear Fusion, 2001, 41, 1327-1340.	3.5	16
84	Experimental Edge Results and Multimachine Comparisons. Contributions To Plasma Physics, 1998, 38, 11-19.	1.1	5
85	Edge parameter operational space and trajectories for ITER. Plasma Physics and Controlled Fusion, 1998, 40, 837-844.	2.1	23
86	A study for the installation of the TEXT heavy-ion beam probe on DIII-D. Review of Scientific Instruments, 1997, 68, 320-323.	1.3	0
87	Analytical tokamak equilibrium for shaped plasmas. Physics of Plasmas, 1996, 3, 1176-1178.	1.9	88
88	Alternative concepts: A report to the Fusion Energy Sciences Advisory Committee. Journal of Fusion Energy, 1996, 15, 249-280.	1.2	2
89	Fast ion orbits in spherical tokamaks. Physics of Plasmas, 1996, 3, 1187-1188.	1.9	8
90	H-mode development in TEXT-U limiter plasmas. Plasma Physics and Controlled Fusion, 1996, 38, 1117-1125.	2.1	9

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91	Vacuum compatible, variable cross-section magnetic coil diagnostic used in digital feedback control of plasma position in TEXT Upgrade. Review of Scientific Instruments, 1995, 66, 461-463.	1.3	5
92	Neoclassical kinetic theory near an X point: Plateau regime. Physics of Plasmas, 1994, 1, 548-551.	1.9	2
93	Rotation in Ohmically heated tokamaks: Experiment and theory. Physics of Fluids B, 1993, 5, 2485-2490.	1.7	10
94	Analytical calculation of neutral transport and its effect on ions. Nuclear Fusion, 1992, 32, 3-14.	3.5	34
95	The effect of charge exchange on plasma flows. Physics of Fluids B, 1992, 4, 2675-2676.	1.7	18
96	Equilibrium analysis of iron core tokamaks using a full domain method. Nuclear Fusion, 1992, 32, 1351-1360.	3.5	113
97	Effect of asymmetric sources on tokamak neoclassical transport in the plateau regime. Physics of Fluids B, 1990, 2, 2113-2117.	1.7	5
98	Effect of Plasma Minor Radius Changes on Tokamak Position Stability. Plasma Physics and Controlled Fusion, 1990, 32, 759-762.	2.1	2
99	Equilibrium and stability studies for an iron core tokamak with a poloidal divertor. Nuclear Fusion, 1990, 30, 1107-1115.	3.5	36
100	Study of transport in the flexible heliac TJ-II. Nuclear Fusion, 1988, 28, 157-168.	3.5	16
101	Poloidal field electromagnetic engineering design for the TEXT upgrade. , 0, , .		0
102	Towards understanding reactor relevant tokamak pedestals. Nuclear Fusion, 0, , .	3.5	6
103	Structure of the JET edge radial electric field in He and D plasmas. Nuclear Fusion, 0, , .	3.5	14
104	L-H transition threshold studies in Helium plasmas at JET. Nuclear Fusion, 0, , .	3.5	9
105	Understanding tungsten erosion during inter/intra-ELM periods in He-dominated JET-ILW plasmas. Physica Scripta, 0, , .	2.5	6
106	Understanding JET-C quiescent phases with edge harmonic magnetohydrodynamic activity and comparison with behaviour under ITER-like wall conditioning. Plasma Physics and Controlled Fusion, 0, , .	2.1	0