Raffaele Albanese

List of Publications by Year
in descending order

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252	5,416	81900	133252
papers	citations	39 h-index	59 g-index

253	253	253	2955
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The linearized CREATE-L plasma response model for the control of current, position and shape in tokamaks. Nuclear Fusion, 1998, 38, 723-738.	3.5	210
2	Principal physics developments evaluated in the ITER design review. Nuclear Fusion, 2009, 49, 065012.	3.5	200
3	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
4	Advances in the physics basis for the European DEMO design. Nuclear Fusion, 2015, 55, 063003.	3.5	122
5	Magnetostatic field computations in terms of two-component vector potentials. International Journal for Numerical Methods in Engineering, 1990, 29, 515-532.	2.8	118
6	Finite Element Methods for the Solution of 3D Eddy Current Problems. Advances in Imaging and Electron Physics, 1997, , 1-86.	0.2	117
7	Solution of three dimensional eddy current problems by integral and differential methods. IEEE Transactions on Magnetics, 1988, 24, 98-101.	2.1	114
8	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
9	CREATE-NL+: A robust control-oriented free boundary dynamic plasma equilibrium solver. Fusion Engineering and Design, 2015, 96-97, 664-667.	1.9	82
10	Magnetic control of plasma current, position, and shape in Tokamaks: a survey or modeling and control approaches. IEEE Control Systems, 2005, 25, 76-92.	0.8	73
11	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
12	Diagnostics for plasma control â€“ From ITER to DEMO. Fusion Engineering and Design, 2019, 146, 465-472.	1.9	71
13	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
14	Integral formulation for 3D eddy-current computation using edge elements. IEE Proceedings A: Physical Science Measurement and Instrumentation Management and Education Reviews, 1988, 135, 457.	0.1	69
15	A model-based technique for integrated real-time profile control in the JET tokamak. Plasma Physics and Controlled Fusion, 2005, 47, 155-183.	2.1	69
16	Plasma modelling for the control of vertical instabilities in tokamaks. Nuclear Fusion, 1989, 29, 1013-1023.	3.5	68
17	The DEMO wall load challenge. Nuclear Fusion, 2017, 57, 046002.	3.5	65
18	Plasma response models for current, shape and position control in JET. Fusion Engineering and Design, 2003, 66-68, 715-718.	1.9	62

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19	Linearly perturbed MHD equilibria and 3D eddy current coupling via the control surface method. Plasma Physics and Controlled Fusion, 2008, 50, 085004.	2.1	60
20	The Fusion Advanced Studies Torus (FAST): a proposal for an ITER satellite facility in support of the development of fusion energy. Nuclear Fusion, 2010, 50, 095005.	3.5	58
21	Resistive wall mode control code maturity: progress and specific examples. Plasma Physics and Controlled Fusion, 2010, 52, 104002.	2.1	58
22	An Integral Computational Model for Crack Simulation and Detection via Eddy Currents. Journal of Computational Physics, 1999, 152, 736-755.	3.8	57
23	Integrated scenario in JET using real-time profile control. Plasma Physics and Controlled Fusion, 2003, 45, A367-A383.	2.1	55
24	Self-consistent simulation of plasma scenarios for ITER using a combination of 1.5D transport codes and free-boundary equilibrium codes. Nuclear Fusion, 2013, 53, 113002.	3.5	55
25	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
26	Progress in physics and control of the resistive wall mode in advanced tokamaks. Physics of Plasmas, 2009, 16, .	1.9	51
27	Initial DEMO tokamak design configuration studies. Fusion Engineering and Design, 2015, 98-99, 1423-1426.	1.9	51
28	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
29	Measurement of the open loop plasma equilibrium response in TCV. Nuclear Fusion, 1999, 39, 663-683.	3.5	49
30	EAST alternative magnetic configurations: modelling and first experiments. Nuclear Fusion, 2015, 55, 083005.	3.5	48
31	Sensitivity of the SHiP experiment to Heavy Neutral Leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	48
32	Comparison of the CREATE-L plasma response model with TCV limited discharges. Nuclear Fusion, 1997, 37, 1395-1410.	3.5	46
33	Overview of JET results. Nuclear Fusion, 2009, 49, 104006.	3.5	46
34	Coupling Between a 3-D Integral Eddy Current Formulation and a Linearized MHD Model for the Analysis of Resistive Wall Modes. IEEE Transactions on Magnetics, 2008, 44, 1654-1657.	2.1	44
35	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
36	Characterisation of plasma breakdown at JET with a carbon and ITER-like wall. Nuclear Fusion, 2013, 53, 053003.	3.5	41

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37	Real-time-capable prediction of temperature and density profiles in a tokamak using RAPTOR and a first-principle-based transport model. Nuclear Fusion, 2018, 58, 096006.	3.5	41
38	Assessment of alternative divertor configurations as an exhaust solution for DEMO. Nuclear Fusion, 2020, 60, 066030.	3.5	41
39	Prediction of the growth rates of VDEs in JET. Nuclear Fusion, 2004, 44, 999-1007.	3.5	40
40	Integrated modelling of H-mode pedestal and confinement in JET-ILW. Plasma Physics and Controlled Fusion, 2018, 60, 014042.	2.1	40
41	Formulation of the eddy-current problem. IEE Proceedings A: Physical Science Measurement and Instrumentation Management and Education Reviews, 1990, 137, 16-22.	0.1	39
42	Wall protection strategies for DEMO plasma transients. Fusion Engineering and Design, 2018, 136, 410-414.	1.9	39
43	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
44	Coupled Three Dimensional Numerical Calculation of Forces and Stresses on the End Windings of Large Turbo Generators via Integral Formulation. IEEE Transactions on Magnetics, 2012, 48, 875-878.	2.1	38
45	The science program of the TCV tokamak: exploring fusion reactor and power plant concepts. Nuclear Fusion, 2015, 55, 104004.	3.5	37
46	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. Nuclear Fusion, 2016, 56, 026001.	3.5	36
47	DTT: a divertor tokamak test facility for the study of the power exhaust issues in view of DEMO. Nuclear Fusion, 2017, 57, 016010.	3.5	36
48	Enhanced performance in fusion plasmas through turbulence suppression by megaelectronvolt ions. Nature Physics, 2022, 18, 776-782.	16.7	36
49	The JET PCU project: An international plasma control project. Fusion Engineering and Design, 2008, 83, 202-206.	1.9	35
50	Neutron spectroscopy measurements of 14 MeV neutrons at unprecedented energy resolution and implications for deuteriumâ€“tritium fusion plasma diagnostics. Measurement Science and Technology, 2018, 29, 045502.	2.6	35
51	Design, implementation and test of the XSC extreme shape controller in JET. Fusion Engineering and Design, 2005, 74, 627-632.	1.9	34
52	XSC Tools: A Software Suite for Tokamak Plasma Shape Control Design and Validation. IEEE Transactions on Plasma Science, 2007, 35, 709-723.	1.3	34
53	Scenario development for the observation of alpha-driven instabilities in JET DT plasmas. Nuclear Fusion, 2018, 58, 082005.	3.5	34
54	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

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55	Plasma Current, Shape, and Position Control in ITER. Fusion Science and Technology, 1996, 30, 167-183.	0.6	33
56	The DTT proposal. A tokamak facility to address exhaust challenges for DEMO: Introduction and executive summary. Fusion Engineering and Design, 2017, 122, 274-284.	1.9	32
57	Numerical procedures for the solution of nonlinear electromagnetic problems. IEEE Transactions on Magnetics, 1992, 28, 1228-1231.	2.1	31
58	Effects of asymmetric vertical disruptions on ITER components. Fusion Engineering and Design, 2015, 94, 7-21.	1.9	31
59	ITER-like vertical stabilization system for the east Tokamak. Nuclear Fusion, 2017, 57, 086039.	3.5	30
60	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. Nuclear Fusion, 2018, 58, 106037.	3.5	29
61	European roadmap to the realization of fusion energy: Mission for solution on heat-exhaust systems. Fusion Engineering and Design, 2015, 96-97, 361-364.	1.9	27
62	Design review for the Italian Divertor Tokamak Test facility. Fusion Engineering and Design, 2019, 146, 194-197.	1.9	27
63	W transport and accumulation control in the termination phase of JET H-mode discharges and implications for ITER. Plasma Physics and Controlled Fusion, 2018, 60, 074008.	2.1	26
64	The experimental facility for the Search for Hidden Particles at the CERN SPS. Journal of Instrumentation, 2019, 14, P03025-P03025.	1.2	26
65	Fast simulation of muons produced at the SHiP experiment using Generative Adversarial Networks. Journal of Instrumentation, 2019, 14, P11028-P11028.	1.2	26
66	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
67	A T formulation for 3D finite element Eddy current computation. IEEE Transactions on Magnetics, 1985, 21, 2299-2302.	2.1	25
68	Next European Torus Physics Basis. Fusion Science and Technology, 1988, 14, 30-48.	0.6	25
69	Upgrade of the present JET shape and vertical stability controller. Fusion Engineering and Design, 2003, 66-68, 803-807.	1.9	25
70	FAST plasma scenarios and equilibrium configurations. Nuclear Fusion, 2009, 49, 055002.	3.5	25
71	Limitations of transient power loads on DEMO and analysis of mitigation techniques. Fusion Engineering and Design, 2016, 109-111, 1067-1071.	1.9	25
72	A nonlinear eddy-current integral formulation for moving bodies. IEEE Transactions on Magnetics, 1998, 34, 2529-2534.	2.1	24

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73	Analysis of Three-Dimensional Electromagnetic Fields Using Edge Elements. Journal of Computational Physics, 1993, 108, 236-245.	3.8	23
74	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution ^a. Nuclear Fusion, 2017, 57, 102014.	3.5	23
75	Overview of the preliminary design of the ITER plasma control system. Nuclear Fusion, 2017, 57, 125001.	3.5	23
76	High fusion performance at highT_i/T_ein JET-ILW baseline plasmas with high NBI heating power and low gas puffing. Nuclear Fusion, 2018, 58, 036020.	3.5	23
77	Measuring fast ions in fusion plasmas with neutron diagnostics at JET. Plasma Physics and Controlled Fusion, 2019, 61, 014027.	2.1	23
78	Role of Italian DTT in the power exhaust implementation strategy. Fusion Engineering and Design, 2019, 146, 932-936.	1.9	23
79	A nonlinear eddy current integral formulation in terms of a two-component current density vector potential. IEEE Transactions on Magnetics, 1996, 32, 784-787.	2.1	22
80	New developments, plasma physics regimes and issues for the Ignitor experiment. Nuclear Fusion, 2013, 53, 104013.	3.5	22
81	14 MeV calibration of JET neutron detectorsâ€"phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	3.5	22
82	Dynamic Control of Plasma Position and Shape in ITER. Fusion Science and Technology, 1997, 32, 374-389.	0.6	21
83	DTT device: Conceptual design of the superconducting magnet system. Fusion Engineering and Design, 2017, 122, 299-312.	1.9	21
84	Electron acceleration in a JET disruption simulation. Nuclear Fusion, 2018, 58, 106022.	3.5	21
85	Integrated design strategy for EU-DEMO first wall protection from plasma transients. Fusion Engineering and Design, 2022, 177, 113067.	1.9	21
86	Current, Position, and Shape Control in Tokamaks. Fusion Science and Technology, 2011, 59, 486-498.	1.1	20
87	Equilibrium reconstruction at JET using Stokes model for polarimetry. Nuclear Fusion, 2018, 58, 106032.	3.5	20
88	Observation of enhanced ion particle transport in mixed H/D isotope plasmas on JET. Nuclear Fusion, 2018, 58, 076022.	3.5	20
89	Treatment of multiply connected regions in two-component electric vector potentials formulations. IEEE Transactions on Magnetics, 1990, 26, 650-653.	2.1	19
90	The separatrix response of diverted TCV plasmas compared with the predictions of the CREATE-L model. Nuclear Fusion, 1998, 38, 1043-1053.	3.5	19

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91	Control of Elongated Plasma in Presence of ELMs in the JET Tokamak. IEEE Transactions on Nuclear Science, 2011, 58, 1497-1502.	2.0	19
92	First plasma operation of the enhanced JET vertical stabilisation system. Fusion Engineering and Design, 2011, 86, 539-543.	1.9	19
93	Effect of engineering constraints on charged particle wall heat loads in DEMO. Fusion Engineering and Design, 2017, 124, 385-390.	1.9	19
94	Identification of Plasma Equilibria in ITER from Magnetic Measurements Via Functional Parameterization and Neural Networks. Fusion Science and Technology, 1996, 30, 219-236.	0.6	18
95	A fast 3D eddy current integral formulation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 317-331.	0.9	18
96	The DTT device: Rationale for the choice of the parameters. Fusion Engineering and Design, 2017, 122, 288-298.	1.9	18
97	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
98	Periodic solutions of nonlinear eddy current problems in three-dimensional geometries. IEEE Transactions on Magnetics, 1992, 28, 1118-1121.	2.1	17
99	Electromagnetic Disruption Loads on ITER Blanket Modules. IEEE Transactions on Magnetics, 2010, 46, 2935-2938.	2.1	17
100	Overview of modelling activities for Plasma Control Upgrade in JET. Fusion Engineering and Design, 2011, 86, 1030-1033.	1.9	17
101	FAST: A European ITER satellite experiment in the view of DEMO. Fusion Engineering and Design, 2011, 86, 497-503.	1.9	17
102	Analysis of ELM stability with extended MHD models in JET, JT-60U and future JT-60SA tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014032.	2.1	17
103	Effects of nitrogen seeding on core ion thermal transport in JET ILW L-mode plasmas. Nuclear Fusion, 2018, 58, 026028.	3.5	17
104	The Divertor Tokamak Test facility proposal: Physical requirements and reference design. Nuclear Materials and Energy, 2017, 12, 1330-1335.	1.3	16
105	Axisymmetric global AlfvÃ©n eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. Physics of Plasmas, 2017, 24, .	1.9	16
106	Review of recent experimental and modeling advances in the understanding of lower hybrid current drive in ITER-relevant regimes. Nuclear Fusion, 2018, 58, 095003.	3.5	16
107	Impact of plasma thermal transients on the design of the EU DEMO first wall protection. Fusion Engineering and Design, 2020, 158, 111713.	1.9	16
108	Development of real-time diagnostics and feedback algorithms for JET in view of the next step. Plasma Physics and Controlled Fusion, 2005, 47, 395-407.	2.1	15

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109	Exploitation of modularity in the JET tokamak vertical stabilization system. Control Engineering Practice, 2012, 20, 846-856.	5.5	15
110	Electromagnetic Models of Plasma Breakdown in the JET Tokamak. IEEE Transactions on Magnetics, 2014, 50, 937-940.	2.1	15
111	On the numerical solution of the nonlinear three-dimensional eddy current problem. IEEE Transactions on Magnetics, 1991, 27, 3990-3995.	2.1	14
112	Design of the new magnetic sensors for Joint European Torus. Review of Scientific Instruments, 2004, 75, 4311-4313.	1.3	14
113	Installation and commissioning of the JET-EP magnetic diagnostic system. Fusion Engineering and Design, 2009, 84, 1495-1498.	1.9	14
114	Plasma scenarios, equilibrium configurations and control in the design of FAST. Fusion Engineering and Design, 2009, 84, 1562-1569.	1.9	14
115	Observations and modelling of ion cyclotron emission observed in JET plasmas using a sub-harmonic arc detection system during ion cyclotron resonance heating. Nuclear Fusion, 2018, 58, 096020.	3.5	14
116	Next European Torus Operation Cycle. Fusion Science and Technology, 1988, 14, 145-155.	0.6	13
117	Electromagnetic effects induced by plasma disruptions in the NET vacuum vessel. Fusion Engineering and Design, 1991, 15, 201-221.	1.9	13
118	Sensitivity of the diamagnetic sensor measurements of ITER to error sources and their compensation. Fusion Engineering and Design, 2015, 100, 133-141.	1.9	13
119	Light impurity transport in JET ILW L-mode plasmas. Nuclear Fusion, 2018, 58, 036009.	3.5	13
120	Current, position, and shape control of tokamak plasmas: a literature review. , 0, , .		12
121	Vertical stability of ITER plasmas with 3D passive structures and a double-loop control system. Fusion Engineering and Design, 2005, 74, 537-542.	1.9	12
122	Conceptual design of the FAST load assembly. Fusion Engineering and Design, 2010, 85, 174-180.	1.9	12
123	Electromagnetic analysis of breakdown conditions in JET. Fusion Engineering and Design, 2011, 86, 675-679.	1.9	12
124	Perspectives for the high field approach in fusion research and advances within the Ignitor Program. Nuclear Fusion, 2015, 55, 053011.	3.5	12
125	Enhancement of EAST plasma control capabilities. Fusion Engineering and Design, 2016, 112, 660-666.	1.9	12
126	The DTT device: Role and objectives. Fusion Engineering and Design, 2017, 122, 285-287.	1.9	12

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127	Comparison of runaway electron generation parameters in small, medium-sized and large tokamaksâ€"A survey of experiments in COMPASS, TCV, ASDEX-Upgrade and JET. Nuclear Fusion, 2018, 58, 016014.	3.5	12
128	Analysis of vertical instabilities in air core tokamaks in the presence of three-dimensional conducting structures. IEEE Transactions on Magnetics, 1990, 26, 853-856.	2.1	11
129	An error based approach to the solution of full Maxwell equations. IEEE Transactions on Magnetics, 1994, 30, 2968-2971.	2.1	11
130	Analysis of a transient nonlinear 3-D eddy current problem with differential and integral methods. IEEE Transactions on Magnetics, 1996, 32, 776-779.	2.1	11
131	Reconstruction capability of JET magnetic sensors. Fusion Engineering and Design, 2005, 74, 825-830.	1.9	11
132	An analytical demonstration of coupling schemes between magnetohydrodynamic codes and eddy current codes. Physics of Plasmas, 2008, 15, 072516.	1.9	11
133	Status of the EU domestic agency electromagnetic analyses of ITER vacuum vessel and blanket modules. Fusion Engineering and Design, 2013, 88, 1934-1937.	1.9	11
134	Optimization of experimental snowflake configurations on TCV. Nuclear Fusion, 2014, 54, 123008.	3.5	11
135	The DTT device: Poloidal field coil assessment for alternative plasma configurations. Fusion Engineering and Design, 2017, 122, 322-332.	1.9	11
136	Performance analysis of Rogowski coils and the measurement of the total toroidal current in the ITER machine. Nuclear Fusion, 2017, 57, 126049.	3.5	11
137	TAE stability calculations compared to TAE antenna results in JET. Nuclear Fusion, 2018, 58, 082007.	3.5	11
138	Upper and lower bounds for local electromagnetic quantities. International Journal for Numerical Methods in Engineering, 1998, 42, 499-515.	2.8	10
139	Identification of Vertical Instabilities in the JET Tokamak. IEEE Transactions on Magnetics, 2008, 44, 1650-1653.	2.1	10
140	Real-Time Systems in Tokamak Devices. A Case Study: The JET Tokamak. IEEE Transactions on Nuclear Science, 2011, 58, 1420-1426.	2.0	10
141	Tritium distributions on W-coated divertor tiles used in the third JET ITER-like wall campaign. Nuclear Materials and Energy, 2019, 18, 258-261.	1.3	10
142	Sensitivity of the SHiP experiment to dark photons decaying to a pair of charged particles. European Physical Journal C, 2021, 81, 1.	3.9	10
143	Time evolution of tokamak plasmas in the presence of 3D conducting structures. IEEE Transactions on Magnetics, 2000, 36, 1804-1807.	2.1	9
144	ITER vertical stabilization system. Fusion Engineering and Design, 2009, 84, 394-397.	1.9	9

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145	F4E studies for the electromagnetic analysis of ITER components. Fusion Engineering and Design, 2014, 89, 1854-1858.	1.9	9
146	Simulation suite for plasma magnetic control at EAST tokamak. Fusion Engineering and Design, 2018, 133, 19-31.	1.9	9
147	Optimization of DEMO geometry and disruption location prediction. Fusion Engineering and Design, 2019, 146, 967-971.	1.9	9
148	Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET. Nuclear Fusion, 2019, 59, 016004.	3.5	9
149	Phenomenological approaches based on an integral formulation for forward and inverse problems in eddy current testing. International Journal of Applied Electromagnetics and Mechanics, 2001, 12, 115-137.	0.6	8
150	XSC plasma control: Tool development for the session leader. Fusion Engineering and Design, 2005, 74, 521-525.	1.9	8
151	Plasma reconstruction in tokamaks with linearized approaches. International Journal of Applied Electromagnetics and Mechanics, 2007, 26, 191-199.	0.6	8
152	Experimental results with an optimized magnetic field configuration for JET breakdown. Nuclear Fusion, 2012, 52, 123010.	3.5	8
153	A procedure for the design of snowflake magnetic configurations in tokamaks. Plasma Physics and Controlled Fusion, 2014, 56, 035008.	2.1	8
154	Analysis of possible improvement of the plasma performance in JET due to the inward spatial channelling of fast-ion energy. Nuclear Fusion, 2018, 58, 076012.	3.5	8
155	Electromagnetic analyses of single and double null configurations in DEMO device. Fusion Engineering and Design, 2019, 146, 1468-1472.	1.9	8
156	Magnetic configurations and electromagnetic analysis of the Italian DTT device. Fusion Engineering and Design, 2019, 146, 1246-1253.	1.9	8
157	Plasma Scenarios for the DTT Tokamak with Optimized Poloidal Field Coil Current Waveforms. Energies, 2022, 15, 1702.	3.1	8
158	The SHiP experiment at the proposed CERN SPS Beam Dump Facility. European Physical Journal C, 2022, 82, .	3.9	8
159	Optimization of the power supply demand for plasma shape control in a tokamak. IEEE Transactions on Magnetics, 1998, 34, 3580-3583.	2.1	7
160	Linearized models for RFX configurations. Fusion Engineering and Design, 2001, 56-57, 733-738.	1.9	7
161	Electromechanical analysis of end windings in turbo generators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1885-1898.	0.9	7
162	Numerical modeling of 3D halo current path in ITER structures. Fusion Engineering and Design, 2013, 88, 529-532.	1.9	7

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163	Simulation of EAST quasi-snowflake discharge by tokamak simulation code. Fusion Engineering and Design, 2015, 101, 101-110.	1.9	7
164	MHD spectroscopy of JET plasmas with pellets via AlfvÃ©n eigenmodes. Nuclear Fusion, 2018, 58, 082008.	3.5	7
165	Optimization of the PF coil system in axisymmetric fusion devices. Fusion Engineering and Design, 2018, 133, 163-172.	1.9	7
166	Improved neutron activation dosimetry for fusion. Fusion Engineering and Design, 2019, 139, 109-114.	1.9	7
167	PF coil voltage optimization for start-up scenarios in air core tokamaks. IEEE Transactions on Magnetics, 1994, 30, 3423-3426.	2.1	6
168	Neutral point detection in JET. Fusion Engineering and Design, 2003, 66-68, 709-714.	1.9	6
169	Plasma modeling for position and current control in FTU. Fusion Engineering and Design, 2003, 66-68, 681-689.	1.9	6
170	ITER operational space for full plasma current H-mode operation. Fusion Engineering and Design, 2009, 84, 300-304.	1.9	6
171	Jet operations and plasma control: A plasma control system that is safe and flexible in a manageable way.. , 2009, , .		6
172	Real-time systems in tokamak devices. A case study: The JET tokamak. , 2010, , .		6
173	Status of the EU DA electromagnetic analysis contribution to ITER. Fusion Engineering and Design, 2011, 86, 1049-1052.	1.9	6
174	Accuracy Assessment of Numerical Tracing of Three-Dimensional Magnetic Field Lines in Tokamaks with Analytical Invariants. Fusion Science and Technology, 2015, 68, 741-749.	1.1	6
175	A MIMO architecture for integrated control of plasma shape and flux expansion for the EAST tokamak. , 2016, , .		6
176	Integrated plasma control for long pulse advanced plasma discharges on EAST. Fusion Engineering and Design, 2018, 128, 90-94.	1.9	6
177	An improved model for the accurate calculation of parallel heat fluxes at the JET bulk tungsten outer divertor. Nuclear Fusion, 2018, 58, 106034.	3.5	6
178	The magnet of the scattering and neutrino detector for the SHiP experiment at CERN. Journal of Instrumentation, 2020, 15, P01027-P01027.	1.2	6
179	Collisionless losses of fast ions in the Divertor Tokamak Test due to toroidal field ripple. Nuclear Fusion, 0, , .	3.5	6
180	SENSITIVITY OF A TOKAMAK PLASMA SIMULATION TO SOME MODEL UNCERTAINTIES. , 1993, , 732-736.		6

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181	Identification of the Bâ€“H curve from external measurements using complementary formulations. Physica B: Condensed Matter, 2000, 275, 228-232.	2.7	5
182	Electromagnetic Analysis of the 3-D Effects of the Metallic Structures in JET Tokamak. IEEE Transactions on Magnetics, 2004, 40, 589-592.	2.1	5
183	Magnetic configuration control of ITER plasmas. Fusion Engineering and Design, 2007, 82, 1138-1143.	1.9	5
184	Linearized models for a new magnetic control in MAST. Fusion Engineering and Design, 2013, 88, 1091-1096.	1.9	5
185	Integrated Procedure for Halo Current Reconstruction in ITER. IEEE Transactions on Plasma Science, 2013, 41, 257-262.	1.3	5
186	Diagnostics, data acquisition and control of the divertor test tokamak experiment. Fusion Engineering and Design, 2017, 122, 365-374.	1.9	5
187	MIMO shape control at the EAST tokamak: Simulations and experiments. Fusion Engineering and Design, 2019, 146, 1282-1285.	1.9	5
188	Can better modelling improve tokamak control?. , 0, , .		4
189	Coupling plasmas and 3D passive structures in the JET tokamak. International Journal of Applied Electromagnetics and Mechanics, 2010, 33, 533-540.	0.6	4
190	A MARTe based simulator for the JET Vertical Stabilization system. Fusion Engineering and Design, 2011, 86, 1026-1029.	1.9	4
191	Optimization of the magnetic diagnostic for plasma shape identification in tokamak machines. , 2013, , .		4
192	First disruption studies and simulations in view of the development of the DEMO Physics Basis. Fusion Engineering and Design, 2015, 96-97, 348-352.	1.9	4
193	Studies of the plasma vertical instability and its stabilized concepts in JA and EU broader approach, DEMO design activity. Fusion Engineering and Design, 2018, 136, 874-877.	1.9	4
194	Model-based plasma vertical stabilization and position control at EAST. Fusion Engineering and Design, 2018, 129, 152-157.	1.9	4
195	Inter-ELM evolution of the edge current density in JET-ILW type I ELMy H-mode plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 085003.	2.1	4
196	Measurement of the muon flux from 400 GeV/c protons interacting in a thick molybdenum/tungsten target. European Physical Journal C, 2020, 80, 1.	3.9	4
197	Plasma position and shape control for ITER. , 0, , .		3
198	EFFECTS OF THE EDDY CURRENTS FOR SOME DESIGN AND INTERPRETATION PROBLEMS IN A TOKAMAK. , 1993, , 679-683.		3

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