

Ruben Otin

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

732
citations

623734

14
h-index

526287

27
g-index

35
all docs

35
docs citations

35
times ranked

1024
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
2	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
3	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
4	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
5	Impact of ICRF on the scrape-off layer and on plasma wall interactions: From present experiments to fusion reactor. Nuclear Materials and Energy, 2019, 18, 131-140.	1.3	34
6	Regularized Maxwell Equations and Nodal Finite Elements for Electromagnetic Field Computations. Electromagnetics, 2010, 30, 190-204.	0.7	30
7	Finite Element Model for the Computation of the Transfer Impedance of Cable Shields. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 950-958.	2.2	29
8	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. Nuclear Fusion, 2018, 58, 106037.	3.5	29
9	Determination of isotope ratio in the divertor of JET-ILW by high-resolution H α spectroscopy: H α -D experiment and implications for D-T experiment. Nuclear Fusion, 2019, 59, 046011.	3.5	23
10	14 MeV calibration of JET neutron detectors phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	3.5	22
11	Electron acceleration in a JET disruption simulation. Nuclear Fusion, 2018, 58, 106022.	3.5	21
12	Equilibrium reconstruction at JET using Stokes model for polarimetry. Nuclear Fusion, 2018, 58, 106032.	3.5	20
13	ERMES: A nodal-based finite element code for electromagnetic simulations in frequency domain. Computer Physics Communications, 2013, 184, 2588-2595.	7.5	19
14	A numerical model for the search of the optimum frequency in electromagnetic metal forming. International Journal of Solids and Structures, 2013, 50, 1605-1612.	2.7	19
15	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
16	Axisymmetric global Alfvén eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. Physics of Plasmas, 2017, 24, .	1.9	16
17	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
18	NUMERICAL STUDY OF THE THERMAL EFFECTS INDUCED BY A RFID ANTENNA IN VIALS OF BLOOD PLASMA. Progress in Electromagnetics Research Letters, 2011, 22, 129-138.	0.7	13

#	ARTICLE	IF	CITATIONS
19	SPECIFIC ABSORPTION RATE COMPUTATIONS WITH A NODAL-BASED FINITE ELEMENT FORMULATION. Progress in Electromagnetics Research, 2012, 128, 399-418.	4.4	13
20	A finite element tool for the electromagnetic analysis of braided cable shields. Computer Physics Communications, 2015, 191, 209-220.	7.5	9
21	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. Fusion Engineering and Design, 2019, 138, 254-266.	1.9	8
22	COMPUTATIONAL PERFORMANCE OF A WEIGHTED REGULARIZED MAXWELL EQUATION FINITE ELEMENT FORMULATION. Progress in Electromagnetics Research, 2013, 136, 61-77.	4.4	7
23	Improved neutron activation dosimetry for fusion. Fusion Engineering and Design, 2019, 139, 109-114.	1.9	7
24	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
25	A frequency domain approach for computing the Lorentz force in electromagnetic metal forming. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 125-142.	0.6	5
26	Open tools for electromagnetic simulation programs. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 551-564.	0.9	4
27	A Numerical Model for the Search of the Optimum Capacitance in Electromagnetic Metal Forming. , 2011, , .		4
28	Recent improvements to the ICRF antenna coupling code "RAPLICASOL". AIP Conference Proceedings, 2020, , .	0.4	4
29	Testing of a high temperature radiatively cooled Li/Ta heat pipe in Magnum-PSI. Fusion Engineering and Design, 2019, 146, 482-485.	1.9	3
30	Analysis of the outer divertor hot spot activity in the protection video camera recordings at JET. Fusion Engineering and Design, 2019, 139, 115-123.	1.9	3
31	Enabling validated exascale nuclear science. EPJ Web of Conferences, 2020, 245, 09001.	0.3	3
32	Full wave simulation of RF waves in cold plasma with the stabilized open-source finite element tool ERMES. AIP Conference Proceedings, 2020, , .	0.4	2
33	Population modelling of the He II energy levels in tokamak plasmas: I. Collisional excitation model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 045001.	1.5	1
34	Fault analysis and improved design of JET in-vessel Mirnov coils. Fusion Engineering and Design, 2020, 150, 110863.	1.9	1
35	EMANT: Integration of GiD and Kratos, Open and Flexible Computational Tools. , 0, , .		0