Ruben Otin

List of Publications by Year
in descending order

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	Fault analysis and improved design of JET in-vessel Mirnov coils. Fusion Engineering and Design, 2020, 150, 110863.	1.9	1
2	Recent improvements to the ICRF antenna coupling code "RAPLICASOL". AIP Conference Proceedings, 2020, , .	0.4	4
3	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
4	Enabling validated exascale nuclear science. EPJ Web of Conferences, 2020, 245, 09001.	0.3	3
5	Determination of isotope ratio in the divertor of JET-ILW by high-resolution Hα spectroscopy: H–D experiment and implications for D–T experiment. Nuclear Fusion, 2019, 59, 046011.	3.5	23
6	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. Fusion Engineering and Design, 2019, 138, 254-266.	1.9	8
7	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
8	Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
9	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
10	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
11	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
12	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
13	Improved neutron activation dosimetry for fusion. Fusion Engineering and Design, 2019, 139, 109-114.	1.9	7
14	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
15	14 MeV calibration of JET neutron detectors—phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	3.5	22
16	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
17	Equilibrium reconstruction at JET using Stokes model for polarimetry. Nuclear Fusion, 2018, 58, 106032.	3.5	20
18	Electron acceleration in a JET disruption simulation. Nuclear Fusion, 2018, 58, 106022.	3.5	21

#	Article	IF	Citations
19	Modelling of JET hybrid plasmas with emphasis on performance of combined ICRF and NBI heating. Nuclear Fusion, 2018, 58, 106037.	3.5	29
20	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
21	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
22	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
23	Axisymmetric global Alfvén eigenmodes within the ellipticity-induced frequency gap in the Joint European Torus. Physics of Plasmas, 2017, 24, .	1.9	16
24	A finite element tool for the electromagnetic analysis of braided cable shields. Computer Physics Communications, 2015, 191, 209-220.	7.5	9
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	ERMES: A nodal-based finite element code for electromagnetic simulations in frequency domain. Computer Physics Communications, 2013, 184, 2588-2595.	7.5	19
27	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
28	COMPUTATIONAL PERFORMANCE OF A WEIGHTED REGULARIZED MAXWELL EQUATION FINITE ELEMENT FORMULATION. Progress in Electromagnetics Research, 2013, 136, 61-77.	4.4	7
29	SPECIFIC ABSORPTION RATE COMPUTATIONS WITH A NODAL-BASED FINITE ELEMENT FORMULATION. Progress in Electromagnetics Research, 2012, 128, 399-418.	4.4	13
30	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
31	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
32	A Numerical Model for the Search of the Optimum Capacitance in Electromagnetic Metal Forming. , 2011, , .		4
33	Regularized Maxwell Equations and Nodal Finite Elements for Electromagnetic Field Computations. Electromagnetics, 2010, 30, 190-204.	0.7	30
34	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
35	EMANT: Integration of GiD and Kratos, Open and Flexible Computational Tools. , 0, , .		0