Blaise Faugeras

List of Publications by Year
in descending order

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24 papers	914 citations	623734 14 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	1553 citing authors

#	Article	IF	Citations
1	Thermal Conductivity of Graphene in Corbino Membrane Geometry. ACS Nano, 2010, 4, 1889-1892.	14.6	349
2	Modeling environmental effects on the size-structured energy flow through marine ecosystems. Part 1: The model. Progress in Oceanography, 2007, 74, 479-499.	3.2	103
3	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
4	Reconstruction of the equilibrium of the plasma in a Tokamak and identification of the current density profile in real time. Journal of Computational Physics, 2012, 231, 960-980.	3.8	49
5	Modeling environmental effects on the size-structured energy flow through marine ecosystems. Part 2: Simulations. Progress in Oceanography, 2007, 74, 500-514.	3.2	46
6	Modeling fish population movements: From an individual-based representation to an advectionâ€“diffusion equation. Journal of Theoretical Biology, 2007, 247, 837-848.	1.7	46
7	A mechanistic modelling and data assimilation approach to estimate the carbon/chlorophyll and carbon/nitrogen ratios in a coupled hydrodynamical-biological model. Nonlinear Processes in Geophysics, 2004, 11, 515-533.	1.3	42
8	Can biogeochemical fluxes be recovered from nitrate and chlorophyll data? A case study assimilating data in the Northwestern Mediterranean Sea at the JGOFS-DYFAMED station. Journal of Marine Systems, 2003, 40-41, 99-125.	2.1	41
9	Modelling the skipjack tuna dynamics in the Indian Ocean with APECOSM-E: Part 1. Model formulation. Ecological Modelling, 2012, 245, 41-54.	2.5	27
10	An overview of the numerical methods for tokamak plasma equilibrium computation implemented in the NICE code. Fusion Engineering and Design, 2020, 160, 112020.	1.9	24
11	Equilibrium reconstruction at JET using Stokes model for polarimetry. Nuclear Fusion, 2018, 58, 106032.	3.5	20
12	Modelling the skipjack tuna dynamics in the Indian Ocean with APECOSM-E â€“ Part 2: Parameter estimation and sensitivity analysis. Ecological Modelling, 2012, 245, 55-64.	2.5	17
13	An advection-diffusion-reaction size-structured fish population dynamics model combined with a statistical parameter estimation procedure: Application to the Indian Ocean skipjack tuna fishery. Mathematical Biosciences and Engineering, 2005, 2, 719-741.	1.9	15
14	2D interpolation and extrapolation of discrete magnetic measurements with toroidal harmonics for equilibrium reconstruction in a tokamak. Plasma Physics and Controlled Fusion, 2014, 56, 114010.	2.1	14
15	The CEDRES++ equilibrium code and its application to ITER, JT-60SA and Tore Supra. Fusion Engineering and Design, 2011, 86, 1045-1048.	1.9	11
16	An efficient numerical scheme for precise time integration of a diffusion-dissolution/precipitation chemical system. Mathematics of Computation, 2005, 75, 209-223.	2.1	9
17	A multi-region nonlinear ageâ€“size structured fish population model. Nonlinear Analysis: Real World Applications, 2005, 6, 447-460.	1.7	7
18	Optimal control of a coupled partial and ordinary differential equations system for the assimilation of polarimetry Stokes vector measurements in tokamak free-boundary equilibrium reconstruction with application to ITER. Computer Physics Communications, 2017, 217, 43-57.	7.5	7

#	Article	IF	Citations
19	Plasma initiation and preliminary magnetic control in the HL-2M tokamak. Nuclear Fusion, 2021, 61, 086010.	3.5	6
20	On the identification of the electron temperature profile from polarimetry Stokes vector measurements in Tokamak free-boundary equilibrium reconstruction. Plasma Physics and Controlled Fusion, 2019, 61, 115002.	2.1	4
21	Tokamak Plasma Boundary Reconstruction Using Toroidal Harmonics and an Optimal Control Method. Fusion Science and Technology, 2016, 69, 495-504.	1.1	3
22	VARIATIONAL ASYMPTOTIC DERIVATION OF AN ELASTIC MODEL ARISING FROM THE PROBLEM OF 3D AUTOMATIC SEGMENTATION OF CARDIAC IMAGES. Analysis and Applications, 2004, 02, 275-307.	2.2	2
23	On the Well-Posedness of a Coupled One-Dimensional Biological-Physical Model for the Upper Ocean. Mathematical Models and Methods in Applied Sciences, 2003, 13, 1157-1184.	3.3	1
24	REAL-TIME EQUILIBRIUM RECONSTRUCTION IN A TOKAMAK. AIP Conference Proceedings, 2008, , .	0.4	1