

Douglass Post

List of Publications by Year in descending order

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87
papers

4,862
citations

201385

27
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91712

69
g-index

88
all docs

88
docs citations

88
times ranked

1852
citing authors

#	ARTICLE	IF	CITATIONS
1	Case Study of the Nene Code Project. Computing in Science and Engineering, 2010, 12, 28-33.	1.2	0
2	Guest Editor's Introduction: Computational Science and Engineering for the US Department of Defense. Computing in Science and Engineering, 2007, 9, 10-11.	1.2	2
3	The Opportunities, Challenges, and Risks of High Performance Computing in Computational Science and Engineering. Advances in Computers, 2006, , 239-301.	1.2	3
4	Computational Science Demands a New Paradigm. Physics Today, 2005, 58, 35-41.	0.3	117
5	Software Project Management and Quality Engineering Practices for Complex, Coupled Multiphysics, Massively Parallel Computational Simulations: Lessons Learned From ASCI. International Journal of High Performance Computing Applications, 2004, 18, 399-416.	2.4	52
6	Report of the Fusion Simulation Project Steering Committee. Journal of Fusion Energy, 2004, 23, 1-26.	0.5	8
7	Frontiers of simulation. Computing in Science and Engineering, 2004, 6, 12-13.	1.2	1
8	Frontiers of simulation, part II. Computing in Science and Engineering, 2004, 6, 16-17.	1.2	1
9	Guest Editors' Introduction Limits on computations. Computing in Science and Engineering, 2002, 4, 14-15.	1.2	0
10	Title is missing!. Journal of Fusion Energy, 2000, 19, 229-244.	0.5	2
11	Operation and control of ITER plasmas. Nuclear Fusion, 2000, 40, 485-494.	1.6	6
12	Impact of detailed radiation transport on volume recombination. Journal of Nuclear Materials, 1999, 266-269, 1247-1251.	1.3	8
13	Simulation of transient wall pumping, fuelling effects and density control in tokamaks. Journal of Nuclear Materials, 1999, 266-269, 691-696.	1.3	11
14	Chapter 6: Plasma auxiliary heating and current drive. Nuclear Fusion, 1999, 39, 2495-2539.	1.6	163
15	Chapter 9: Opportunities for reactor scale experimental physics. Nuclear Fusion, 1999, 39, 2627-2638.	1.6	11
16	Chapter 1: Overview and summary. Nuclear Fusion, 1999, 39, 2137-2174.	1.6	990
17	Chapter 7: Measurement of plasma parameters. Nuclear Fusion, 1999, 39, 2541-2575.	1.6	51
18	Physics Constraints on Tokamak Edge Operational Space and Extrapolation to ITER. Contributions To Plasma Physics, 1998, 38, 73-81.	0.5	2

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19	Edge parameter operational space and trajectories for ITER. Plasma Physics and Controlled Fusion, 1998, 40, 837-844.	0.9	23
20	Progress in resolving power and particle control issues for the International Thermonuclear Experimental Reactor. Physics of Plasmas, 1997, 4, 2631-2641.	0.7	13
21	ITER physics program and implications for plasma measurements. Review of Scientific Instruments, 1997, 68, 1250-1255.	0.6	8
22	Plasma-wall interactions in ITER. Journal of Nuclear Materials, 1997, 241-243, 1-26.	1.3	98
23	Impurity fueling to terminate Tokamak discharges. Journal of Nuclear Materials, 1997, 241-243, 316-321.	1.3	25
24	The fusion science research plan for the major U.S. Tokamaks: Advisory Report prepared by major facilities review panel, scientific issues subcommittee, and Fusion Energy Advisory Committee. Journal of Fusion Energy, 1996, 15, 207-248.	0.5	1
25	Power Balance in the ITER Plasma and Divertor. Contributions To Plasma Physics, 1996, 36, 240-244.	0.5	9
26	A review of recent developments in atomic processes for divertors and edge plasmas. Journal of Nuclear Materials, 1995, 220-222, 143-157.	1.3	222
27	Analytic criteria for power exhaust in divertors due to impurity radiation. Journal of Nuclear Materials, 1995, 220-222, 1014-1018.	1.3	19
28	Radiation rates for low Z impurities in edge plasmas. Journal of Nuclear Materials, 1995, 220-222, 1028-1032.	1.3	32
29	Studies of plasma detachment using a one dimensional model for divertor operation. Journal of Nuclear Materials, 1995, 220-222, 1019-1023.	1.3	2
30	Detailed radiative transport modeling of a radiative divertor. Journal of Nuclear Materials, 1995, 220-222, 1102-1106.	1.3	17
31	Role of radiation in vapor shielding of first wall during disruption. Journal of Nuclear Materials, 1995, 220-222, 1116-1120.	1.3	3
32	Calculations of energy losses due to atomic processes in tokamaks with applications to the International Thermonuclear Experimental Reactor divertor. Physics of Plasmas, 1995, 2, 2328-2336.	0.7	89
33			

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37	Scalings for tokamak energy confinement. Nuclear Fusion, 1990, 30, 1999-2006.	1.6	562
38	Penetration of energetic neutral beams into fusion plasmas. Nuclear Fusion, 1989, 29, 2125-2140.	1.6	136
39	Baldur: A one-dimensional plasma transport code. Computer Physics Communications, 1988, 49, 275-398.	3.0	115
40	Parametric analyses of divertor plasmas. Journal of Nuclear Materials, 1987, 145-147, 864-867.	1.3	5
41	Zero-dimensional energy balance modelling of the CTX spheromak experiment. Nuclear Fusion, 1985, 25, 1657-1675.	1.6	22
42	Conductivity and transport in neon deuterium discharges in the PLT tokamak. Nuclear Fusion, 1984, 24, 3-12.	1.6	19
43	Depolarization of D ⁺ plasmas by recycling in material walls. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1984, 2, 619-629.	0.9	14
44	Initial Confinement Studies of Ohmically Heated Plasmas in the Tokamak Fusion Test Reactor. Physical Review Letters, 1984, 52, 1492-1495.	2.9	26
45	Enhancement of the Neutral-Beam Stopping Cross Section in Fusion Plasmas Due to Multistep Collision Processes. Physical Review Letters, 1984, 52, 534-537.	2.9	74
46	Attainment of high confinement in neutral beam heated divertor discharges in the PDX tokamak. Journal of Nuclear Materials, 1984, 121, 115-125.	1.3	173
47	An analytic one-dimensional divertor model with neutral sources. Journal of Nuclear Materials, 1984, 121, 171-177.	1.3	35
48	Modelling of the ASDEX scrape-off and divertor. Journal of Nuclear Materials, 1984, 121, 178-183.	1.3	35
49	Calculations of neutral transport in the PDX divertor. Journal of Nuclear Materials, 1984, 121, 189-193.	1.3	9
50	Initial results from the scoop limiter experiment in PDX. Journal of Nuclear Materials, 1984, 121, 294-303.	1.3	33
51	Neutral transport in the ALT-I limiter. Journal of Nuclear Materials, 1984, 121, 316-321.	1.3	5
52	Particle fueling and impurity control in PDX. Journal of Nuclear Materials, 1984, 128-129, 330-339.	1.3	30
53	High energy and particle confinement times in PDX scoop discharges. Journal of Nuclear Materials, 1984, 128-129, 425-429.	1.3	7
54	Monte carlo simulation of the ISX pumped limiter. Journal of Nuclear Materials, 1984, 128-129, 452-457.	1.3	3

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55	Survey of atomic processes in edge plasmas. Journal of Nuclear Materials, 1984, 121, 10-16.	1.3	118
56	Data base requirements for impurity and particle control models. Journal of Nuclear Materials, 1984, 128-129, 78-90.	1.3	8
57	Recent progress in the tokamak edge modeling. Journal of Nuclear Materials, 1984, 128-129, 91-99.	1.3	26
58	INTOR divertor in a realistic 2-D geometry. Journal of Nuclear Materials, 1984, 128-129, 111-113.	1.3	21
59	The PLT rotating pumped limiter. Journal of Nuclear Materials, 1984, 128-129, 430-433.	1.3	15
60	MeV Light Atom Beams for Heating and/or Diagnostics of Tokamak Plasmas. IEEE Transactions on Nuclear Science, 1983, 30, 1179-1182.	1.2	0
61	SEURAT: A Monte-Carlo algorithm for calculating neutral gas transport in non-circular axisymmetric toroidal plasmas. Computer Physics Communications, 1983, 29, 287-299.	3.0	9
62	Light-atom neutral beams for tandem mirror end plugs. Nuclear Fusion, 1983, 23, 3-13.	1.6	3
63	Particle and energy transport in the plasma scrape-off zone and its impact on limiter design. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 907-910.	0.9	17
64	Plasma ion temperature measurements via charge exchange recombination radiation. Applied Physics Letters, 1983, 42, 239-241.	1.5	87
65	Alpha particle simulation and diagnostics using 3He^{++} minority ICRF heating. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 206-210.	0.9	6
66	Pellet injection in TFTR. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 964-968.	0.9	1
67	Charge-exchange wall physical erosion rates for a proposed INTOR/FED limiter. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 911-915.	0.9	4
68	Several Atomic Physics Issues Connected With the Use of Neutral Beams in Fusion Experiments. Physica Scripta, 1983, T3, 135-147.	1.2	12
69	Performance of the INTOR poloidal divertor. Journal of Vacuum Science and Technology, 1982, 20, 1292-1294.	1.9	4
70	Efficiencies of gas neutralizers for multi-MeV beams of light negative ions. Review of Scientific Instruments, 1982, 53, 281-284.	0.6	18
71	Cool, High-Density Regime for Poloidal Divertors. Physical Review Letters, 1982, 48, 326-329.	2.9	110
72	Feasibility of multi-MeV neutral beams of light atoms for heating and current drive in magnetically confined plasmas. Journal of Vacuum Science and Technology, 1982, 20, 1201-1204.	1.9	2

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73	Pumping and erosion rates for the TFTR and INTOR/FED limiter designs. Journal of Nuclear Materials, 1982, 111-112, 298-304.	1.3	7
74	Models for poloidal divertors. Journal of Nuclear Materials, 1982, 111-112, 383-395.	1.3	25
75	A Monte-Carlo model of neutral-particle transport in diverted plasmas. Journal of Computational Physics, 1982, 46, 309-327.	1.9	297
76	Physics of particle exhaust in pump limiters. Journal of Nuclear Materials, 1982, 111-112, 279-286.	1.3	8
77	A computational study of operating regimes for poloidal divertors. Journal of Nuclear Materials, 1982, 111-112, 294-297.	1.3	6
78	One-Dimensional Transport Code Modeling of the Divertor-Limiter Region in Tokamaks. IEEE Transactions on Plasma Science, 1981, 9, 274-282.	0.6	18
79	Atomic Physics Needs for Alpha Particle Diagnostics. Physica Scripta, 1981, 23, 123-124.	1.2	9
80	High current source of He ⁺ ions. Review of Scientific Instruments, 1980, 51, 1066-1070.	0.6	22
81	Charge exchange as a recombination mechanism in high-temperature plasmas. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, 3895-3907.	1.6	79
82	A Monte Carlo algorithm for calculating neutral gas transport in cylindrical plasmas. Journal of Computational Physics, 1978, 28, 43-55.	1.9	145
83	Critical Impurity Concentrations for Power Multiplication in Beam-Heated Toroidal Fusion Reactors. Nuclear Science and Engineering, 1978, 65, 282-289.	0.5	48
84	Critical Impurity Concentrations for Ignition of Catalyzed-Deuterium Fusion Plasmas. Nuclear Science and Engineering, 1978, 66, 144-146.	0.5	2
85	Calculations of impurity radiation and its effects on tokamak experiments. Nuclear Fusion, 1977, 17, 1187-1196.	1.6	180
86	A computer model of radial transport in tokamaks. Nuclear Fusion, 1977, 17, 565-609.	1.6	165
87	100 eV electron impact excitation spectra of 1,3,5-hexatriene. Chemical Physics Letters, 1975, 35, 259-263.	1.2	25