

# Odd Erik Garcia

## List of Publications by Year in descending order

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82  
papers

2,650  
citations

172457  
29  
h-index

197818  
49  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1050  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical turbulence simulations of intermittent fluctuations in the scrape-off layer of magnetized plasmas. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	5
2	Comparison between mirror Langmuir probe and gas-puff imaging measurements of intermittent fluctuations in the Alcator C-Mod scrape-off layer. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	11
3	Intermittent fluctuations due to Lorentzian pulses in turbulent thermal convection. <i>Physics of Fluids</i> , 2020, 32, 085102.	4.0	4
4	Blob interactions in 2D scrape-off layer simulations. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	6
5	Plasma fluctuations in the scrape-off layer and at the divertor target in Alcator C-Mod and their relationship to divertor collisionality and density shoulder formation. <i>Nuclear Materials and Energy</i> , 2019, 19, 295-299.	1.3	16
6	Statistical properties of the plasma fluctuations and turbulent cross-field fluxes in the outboard mid-plane scrape-off layer of Alcator C-Mod. <i>Nuclear Materials and Energy</i> , 2019, 18, 193-200.	1.3	11
7	Intermittent fluctuations in the Alcator C-Mod scrape-off layer for ohmic and high confinement mode plasmas. <i>Physics of Plasmas</i> , 2018, 25, 056103.	1.9	16
8	Intermittent fluctuations due to uncorrelated Lorentzian pulses. <i>Physics of Plasmas</i> , 2018, 25, 014506.	1.9	3
9	Level crossings and excess times due to a superposition of uncorrelated exponential pulses. <i>Physical Review E</i> , 2018, 97, 012110.	2.1	5
10	Intermittent electron density and temperature fluctuations and associated fluxes in the Alcator C-Mod scrape-off layer. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 065002.	2.1	22
11	Probability distribution functions for intermittent scrape-off layer plasma fluctuations. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 034006.	2.1	10
12	Universality of Poisson-driven plasma fluctuations in the Alcator C-Mod scrape-off layer. <i>Physics of Plasmas</i> , 2018, 25, 122309.	1.9	12
13	Skewed Lorentzian pulses and exponential frequency power spectra. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	4
14	SOL width and intermittent fluctuations in KSTAR. <i>Nuclear Materials and Energy</i> , 2017, 12, 36-43.	1.3	22
15	Measurement of inner wall limiter SOL widths in KSTAR tokamak. <i>Nuclear Materials and Energy</i> , 2017, 12, 1270-1276.	1.3	5
16	Auto-correlation function and frequency spectrum due to a super-position of uncorrelated exponential pulses. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	24
17	Unified transport scaling laws for plasma blobs and depletions. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	10
18	Relationship between frequency power spectra and intermittent, large-amplitude bursts in the Alcator C-Mod scrape-off layer. <i>Nuclear Fusion</i> , 2017, 57, 114004.	3.5	18

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19	Power law spectra and intermittent fluctuations due to uncorrelated Lorentzian pulses. Physics of Plasmas, 2017, 24, .	1.9	13
20	Statistical properties of a filtered Poisson process with additive random noise: distributions, correlations and moment estimation. Physica Scripta, 2017, 92, 054002.	2.5	22
21	A solvable blob-model for magnetized plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 104002.	2.1	5
22	Scrape-off layer turbulence in TCV: evidence in support of stochastic modelling. Plasma Physics and Controlled Fusion, 2016, 58, 044006.	2.1	37
23	Fluctuation statistics in the scrape-off layer of Alcator C-Mod. Plasma Physics and Controlled Fusion, 2016, 58, 054001.	2.1	29
24	Level crossings, excess times, and transient plasma-wall interactions in fusion plasmas. Physics of Plasmas, 2016, 23, 040702.	1.9	21
25	Stochastic modelling of intermittent fluctuations in the scrape-off layer: Correlations, distributions, level crossings, and moment estimation. Physics of Plasmas, 2016, 23, .	1.9	40
26	Amplitude and size scaling for interchange motions of plasma filaments. Physics of Plasmas, 2016, 23, 122302.	1.9	14
27	Intermittent fluctuations in the TCV scrape-off layer. Nuclear Fusion, 2015, 55, 062002.	3.5	32
28	Magnetic field-aligned plasma currents in gravitational fields. Annales Geophysicae, 2015, 33, 257-266.	1.6	4
29	Convergence of statistical moments of particle density time series in scrape-off layer plasmas. Physics of Plasmas, 2015, 22, 012502.	1.9	23
30	Experimental investigation of the parallel structure of fluctuations in the scrape-off layer of Alcator C-Mod. Nuclear Fusion, 2014, 54, 043012.	3.5	39
31	20 years of research on the Alcator C-Mod tokamak. Physics of Plasmas, 2014, 21, .	1.9	88
32	Blob sizes and velocities in the Alcator C-Mod scrape-off layer. Journal of Nuclear Materials, 2013, 438, S505-S508.	2.7	29
33	Burst statistics in Alcator C-Mod SOL turbulence. Journal of Nuclear Materials, 2013, 438, S180-S183.	2.7	29
34	Intermittent fluctuations in the Alcator C-Mod scrape-off layer. Physics of Plasmas, 2013, 20, 055901.	1.9	54
35	Overview of experimental results and code validation activities at Alcator C-Mod. Nuclear Fusion, 2013, 53, 104004.	3.5	13
36	Models for electrostatic drift waves with density variations along magnetic field lines. Geophysical Research Letters, 2013, 40, 5565-5569.	4.0	5

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37	Effect of dynamical friction on interchange motion of plasma filaments. Physics of Plasmas, 2012, 19, .	1.9	17
38	Stochastic Modeling of Intermittent Scrape-Off Layer Plasma Fluctuations. Physical Review Letters, 2012, 108, 265001.	7.8	87
39	Velocity scaling for filament motion in scrape-off layer plasmas. Physics of Plasmas, 2011, 18, 102314.	1.9	28
40	The influence of finite Larmor radius effects on the radial interchange motions of plasma filaments. Physics of Plasmas, 2011, 18, .	1.9	52
41	The influence of the edge density fluctuations on electron cyclotron wave beam propagation in tokamaks. Journal of Physics: Conference Series, 2010, 260, 012002.	0.4	9
42	Blob Transport in the Plasma Edge: a Review. Plasma and Fusion Research, 2009, 4, 019-019.	0.7	53
43	Overview of physics research on the TCV tokamak. Nuclear Fusion, 2009, 49, 104005.	3.5	18
44	Progress in Edge Plasma Transport Modeling on JET. Contributions To Plasma Physics, 2008, 48, 190-195.	1.1	3
45	Magnetoconvection in sheared magnetic fields. Physics of Plasmas, 2008, 15, .	1.9	1
46	Dissipative processes in interchange driven scrape-off layer turbulence. Nuclear Fusion, 2007, 47, 417-433.	3.5	83
47	Fluctuations and transport in the TCV scrape-off layer. Nuclear Fusion, 2007, 47, 667-676.	3.5	147
48	Reduced Lorenz models for anomalous transport and profile resilience. Physics of Plasmas, 2007, 14, 022101.	1.9	5
49	On the relationship between ELM filaments and solar flares. Plasma Physics and Controlled Fusion, 2007, 49, R43-R86.	2.1	44
50	Collisionality dependent transport in TCV SOL plasmas. Plasma Physics and Controlled Fusion, 2007, 49, B47-B57.	2.1	76
51	Parallel SOL flow on TCV. Journal of Nuclear Materials, 2007, 363-365, 505-510.	2.7	59
52	Turbulent transport in the TCV SOL. Journal of Nuclear Materials, 2007, 363-365, 575-580.	2.7	64
53	Two-dimensional convection and interchange motions in fluids and magnetized plasmas. Physica Scripta, 2006, T122, 104-124.	2.5	36
54	The application of passive tracers for investigating transport in plasma turbulence. Physica Scripta, 2006, T122, 129-134.	2.5	7

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55	Interchange turbulence in the TCV scrape-off layer. Plasma Physics and Controlled Fusion, 2006, 48, L1-L10.	2.1	135
56	Turbulence simulations of blob formation and radial propagation in toroidally magnetized plasmas. Physica Scripta, 2006, T122, 89-103.	2.5	39
57	Integrated ELM Modelling. Contributions To Plasma Physics, 2006, 46, 726-738.	1.1	10
58	Generation of zonal flows in rotating fluids and magnetized plasmas. Physica Scripta, 2006, T122, 44-51.	2.5	13
59	Radial interchange motions of plasma filaments. Physics of Plasmas, 2006, 13, 082309.	1.9	142
60	Shear flow generation and energetics in electromagnetic turbulence. Physics of Plasmas, 2005, 12, 052515.	1.9	61
61	Mechanism and scaling for convection of isolated structures in nonuniformly magnetized plasmas. Physics of Plasmas, 2005, 12, 090701.	1.9	94
62	Anomalous diffusion, clustering, and pinch of impurities in plasma edge turbulence. Physics of Plasmas, 2005, 12, 062312.	1.9	27
63	Up-gradient transport in a probabilistic transport model. Physics of Plasmas, 2005, 12, 084501.	1.9	6
64	Turbulence and intermittent transport at the boundary of magnetized plasmas. Physics of Plasmas, 2005, 12, 062309.	1.9	100
65	Structures, profile consistency, and transport scaling in electrostatic convection. Physics of Plasmas, 2005, 12, 042307.	1.9	16
66	Shear dispersion and turbulence decorrelation by differential rotation. Physics of Plasmas, 2005, 12, 014503.	1.9	9
67	Computations of Intermittent Transport in Scrape-Off Layer Plasmas. Physical Review Letters, 2004, 92, 165003.	7.8	150
68	Statistical properties of transport in plasma turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 321, 355-365.	2.1	39
69	Collective motions in non-uniformly magnetized plasmas. European Journal of Physics, 2003, 24, 331-339.	0.6	16
70	Publisher's Note: Bursting and large-scale intermittency in turbulent convection with differential rotation [Phys. Rev. E68, 047301 (2003)]. Physical Review E, 2003, 68, .	2.1	0
71	Confinement and dynamical regulation in two-dimensional convective turbulence. Physics of Plasmas, 2003, 10, 4696-4707.	1.9	22
72	Blobs and front propagation in the scrape-off layer of magnetic confinement devices. Physics of Plasmas, 2003, 10, 671-676.	1.9	81

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73	The quasilinear behavior of convective turbulence with sheared flows. Physics of Plasmas, 2003, 10, 1382-1388.	1.9	23
74	Bursting and large-scale intermittency in turbulent convection with differential rotation. Physical Review E, 2003, 68, 047301.	2.1	21
75	Confinement and bursty transport in a flux-driven convection model with sheared flows. Plasma Physics and Controlled Fusion, 2003, 45, 919-932.	2.1	36
76	Understanding the Simple Magnetized Torus. AIP Conference Proceedings, 2003, , .	0.4	0
77	Non-equilibrium quasi-stationary states in a magnetized plasma. Nonlinear Processes in Geophysics, 2003, 10, 139-149.	1.3	14
78	Two-field transport models for magnetized plasmas. Journal of Plasma Physics, 2001, 65, 81-96.	2.1	33
79	Bursty transport in tokamak turbulence: Role of zonal flows and internal transport barriers. Nuclear Fusion, 2001, 41, 995-1001.	3.5	41
80	Anomalous Transport in the Simple Torus. Physica Scripta, 2000, T84, 203.	2.5	1
81	Investigation of forced turbulence and transport in toroidal magnetized plasmas. European Physical Journal D, 1998, 48, 207-212.	0.4	1
82	Anomalous Cross-Field Current and Fluctuating Equilibrium of Magnetized Plasmas. Physical Review Letters, 1997, 79, 1857-1860.	7.8	30