

# Odd Erik Garcia

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3533996/publications.pdf>

Version: 2024-02-01

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	Computations of Intermittent Transport in Scrape-Off Layer Plasmas. Physical Review Letters, 2004, 92, 165003.	7.8	150
2	Fluctuations and transport in the TCV scrape-off layer. Nuclear Fusion, 2007, 47, 667-676.	3.5	147
3	Radial interchange motions of plasma filaments. Physics of Plasmas, 2006, 13, 082309.	1.9	142
4	Interchange turbulence in the TCV scrape-off layer. Plasma Physics and Controlled Fusion, 2006, 48, L1-L10.	2.1	135
5	Turbulence and intermittent transport at the boundary of magnetized plasmas. Physics of Plasmas, 2005, 12, 062309.	1.9	100
6	Mechanism and scaling for convection of isolated structures in nonuniformly magnetized plasmas. Physics of Plasmas, 2005, 12, 090701.	1.9	94
7	20 years of research on the Alcator C-Mod tokamak. Physics of Plasmas, 2014, 21, .	1.9	88
8	Stochastic Modeling of Intermittent Scrape-Off Layer Plasma Fluctuations. Physical Review Letters, 2012, 108, 265001.	7.8	87
9	Dissipative processes in interchange driven scrape-off layer turbulence. Nuclear Fusion, 2007, 47, 417-433.	3.5	83
10	Blobs and front propagation in the scrape-off layer of magnetic confinement devices. Physics of Plasmas, 2003, 10, 671-676.	1.9	81
11	Collisionality dependent transport in TCV SOL plasmas. Plasma Physics and Controlled Fusion, 2007, 49, B47-B57.	2.1	76
12	Turbulent transport in the TCV SOL. Journal of Nuclear Materials, 2007, 363-365, 575-580.	2.7	64
13	Shear flow generation and energetics in electromagnetic turbulence. Physics of Plasmas, 2005, 12, 052515.	1.9	61
14	Parallel SOL flow on TCV. Journal of Nuclear Materials, 2007, 363-365, 505-510.	2.7	59
15	Intermittent fluctuations in the Alcator C-Mod scrape-off layer. Physics of Plasmas, 2013, 20, 055901.	1.9	54
16	Blob Transport in the Plasma Edge: a Review. Plasma and Fusion Research, 2009, 4, 019-019.	0.7	53
17	The influence of finite Larmor radius effects on the radial interchange motions of plasma filaments. Physics of Plasmas, 2011, 18, .	1.9	52
18	On the relationship between ELM filaments and solar flares. Plasma Physics and Controlled Fusion, 2007, 49, R43-R86.	2.1	44

#	ARTICLE	IF	CITATIONS
19	Bursty transport in tokamak turbulence: Role of zonal flows and internal transport barriers. Nuclear Fusion, 2001, 41, 995-1001.	3.5	41
20	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
21	Statistical properties of transport in plasma turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 321, 355-365.	2.1	39
22	Turbulence simulations of blob formation and radial propagation in toroidally magnetized plasmas. Physica Scripta, 2006, T122, 89-103.	2.5	39
23	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
24	Scrape-off layer turbulence in TCV: evidence in support of stochastic modelling. Plasma Physics and Controlled Fusion, 2016, 58, 044006.	2.1	37
25	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
26	Two-dimensional convection and interchange motions in fluids and magnetized plasmas. Physica Scripta, 2006, T122, 104-124.	2.5	36
27	Two-field transport models for magnetized plasmas. Journal of Plasma Physics, 2001, 65, 81-96.	2.1	33
28	Intermittent fluctuations in the TCV scrape-off layer. Nuclear Fusion, 2015, 55, 062002.	3.5	32
29	Anomalous Cross-Field Current and Fluctuating Equilibrium of Magnetized Plasmas. Physical Review Letters, 1997, 79, 1857-1860.	7.8	30
30	Blob sizes and velocities in the Alcator C-Mod scrape-off layer. Journal of Nuclear Materials, 2013, 438, S505-S508.	2.7	29
31	Burst statistics in Alcator C-Mod SOL turbulence. Journal of Nuclear Materials, 2013, 438, S180-S183.	2.7	29
32	Fluctuation statistics in the scrape-off layer of Alcator C-Mod. Plasma Physics and Controlled Fusion, 2016, 58, 054001.	2.1	29
33	Velocity scaling for filament motion in scrape-off layer plasmas. Physics of Plasmas, 2011, 18, 102314.	1.9	28
34	Anomalous diffusion, clustering, and pinch of impurities in plasma edge turbulence. Physics of Plasmas, 2005, 12, 062312.	1.9	27
35	Auto-correlation function and frequency spectrum due to a super-position of uncorrelated exponential pulses. Physics of Plasmas, 2017, 24, .	1.9	24
36	The quasilinear behavior of convective turbulence with sheared flows. Physics of Plasmas, 2003, 10, 1382-1388.	1.9	23

#	ARTICLE	IF	CITATIONS
37	Convergence of statistical moments of particle density time series in scrape-off layer plasmas. <i>Physics of Plasmas</i> , 2015, 22, 012502.	1.9	23
38	Confinement and dynamical regulation in two-dimensional convective turbulence. <i>Physics of Plasmas</i> , 2003, 10, 4696-4707.	1.9	22
39	SOL width and intermittent fluctuations in KSTAR. <i>Nuclear Materials and Energy</i> , 2017, 12, 36-43.	1.3	22
40	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
41	Statistical properties of a filtered Poisson process with additive random noise: distributions, correlations and moment estimation. <i>Physica Scripta</i> , 2017, 92, 054002.	2.5	22
42	Bursting and large-scale intermittency in turbulent convection with differential rotation. <i>Physical Review E</i> , 2003, 68, 047301.	2.1	21
43	Level crossings, excess times, and transient plasma-wall interactions in fusion plasmas. <i>Physics of Plasmas</i> , 2016, 23, 040702.	1.9	21
44	Overview of physics research on the TCV tokamak. <i>Nuclear Fusion</i> , 2009, 49, 104005.	3.5	18
45	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
46	Effect of dynamical friction on interchange motion of plasma filaments. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	17
47	Collective motions in non-uniformly magnetized plasmas. <i>European Journal of Physics</i> , 2003, 24, 331-339.	0.6	16
48	Structures, profile consistency, and transport scaling in electrostatic convection. <i>Physics of Plasmas</i> , 2005, 12, 042307.	1.9	16
49	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
50	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
51	Non-equilibrium quasi-stationary states in a magnetized plasma. <i>Nonlinear Processes in Geophysics</i> , 2003, 10, 139-149.	1.3	14
52	Amplitude and size scaling for interchange motions of plasma filaments. <i>Physics of Plasmas</i> , 2016, 23, 122302.	1.9	14
53	Generation of zonal flows in rotating fluids and magnetized plasmas. <i>Physica Scripta</i> , 2006, T122, 44-51.	2.5	13
54	Overview of experimental results and code validation activities at Alcator C-Mod. <i>Nuclear Fusion</i> , 2013, 53, 104004.	3.5	13

#	ARTICLE	IF	CITATIONS
55	Power law spectra and intermittent fluctuations due to uncorrelated Lorentzian pulses. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	13
56	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
57	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
58	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
59	Integrated ELM Modelling. <i>Contributions To Plasma Physics</i> , 2006, 46, 726-738.	1.1	10
60	Unified transport scaling laws for plasma blobs and depletions. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	10
61	Probability distribution functions for intermittent scrape-off layer plasma fluctuations. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 034006.	2.1	10
62	Shear dispersion and turbulence decorrelation by differential rotation. <i>Physics of Plasmas</i> , 2005, 12, 014503.	1.9	9
63	The influence of the edge density fluctuations on electron cyclotron wave beam propagation in tokamaks. <i>Journal of Physics: Conference Series</i> , 2010, 260, 012002.	0.4	9
64	The application of passive tracers for investigating transport in plasma turbulence. <i>Physica Scripta</i> , 2006, T122, 129-134.	2.5	7
65	Up-gradient transport in a probabilistic transport model. <i>Physics of Plasmas</i> , 2005, 12, 084501.	1.9	6
66	Blob interactions in 2D scrape-off layer simulations. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	6
67	Reduced Lorenz models for anomalous transport and profile resilience. <i>Physics of Plasmas</i> , 2007, 14, 022101.	1.9	5
68	Models for electrostatic drift waves with density variations along magnetic field lines. <i>Geophysical Research Letters</i> , 2013, 40, 5565-5569.	4.0	5
69	A solvable blob-model for magnetized plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 104002.	2.1	5
70	Measurement of inner wall limiter SOL widths in KSTAR tokamak. <i>Nuclear Materials and Energy</i> , 2017, 12, 1270-1276.	1.3	5
71	Level crossings and excess times due to a superposition of uncorrelated exponential pulses. <i>Physical Review E</i> , 2018, 97, 012110.	2.1	5
72	Numerical turbulence simulations of intermittent fluctuations in the scrape-off layer of magnetized plasmas. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	5

#	ARTICLE	IF	CITATIONS
73	Magnetic field-aligned plasma currents in gravitational fields. <i>Annales Geophysicae</i> , 2015, 33, 257-266.	1.6	4
74	Skewed Lorentzian pulses and exponential frequency power spectra. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	4
75	Intermittent fluctuations due to Lorentzian pulses in turbulent thermal convection. <i>Physics of Fluids</i> , 2020, 32, 085102.	4.0	4
76	Progress in Edge Plasma Transport Modeling on JET. <i>Contributions To Plasma Physics</i> , 2008, 48, 190-195.	1.1	3
77	Intermittent fluctuations due to uncorrelated Lorentzian pulses. <i>Physics of Plasmas</i> , 2018, 25, 014506.	1.9	3
78	Investigation of forced turbulence and transport in toroidal magnetized plasmas. <i>European Physical Journal D</i> , 1998, 48, 207-212.	0.4	1
79	Anomalous Transport in the Simple Torus. <i>Physica Scripta</i> , 2000, T84, 203.	2.5	1
80	Magnetoconvection in sheared magnetic fields. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	1
81	Publisher's Note: Bursting and large-scale intermittency in turbulent convection with differential rotation [Phys. Rev. E 68, 047301 (2003)]. <i>Physical Review E</i> , 2003, 68, .	2.1	0
82	Understanding the Simple Magnetized Torus. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0