

# Bishakhdatta Gayen

## List of Publications by Year in descending order

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39  
papers

860  
citations

394421

19  
h-index

501196

28  
g-index

42  
all docs

42  
docs citations

42  
times ranked

781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-low friction self-levitating nanomagnetic fluid bearing for highly efficient wind energy harvesting. Sustainable Energy Technologies and Assessments, 2022, 52, 102024.	2.7	9
2	Regimes and Transitions in the Basal Melting of Antarctic Ice Shelves. Journal of Physical Oceanography, 2022, 52, 2589-2608.	1.7	7
3	Roles of Shear and Convection in Driving Mixing in the Ocean. Geophysical Research Letters, 2021, 48, e2020GL089455.	4.0	7
4	The role of double-diffusive convection in basal melting of Antarctic ice shelves. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
5	Eddy Induced Trapping and Homogenization of Freshwater in the Bay of Bengal. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017180.	2.6	7
6	Ocean Convection. Fluids, 2021, 6, 360.	1.7	6
7	Development of a novel wind to electrical energy converter of passive ferrofluid levitation through its parameter modelling and optimization. Sustainable Energy Technologies and Assessments, 2021, 48, 101641.	2.7	12
8	Peptide Programmed Hydrogels as Safe Sanctuary Microenvironments for Cell Transplantation. Advanced Functional Materials, 2020, 30, 1900390.	14.9	29
9	Ocean Gyres Driven by Surface Buoyancy Forcing. Geophysical Research Letters, 2020, 47, e2020GL088539.	4.0	15
10	The Sensitivity of the Antarctic Ice Sheet to a Changing Climate: Past, Present, and Future. Reviews of Geophysics, 2020, 58, e2019RG000663.	23.0	49
11	The Dynamics of Mixed Layer Deepening during Open-Ocean Convection. Journal of Physical Oceanography, 2020, 50, 1625-1641.	1.7	4
12	Ablation of sloping ice faces into polar seawater. Journal of Fluid Mechanics, 2019, 863, 545-571.	3.4	21
13	The Impact of Turbulence and Convection on Transport in the Southern Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 4208-4221.	2.6	9
14	Transport by deep convection in basin-scale geostrophic circulation: turbulence-resolving simulations. Journal of Fluid Mechanics, 2019, 865, 681-719.	3.4	7
15	Convection Enhances Mixing in the Southern Ocean. Geophysical Research Letters, 2018, 45, 4198-4207.	4.0	15
16	Turbulent horizontal convection under spatially periodic forcing: a regime governed by interior inertia. Journal of Fluid Mechanics, 2017, 831, 491-523.	3.4	7
17	Geostrophic and chimney regimes in rotating horizontal convection with imposed heat flux. Journal of Fluid Mechanics, 2017, 823, 57-99.	3.4	7
18	Simulation of convection at a vertical ice face dissolving into saline water. Journal of Fluid Mechanics, 2016, 798, 284-298.	3.4	34

#	ARTICLE	IF	CITATIONS
19	Mixing and dissipation in a geostrophic buoyancy-driven circulation. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6076-6091.	2.6	16
20	Turbulent Convection Insights from Small-Scale Thermal Forcing with Zero Net Heat Flux at a Horizontal Boundary. <i>Physical Review Letters</i> , 2015, 115, 204301.	7.8	3
21	Melting Driven Convection at the Ice-seawater Interface. <i>Procedia IUTAM</i> , 2015, 15, 78-85.	1.2	3
22	Topographic influence on submesoscale dynamics in the Southern Ocean. <i>Geophysical Research Letters</i> , 2015, 42, 1139-1147.	4.0	61
23	Stability transitions and turbulence in horizontal convection. <i>Journal of Fluid Mechanics</i> , 2014, 751, 698-724.	3.4	53
24	PSI to turbulence during internal wave beam refraction through the upper ocean pycnocline. <i>Geophysical Research Letters</i> , 2014, 41, 8953-8960.	4.0	7
25	Turbulence during the reflection of internal gravity waves at critical and near-critical slopes. <i>Journal of Fluid Mechanics</i> , 2013, 729, 47-68.	3.4	17
26	Horizontal convection dynamics: insights from transient adjustment. <i>Journal of Fluid Mechanics</i> , 2013, 726, 559-595.	3.4	28
27	Completing the Mechanical Energy Pathways in Turbulent Rayleigh-Bénard Convection. <i>Physical Review Letters</i> , 2013, 111, 124301.	7.8	32
28	Tidal conversion and turbulence at a model ridge: direct and large eddy simulations. <i>Journal of Fluid Mechanics</i> , 2013, 715, 181-209.	3.4	26
29	Energetics of horizontal convection. <i>Journal of Fluid Mechanics</i> , 2013, 716, .	3.4	42
30	Available potential energy in Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2013, 729, .	3.4	25
31	Degradation of an internal wave beam by parametric subharmonic instability in an upper ocean pycnocline. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4689-4698.	2.6	27
32	Boundary mixing by density overturns in an internal tidal beam. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	31
33	Direct and large-eddy simulations of internal tide generation at a near-critical slope. <i>Journal of Fluid Mechanics</i> , 2011, 681, 48-79.	3.4	42
34	Effect of Coulomb friction on orientational correlation and velocity distribution functions in a sheared dilute granular gas. <i>Physical Review E</i> , 2011, 84, 021304.	2.1	7
35	Negative turbulent production during flow reversal in a stratified oscillating boundary layer on a sloping bottom. <i>Physics of Fluids</i> , 2011, 23, .	4.0	20
36	Large eddy simulation of a stratified boundary layer under an oscillatory current. <i>Journal of Fluid Mechanics</i> , 2010, 643, 233-266.	3.4	47

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37	Turbulence During the Generation of Internal Tide on a Critical Slope. Physical Review Letters, 2010, 104, 218502.	7.8	45
38	Orientalional Correlation and Velocity Distributions in Uniform Shear Flow of a Dilute Granular Gas. Physical Review Letters, 2008, 100, 068002.	7.8	22
39	Algebraic and exponential instabilities in a sheared micropolar granular fluid. Journal of Fluid Mechanics, 2006, 567, 195.	3.4	39