

Kengo Deguchi

List of Publications by Year in descending order

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34
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citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-driven Hall-magnetohydrodynamic dynamos. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	1
2	Eigenvalue bounds for compressible stratified magnetoshear flows varying in two transverse directions. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	3.4	2
3	Distributed vortex-wave interactions: the relation of self-similarity to the attached eddy hypothesis. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	3.4	3
4	Subcritical magnetohydrodynamic instabilities: Chandrasekhar's theorem revisited. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	3.4	2
5	Streaky dynamo equilibria persisting at infinite Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	3.4	1
6	Fully nonlinear mode competition in magnetised Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2020, 897, .	3.4	4
7	High-speed shear-driven dynamos. Part 2. Numerical analysis. <i>Journal of Fluid Mechanics</i> , 2019, 876, 830-858.	3.4	5
8	Inviscid instability of a unidirectional flow sheared in two transverse directions. <i>Journal of Fluid Mechanics</i> , 2019, 874, 979-994.	3.4	4
9	High-speed shear-driven dynamos. Part 1. Asymptotic analysis. <i>Journal of Fluid Mechanics</i> , 2019, 868, 176-211.	3.4	6
10	High-speed standard magneto-rotational instability. <i>Journal of Fluid Mechanics</i> , 2019, 865, 492-522.	3.4	2
11	Free-stream coherent structures in a planar jet. <i>Journal of Fluid Mechanics</i> , 2018, 837, 916-930.	3.4	4
12	Bifurcation of nonlinear Tollmien-Schlichting waves in a high-speed channel flow. <i>Journal of Fluid Mechanics</i> , 2018, 843, 53-97.	3.4	6
13	Linear instability in Rayleigh-stable Taylor-Couette flow. <i>Physical Review E</i> , 2017, 95, 021102.	2.1	12
14	The relationship between free-stream coherent structures and near-wall streaks at high Reynolds numbers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160078.	3.4	2
15	Scaling of small vortices in stably stratified shear flows. <i>Journal of Fluid Mechanics</i> , 2017, 821, 582-594.	3.4	12
16	The excitation of Görtler vortices by free stream coherent structures. <i>Journal of Fluid Mechanics</i> , 2017, 826, 60-96.	3.4	15
17	On the instability of vortex-wave interaction states. <i>Journal of Fluid Mechanics</i> , 2016, 802, 634-666.	3.4	10
18	The rapid-rotation limit of the neutral curve for Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2016, 808, .	3.4	5

#	ARTICLE	IF	CITATIONS
19	Localized vortex/Tollmienâ€“Schlichting wave interaction states in plane Poiseuille flow. Journal of Fluid Mechanics, 2016, 791, 97-121.	3.4	12
20	Free-stream coherent structures in growing boundary layers: a link to near-wall streaks. Journal of Fluid Mechanics, 2015, 778, 451-484.	3.4	12
21	Self-sustained states at Kolmogorovâ€“microscale. Journal of Fluid Mechanics, 2015, 781, .	3.4	22
22	Asymptotic descriptions of oblique coherent structures in shear flows. Journal of Fluid Mechanics, 2015, 782, 356-367.	3.4	11
23	Suctionâ€“shearâ€“Coriolis instability in a flow between parallel plates. Journal of Fluid Mechanics, 2014, 760, 212-242.	3.4	2
24	Free-stream coherent structures in parallel boundary-layer flows. Journal of Fluid Mechanics, 2014, 752, 602-625.	3.4	33
25	Subcritical Equilibria in Taylor-Couette Flow. Physical Review Letters, 2014, 112, 184502.	7.8	14
26	Canonical exact coherent structures embedded in high Reynolds number flows. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130352.	3.4	15
27	The high-Reynolds-number asymptotic development of nonlinear equilibrium states in plane Couette flow. Journal of Fluid Mechanics, 2014, 750, 99-112.	3.4	34
28	The emergence of localized vortexâ€“wave interaction states in plane Couette flow. Journal of Fluid Mechanics, 2013, 721, 58-85.	3.4	46
29	Fully nonlinear mode competitions of nearly bicritical spiral or Taylor vortices in Taylor-Couette flow. Physical Review E, 2013, 87, 043017.	2.1	12
30	Axisymmetric travelling waves in annular sliding Couette flow at finite and asymptotically large Reynolds number. Journal of Fluid Mechanics, 2013, 720, 582-617.	3.4	7
31	Mirror-symmetric exact coherent states in plane Poiseuille flow. Journal of Fluid Mechanics, 2013, 735, .	3.4	24
32	A swirling spiral wave solution in pipe flow. Journal of Fluid Mechanics, 2013, 737, .	3.4	15
33	Bifurcations and instabilities in sliding Couette flow. Journal of Fluid Mechanics, 2011, 678, 156-178.	3.4	26
34	Traveling hairpin-shaped fluid vortices in plane Couette flow. Physical Review E, 2010, 82, 056325.	2.1	7