

Kengo Deguchi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4171711/publications.pdf>

Version: 2024-02-01

34
papers

388
citations

759233

12
h-index

794594

19
g-index

34
all docs

34
docs citations

34
times ranked

168
citing authors

#	ARTICLE	IF	CITATIONS
1	The emergence of localized vortex-wave interaction states in plane Couette flow. <i>Journal of Fluid Mechanics</i> , 2013, 721, 58-85.	3.4	46
2	The high-Reynolds-number asymptotic development of nonlinear equilibrium states in plane Couette flow. <i>Journal of Fluid Mechanics</i> , 2014, 750, 99-112.	3.4	34
3	Free-stream coherent structures in parallel boundary-layer flows. <i>Journal of Fluid Mechanics</i> , 2014, 752, 602-625.	3.4	33
4	Bifurcations and instabilities in sliding Couette flow. <i>Journal of Fluid Mechanics</i> , 2011, 678, 156-178.	3.4	26
5	Mirror-symmetric exact coherent states in plane Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 2013, 735, .	3.4	24
6	Self-sustained states at Kolmogorov-microscale. <i>Journal of Fluid Mechanics</i> , 2015, 781, .	3.4	22
7	A swirling spiral wave solution in pipe flow. <i>Journal of Fluid Mechanics</i> , 2013, 737, .	3.4	15
8	Canonical exact coherent structures embedded in high Reynolds number flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130352.	3.4	15
9	The excitation of Görtler vortices by free stream coherent structures. <i>Journal of Fluid Mechanics</i> , 2017, 826, 60-96.	3.4	15
10	Subcritical Equilibria in Taylor-Couette Flow. <i>Physical Review Letters</i> , 2014, 112, 184502.	7.8	14
11	Fully nonlinear mode competitions of nearly bicritical spiral or Taylor vortices in Taylor-Couette flow. <i>Physical Review E</i> , 2013, 87, 043017.	2.1	12
12	Free-stream coherent structures in growing boundary layers: a link to near-wall streaks. <i>Journal of Fluid Mechanics</i> , 2015, 778, 451-484.	3.4	12
13	Localized vortex/Tollmien-Schlichting wave interaction states in plane Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 2016, 791, 97-121.	3.4	12
14	Linear instability in Rayleigh-stable Taylor-Couette flow. <i>Physical Review E</i> , 2017, 95, 021102.	2.1	12
15	Scaling of small vortices in stably stratified shear flows. <i>Journal of Fluid Mechanics</i> , 2017, 821, 582-594.	3.4	12
16	Asymptotic descriptions of oblique coherent structures in shear flows. <i>Journal of Fluid Mechanics</i> , 2015, 782, 356-367.	3.4	11
17	On the instability of vortex-wave interaction states. <i>Journal of Fluid Mechanics</i> , 2016, 802, 634-666.	3.4	10
18	Traveling hairpin-shaped fluid vortices in plane Couette flow. <i>Physical Review E</i> , 2010, 82, 056325.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Axisymmetric travelling waves in annular sliding Couette flow at finite and asymptotically large Reynolds number. <i>Journal of Fluid Mechanics</i> , 2013, 720, 582-617.	3.4	7
20	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
21	High-speed shear-driven dynamos. Part 1. Asymptotic analysis. <i>Journal of Fluid Mechanics</i> , 2019, 868, 176-211.	3.4	6
22	The rapid-rotation limit of the neutral curve for Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2016, 808, .	3.4	5
23	High-speed shear-driven dynamos. Part 2. Numerical analysis. <i>Journal of Fluid Mechanics</i> , 2019, 876, 830-858.	3.4	5
24	Free-stream coherent structures in a planar jet. <i>Journal of Fluid Mechanics</i> , 2018, 837, 916-930.	3.4	4
25	Inviscid instability of a unidirectional flow sheared in two transverse directions. <i>Journal of Fluid Mechanics</i> , 2019, 874, 979-994.	3.4	4
26	Fully nonlinear mode competition in magnetised Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2020, 897, .	3.4	4
27	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
28	Suction-shear-Coriolis instability in a flow between parallel plates. <i>Journal of Fluid Mechanics</i> , 2014, 760, 212-242.	3.4	2
29	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
30	High-speed standard magneto-rotational instability. <i>Journal of Fluid Mechanics</i> , 2019, 865, 492-522.	3.4	2
31	Subcritical magnetohydrodynamic instabilities: Chandrasekhar's theorem revisited. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	3.4	2
32	Eigenvalue bounds for compressible stratified magnetoshear flows varying in two transverse directions. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	3.4	2
33	Streaky dynamo equilibria persisting at infinite Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	3.4	1
34	Shear-driven Hall-magnetohydrodynamic dynamos. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	1