

# Hiroshi Kokubu

## List of Publications by Year in descending order

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26  
papers

511  
citations

840776

11  
h-index

677142

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning Dynamics by Reservoir Computing (In Memory of Prof. Pavol Brunovský). Journal of Dynamics and Differential Equations, 2024, 36, 515-540.	1.9	1
2	Explicit transversality conditions and local bifurcation diagrams for Bogdanov-Takens bifurcation on center manifolds. Physica D: Nonlinear Phenomena, 2019, 391, 52-65.	2.8	2
3	The onset of transient turbulence in minimal plane Couette flow. Journal of Fluid Mechanics, 2019, 862, .	3.4	19
4	Global dynamics for steep nonlinearities in two dimensions. Physica D: Nonlinear Phenomena, 2017, 339, 18-38.	2.8	23
5	Formation mechanism of a basin of attraction for passive dynamic walking induced by intrinsic hyperbolicity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160028.	2.1	18
6	A study of rigorous ODE integrators for multi-scale set-oriented computations. Applied Numerical Mathematics, 2016, 107, 34-47.	2.1	12
7	Regarding invited papers on dynamical systems. Japan Journal of Industrial and Applied Mathematics, 2015, 32, 295-295.	0.9	0
8	Common formation mechanism of basin of attraction for bipedal walking models by saddle hyperbolicity and hybrid dynamics. Japan Journal of Industrial and Applied Mathematics, 2015, 32, 315-332.	0.9	16
9	An Attempt to Understand Global Structure of Dynamics in Nonlinear Phenomena. The Brain & Neural Networks, 2015, 22, 68-77.	0.1	1
10	A topological computation approach to the interior crisis bifurcation. Nonlinear Theory and Its Applications IEICE, 2013, 4, 97-103.	0.6	1
11	A Combinatorial Framework for Analysis of Global Dynamics and Bifurcations. Procedia IUTAM, 2012, 5, 195-198.	1.2	0
12	Recent development in rigorous computational methods in dynamical systems. Japan Journal of Industrial and Applied Mathematics, 2009, 26, 393-417.	0.9	106
13	Topological Horseshoes of Traveling Waves for a Fast-Slow Predator-Prey System. Journal of Dynamics and Differential Equations, 2007, 19, 623-654.	1.9	12
14	Existence of a Singularly Degenerate Heteroclinic Cycle in the Lorenz System and Its Dynamical Consequences: Part I. Journal of Dynamics and Differential Equations, 2004, 16, 513-557.	1.9	57
15	Title is missing!. Journal of Dynamics and Differential Equations, 2002, 14, 63-84.	1.9	11
16	Chaotic dynamics in $\mathbb{Z}_2$ -equivariant unfoldings of codimension three singularities of vector fields in $\mathbb{R}^3$ . Ergodic Theory and Dynamical Systems, 2000, 20, 85-107.	0.6	10
17	The Conley Index for Fast-Slow Systems I. One-Dimensional Slow Variable. Journal of Dynamics and Differential Equations, 1999, 11, 427-470.	1.9	12
18	The existence of infinitely many homoclinic doubling bifurcations from some codimension 3 homoclinic orbits. Journal of Dynamics and Differential Equations, 1997, 9, 445-462.	1.9	12

#	ARTICLE	IF	CITATIONS
19	MULTIPLE HOMOCLINIC BIFURCATIONS FROM ORBIT-FLIP I: SUCCESSIVE HOMOCLINIC DOUBLINGS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 833-850.	1.7	23
20	A degenerate singularity generating geometric Lorenz attractors. Ergodic Theory and Dynamical Systems, 1995, 15, 833-856.	0.6	18
21	The cusp horseshoe and its bifurcations in the unfolding of an inclination-flip homoclinic orbit. Ergodic Theory and Dynamical Systems, 1994, 14, 667-693.	0.6	59
22	A construction of three-dimensional vector fields which have a codimension two heteroclinic loop at Glendinning-Sparrow T-point. Zeitschrift Fur Angewandte Mathematik Und Physik, 1993, 44, 510-536.	1.4	6
23	Bifurcations to N-homoclinic orbits and N-periodic orbits in vector fields. Journal of Dynamics and Differential Equations, 1993, 5, 305-357.	1.9	72
24	Constrained Lorenz-like attractors. Japan Journal of Industrial and Applied Mathematics, 1985, 2, 495-500.	0.4	11
25	Normal forms for constrained equations and their applications to strange attractors. , 1985, , .		0
26	Normal forms for parametrized vector fields and its application to bifurcations of some reaction diffusion equations. Japan Journal of Industrial and Applied Mathematics, 1984, 1, 273-297.	0.4	9