

# Hayato Chiba

## List of Publications by Year in descending order

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15  
papers

327  
citations

933447

10  
h-index

996975

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

174  
citing authors

#	ARTICLE	IF	CITATIONS
1	A proof of the Kuramoto conjecture for a bifurcation structure of the infinite-dimensional Kuramoto model. <i>Ergodic Theory and Dynamical Systems</i> , 2015, 35, 762-834.	0.6	55
2	Center manifold reduction for large populations of globally coupled phase oscillators. <i>Chaos</i> , 2011, 21, 043103.	2.5	45
3	Extension and Unification of Singular Perturbation Methods for ODEs Based on the Renormalization Group Method. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009, 8, 1066-1115.	1.6	39
4	Mixed-mode oscillations and chaos in a prey-predator system with dormancy of predators. <i>Chaos</i> , 2009, 19, 043121.	2.5	33
5	$C^1$ Approximation of Vector Fields Based on the Renormalization Group Method. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 895-932.	1.6	32
6	Bifurcations in the Kuramoto model on graphs. <i>Chaos</i> , 2018, 28, 073109.	2.5	26
7	Periodic orbits and chaos in fast-slow systems with Bogdanov-Takens type fold points. <i>Journal of Differential Equations</i> , 2011, 250, 112-160.	2.2	21
8	Approximation of center manifolds on the renormalization group method. <i>Journal of Mathematical Physics</i> , 2008, 49, 102703.	1.1	20
9	Stability of an $n$ -dimensional invariant torus in the Kuramoto model at small coupling. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1068-1081.	2.8	16
10	A spectral theory of linear operators on rigged Hilbert spaces under analyticity conditions. <i>Advances in Mathematics</i> , 2015, 273, 324-379.	1.1	15
11	The first, second and fourth Painlevé equations on weighted projective spaces. <i>Journal of Differential Equations</i> , 2016, 260, 1263-1313.	2.2	14
12	Kovalevskaya exponents and the space of initial conditions of a quasi-homogeneous vector field. <i>Journal of Differential Equations</i> , 2015, 259, 7681-7716.	2.2	7
13	A Center Manifold Reduction of the Kuramoto-Daido Model with a Phase-Lag. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 1235-1259.	1.6	2
14	A Hopf bifurcation in the Kuramoto-Daido model. <i>Journal of Differential Equations</i> , 2021, 280, 546-570.	2.2	1
15	Normal forms of $C^\infty$ vector fields based on the renormalization group. <i>Journal of Mathematical Physics</i> , 2021, 62, 062703.	1.1	1