

Young-Pil Choi

List of Publications by Year in descending order

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64
papers

1,623
citations

279798

23
h-index

302126

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all docs

64
docs citations

64
times ranked

396
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymptotic formation and orbital stability of phase-locked states for the Kuramoto model. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 735-754.	2.8	160
2	Complete synchronization of Kuramoto oscillators with finite inertia. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 32-44.	2.8	99
3	The derivation of swarming models: Mean-field limit and Wasserstein distances. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014, , 1-46.	0.6	95
4	Critical thresholds in 1D Euler equations with non-local forces. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016, 26, 185-206.	3.3	88
5	Sharp conditions to avoid collisions in singular Cucker-Smale interactions. <i>Nonlinear Analysis: Real World Applications</i> , 2017, 37, 317-328.	1.7	74
6	Cucker-Smale model with normalized communication weights and time delay. <i>Kinetic and Related Models</i> , 2017, 10, 1011-1033.	0.9	71
7	Emergent Dynamics of the Cucker-Smale Flocking Model and Its Variants. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2017, , 299-331.	0.6	63
8	An analytical framework for consensus-based global optimization method. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 1037-1066.	3.3	62
9	Emergent behavior of Cucker-Smale flocking particles with heterogeneous time delays. <i>Applied Mathematics Letters</i> , 2018, 86, 49-56.	2.7	56
10	Mean Field Control Hierarchy. <i>Applied Mathematics and Optimization</i> , 2017, 76, 93-135.	1.6	54
11	Time-asymptotic interaction of flocking particles and an incompressible viscous fluid. <i>Nonlinearity</i> , 2012, 25, 1155-1177.	1.4	49
12	A Collisionless Singular Cucker-Smale Model with Decentralized Formation Control. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019, 18, 1954-1981.	1.6	44
13	On the analysis of a coupled kinetic-fluid model with local alignment forces. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2016, 33, 273-307.	1.4	43
14	A Review on Attractive-Repulsive Hydrodynamics for Consensus in Collective Behavior. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2017, , 259-298.	0.6	43
15	Global existence of strong solution for the Cucker-Smale-Navier-Stokes system. <i>Journal of Differential Equations</i> , 2014, 257, 2225-2255.	2.2	36
16	Complete entrainment of Kuramoto oscillators with inertia on networks via gradient-like flow. <i>Journal of Differential Equations</i> , 2014, 257, 2591-2621.	2.2	36
17	Contractivity of Transport Distances for the Kinetic Kuramoto Equation. <i>Journal of Statistical Physics</i> , 2014, 156, 395-415.	1.2	36
18	Asymptotic flocking dynamics of Cucker-Smale particles immersed in compressible fluids. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 4419-4458.	0.9	36

#	ARTICLE	IF	CITATIONS
19	On the pressureless damped Euler–Poisson equations with quadratic confinement: Critical thresholds and large-time behavior. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016, 26, 2311-2340.	3.3	33
20	Global well-posedness and large-time behavior for the inhomogeneous Vlasov–Navier–Stokes equations. <i>Nonlinearity</i> , 2015, 28, 3309-3336.	1.4	28
21	The Cauchy problem for the pressureless Euler/isentropic Navier–Stokes equations. <i>Journal of Differential Equations</i> , 2016, 261, 654-711.	2.2	28
22	Synchronization of nonuniform Kuramoto oscillators for power grids with general connectivity and dampings. <i>Nonlinearity</i> , 2019, 32, 559-583.	1.4	27
23	Large-time behavior for the Vlasov/compressible Navier-Stokes equations. <i>Journal of Mathematical Physics</i> , 2016, 57, .	1.1	25
24	Global classical solutions of the Vlasov–Fokker–Planck equation with local alignment forces. <i>Nonlinearity</i> , 2016, 29, 1887-1916.	1.4	20
25	Mean-Field Limits: From Particle Descriptions to Macroscopic Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2021, 241, 1529-1573.	2.4	20
26	The global Cauchy problem for compressible Euler equations with a nonlocal dissipation. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 185-207.	3.3	19
27	Global existence of weak and strong solutions to Cucker–Smale–Navier–Stokes equations in \mathbb{R}^2 . <i>Nonlinear Analysis: Real World Applications</i> , 2016, 27, 158-182.	1.7	18
28	Global dynamics of the thermomechanical Cucker–Smale ensemble immersed in incompressible viscous fluids. <i>Nonlinearity</i> , 2019, 32, 1597-1640.	1.4	18
29	Finite-time blow-up phenomena of Vlasov/Navier–Stokes equations and related systems. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2017, 108, 991-1021.	1.6	17
30	Propagation of chaos for aggregation equations with no-flux boundary conditions and sharp sensing zones. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 223-258.	3.3	14
31	Propagation of chaos for the Vlasov–Poisson–Fokker–Planck equation with a polynomial cut-off. <i>Communications in Contemporary Mathematics</i> , 2019, 21, 1850039.	1.2	14
32	Convergence to Equilibrium in Wasserstein Distance for Damped Euler Equations with Interaction Forces. <i>Communications in Mathematical Physics</i> , 2019, 365, 329-361.	2.2	13
33	Hydrodynamic Cucker–Smale Model with Normalized Communication Weights and Time Delay. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 2660-2685.	1.9	13
34	On the Coupling of Kinetic Thermomechanical Cucker–Smale Equation and Compressible Viscous Fluid System. <i>Journal of Mathematical Fluid Mechanics</i> , 2020, 22, 1.	1.0	13
35	Global Existence of Strong Solutions to the Cucker–Smale–Stokes System. <i>Journal of Mathematical Fluid Mechanics</i> , 2016, 18, 381-396.	1.0	12
36	Structure preserving schemes for the continuum Kuramoto model: Phase transitions. <i>Journal of Computational Physics</i> , 2019, 376, 365-389.	3.8	12

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37	Consensus of the Hegselmann-Krause opinion formation model with time delay. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 4560-4579.	2.3	12
38	Quantifying the hydrodynamic limit of Vlasov-type equations with alignment and nonlocal forces. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 327-408.	3.3	12
39	Asymptotic analysis for a Vlasov-Fokker-Planck/Navier-Stokes system in a bounded domain. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 2213-2295.	3.3	12
40	Global existence of weak solutions for Navier-Stokes-BGK system. <i>Nonlinearity</i> , 2020, 33, 1925-1955.	1.4	11
41	One dimensional singular Cucker-Smale model: Uniform-in-time mean-field limit and contractivity. <i>Journal of Differential Equations</i> , 2021, 287, 428-459.	2.2	11
42	Exponential synchronization of finite-dimensional Kuramoto model at critical coupling strength. <i>Communications in Mathematical Sciences</i> , 2013, 11, 385-401.	1.0	9
43	Remarks on the nonlinear stability of the Kuramoto model with inertia. <i>Quarterly of Applied Mathematics</i> , 2015, 73, 391-399.	0.7	8
44	Convergence of a linearly transformed particle method for aggregation equations. <i>Numerische Mathematik</i> , 2018, 139, 743-793.	1.9	6
45	Strong solutions to the inhomogeneous Navier-Stokes-BGK system. <i>Nonlinear Analysis: Real World Applications</i> , 2021, 57, 103196.	1.7	6
46	Large friction limit of pressureless Euler equations with nonlocal forces. <i>Journal of Differential Equations</i> , 2021, 299, 196-228.	2.2	6
47	Global existence and asymptotic behavior of measure valued solutions to the kinetic Kuramoto-Daido model with inertia. <i>Networks and Heterogeneous Media</i> , 2013, 8, 943-968.	1.1	6
48	Pressureless Euler alignment system with control. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 1635-1664.	3.3	5
49	Two-species flocking particles immersed in a fluid. <i>Communications in Information and Systems</i> , 2013, 13, 123-149.	0.5	5
50	Collective behavior models with vision geometrical constraints: Truncated noises and propagation of chaos. <i>Journal of Differential Equations</i> , 2019, 266, 6109-6148.	2.2	4
51	Relaxation to Fractional Porous Medium Equation from Euler-Riesz System. <i>Journal of Nonlinear Science</i> , 2021, 31, 1.	2.1	4
52	On the Cauchy Problem for the Pressureless Euler-Navier-Stokes System in the Whole Space. <i>Journal of Mathematical Fluid Mechanics</i> , 2021, 23, 1.	1.0	3
53	Controlled pattern formation of stochastic Cucker-Smale systems with network structures. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 111, 106474.	3.3	3
54	On the dynamics of charged particles in an incompressible flow: From kinetic-fluid to fluid-fluid models. <i>Communications in Contemporary Mathematics</i> , 2023, 25, .	1.2	3

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55	Asymptotic Stability of the Phase-homogeneous Solution to the Kuramoto–Sakaguchi Equation with Inertia. <i>SIAM Journal on Mathematical Analysis</i> , 2021, 53, 3188-3235.	1.9	2
56	On the relaxation dynamics of the Kuramoto oscillators with small inertia. <i>Journal of Mathematical Physics</i> , 2013, 54, 072701.	1.1	1
57	Exponential synchronization of Kuramoto oscillators with time delayed coupling. <i>Communications in Mathematical Sciences</i> , 2021, 19, 1429-1445.	1.0	1
58	On the large-time behavior of Euler–Poisson/Navier–Stokes equations. <i>Applied Mathematics Letters</i> , 2021, 118, 107123.	2.7	1
59	Temporal decays and asymptotic behaviors for a Vlasov equation with a flocking term coupled to incompressible fluid flow. <i>Nonlinear Analysis: Real World Applications</i> , 2022, 63, 103410.	1.7	1
60	A hydrodynamic model for synchronization phenomena. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020, 30, 2175-2227.	3.3	1
61	On regular solutions and singularity formation for Vlasov/Navier-Stokes equations with degenerate viscosities and vacuum. <i>Kinetic and Related Models</i> , 2022, 15, 843.	0.9	1
62	Uniform-in-time bound for kinetic flocking models. <i>Applied Mathematics Letters</i> , 2020, 103, 106164.	2.7	0
63	One dimensional consensus based algorithm for non-convex optimization. <i>Applied Mathematics Letters</i> , 2022, 124, 107658.	2.7	0
64	Global-in-time existence of weak solutions for Vlasov-Manev-Fokker-Planck system. <i>Kinetic and Related Models</i> , 2022, .	0.9	0