Young-Pil Choi

List of Publications by Year in descending order

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Version: 2024-02-01

64 papers	1,623 citations	279798 23 h-index	302126 39 g-index
64 all docs	64 docs citations	64 times ranked	396 citing authors

#	Article	IF	Citations
1	On the dynamics of charged particles in an incompressible flow: From kinetic-fluid to fluidâ€“fluid models. Communications in Contemporary Mathematics, 2023, 25, .	1.2	3
2	Temporal decays and asymptotic behaviors for a Vlasov equation with a flocking term coupled to incompressible fluid flow. Nonlinear Analysis: Real World Applications, 2022, 63, 103410.	1.7	1
3	One dimensional consensus based algorithm for non-convex optimization. Applied Mathematics Letters, 2022, 124, 107658.	2.7	0
4	Controlled pattern formation of stochastic Cuckerâ€“Smale systems with network structures. Communications in Nonlinear Science and Numerical Simulation, 2022, 111, 106474.	3.3	3
5	On regular solutions and singularity formation for Vlasov/Navier-Stokes equations with degenerate viscosities and vacuum. Kinetic and Related Models, 2022, 15, 843.	0.9	1
6	Global-in-time existence of weak solutions for Vlasov-Manev-Fokker-Planck system. Kinetic and Related Models, 2022, .	0.9	0
7	Strong solutions to the inhomogeneous Navierâ€“Stokesâ€“BGK system. Nonlinear Analysis: Real World Applications, 2021, 57, 103196.	1.7	6
8	Consensus of the Hegselmannâ€“Krause opinion formation model with time delay. Mathematical Methods in the Applied Sciences, 2021, 44, 4560-4579.	2.3	12
9	Asymptotic Stability of the Phase-homogeneous Solution to the Kuramoto--Sakaguchi Equation with Inertia. SIAM Journal on Mathematical Analysis, 2021, 53, 3188-3235.	1.9	2
10	Exponential synchronization of Kuramoto oscillators with time delayed coupling. Communications in Mathematical Sciences, 2021, 19, 1429-1445.	1.0	1
11	Quantifying the hydrodynamic limit of Vlasov-type equations with alignment and nonlocal forces. Mathematical Models and Methods in Applied Sciences, 2021, 31, 327-408.	3.3	12
12	One dimensional singular Cuckerâ€“Smale model: Uniform-in-time mean-field limit and contractivity. Journal of Differential Equations, 2021, 287, 428-459.	2.2	11
13	Mean-Field Limits: From Particle Descriptions to Macroscopic Equations. Archive for Rational Mechanics and Analysis, 2021, 241, 1529-1573.	2.4	20
14	On the large-time behavior of Eulerâ€“Poisson/Navierâ€“Stokes equations. Applied Mathematics Letters, 2021, 118, 107123.	2.7	1
15	On the Cauchy Problem for the Pressureless Eulerâ€“Navierâ€“Stokes System in the Whole Space. Journal of Mathematical Fluid Mechanics, 2021, 23, 1.	1.0	3
16	Relaxation to Fractional Porous Medium Equation from Eulerâ€“Riesz System. Journal of Nonlinear Science, 2021, 31, 1.	2.1	4
17	Large friction limit of pressureless Euler equations with nonlocal forces. Journal of Differential Equations, 2021, 299, 196-228.	2.2	6
18	Asymptotic analysis for a Vlasovâ€“Fokkerâ€“Planck/Navierâ€“Stokes system in a bounded domain. Mathematical Models and Methods in Applied Sciences, 2021, 31, 2213-2295.	3.3	12

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19	On the Coupling of Kinetic Thermomechanical Cucker-Smale Equation and Compressible Viscous Fluid System. Journal of Mathematical Fluid Mechanics, 2020, 22, 1.	1.0	13
20	Uniform-in-time bound for kinetic flocking models. Applied Mathematics Letters, 2020, 103, 106164.	2.7	0
21	Global existence of weak solutions for Navierâ€“Stokes-BGK system. Nonlinearity, 2020, 33, 1925-1955.	1.4	11
22	A hydrodynamic model for synchronization phenomena. Mathematical Models and Methods in Applied Sciences, 2020, 30, 2175-2227.	3.3	1
23	Convergence to Equilibrium in Wasserstein Distance for Damped Euler Equations with Interaction Forces. Communications in Mathematical Physics, 2019, 365, 329-361.	2.2	13
24	A Collisionless Singular Cucker--Smale Model with Decentralized Formation Control. SIAM Journal on Applied Dynamical Systems, 2019, 18, 1954-1981.	1.6	44
25	Hydrodynamic Cucker--Smale Model with Normalized Communication Weights and Time Delay. SIAM Journal on Mathematical Analysis, 2019, 51, 2660-2685.	1.9	13
26	Collective behavior models with vision geometrical constraints: Truncated noises and propagation of chaos. Journal of Differential Equations, 2019, 266, 6109-6148.	2.2	4
27	The global Cauchy problem for compressible Euler equations with a nonlocal dissipation. Mathematical Models and Methods in Applied Sciences, 2019, 29, 185-207.	3.3	19
28	Propagation of chaos for the Vlasovâ€“Poissonâ€“Fokkerâ€“Planck equation with a polynomial cut-off. Communications in Contemporary Mathematics, 2019, 21, 1850039.	1.2	14
29	Global dynamics of the thermomechanical Cuckerâ€“Smale ensemble immersed in incompressible viscous fluids. Nonlinearity, 2019, 32, 1597-1640.	1.4	18
30	Synchronization of nonuniform Kuramoto oscillators for power grids with general connectivity and dampings. Nonlinearity, 2019, 32, 559-583.	1.4	27
31	Structure preserving schemes for the continuum Kuramoto model: Phase transitions. Journal of Computational Physics, 2019, 376, 365-389.	3.8	12
32	Propagation of chaos for aggregation equations with no-flux boundary conditions and sharp sensing zones. Mathematical Models and Methods in Applied Sciences, 2018, 28, 223-258.	3.3	14
33	An analytical framework for consensus-based global optimization method. Mathematical Models and Methods in Applied Sciences, 2018, 28, 1037-1066.	3.3	62
34	Pressureless Euler alignment system with control. Mathematical Models and Methods in Applied Sciences, 2018, 28, 1635-1664.	3.3	5
35	Emergent behavior of Cuckerâ€“Smale flocking particles with heterogeneous time delays. Applied Mathematics Letters, 2018, 86, 49-56.	2.7	56
36	Convergence of a linearly transformed particle method for aggregation equations. Numerische Mathematik, 2018, 139, 743-793.	1.9	6

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37	A Review on Attractiveâ€“Repulsive Hydrodynamics for Consensus in Collective Behavior. Modeling and Simulation in Science, Engineering and Technology, 2017, , 259-298.	0.6	43
38	Emergent Dynamics of the Cuckerâ€“Smale Flocking Model and Its Variants. Modeling and Simulation in Science, Engineering and Technology, 2017, , 299-331.	0.6	63
39	Finite-time blow-up phenomena of Vlasov/Navierâ€“Stokes equations and related systems. Journal Des Mathematiques Pures Et Appliquees, 2017, 108, 991-1021.	1.6	17
40	Sharp conditions to avoid collisions in singular Cuckerâ€“Smale interactions. Nonlinear Analysis: Real World Applications, 2017, 37, 317-328.	1.7	74
41	Mean Field Control Hierarchy. Applied Mathematics and Optimization, 2017, 76, 93-135.	1.6	54
42	Cucker-Smale model with normalized communication weights and time delay. Kinetic and Related Models, 2017, 10, 1011-1033.	0.9	71
43	On the analysis of a coupled kinetic-fluid model with local alignment forces. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2016, 33, 273-307.	1.4	43
44	On the pressureless damped Eulerâ€“Poisson equations with quadratic confinement: Critical thresholds and large-time behavior. Mathematical Models and Methods in Applied Sciences, 2016, 26, 2311-2340.	3.3	33
45	Large-time behavior for the Vlasov/compressible Navier-Stokes equations. Journal of Mathematical Physics, 2016, 57, .	1.1	25
46	Global classical solutions of the Vlasovâ€“Fokkerâ€“Planck equation with local alignment forces. Nonlinearity, 2016, 29, 1887-1916.	1.4	20
47	Global Existence of Strong Solutions to the Cuckerâ€“Smaleâ€“Stokes System. Journal of Mathematical Fluid Mechanics, 2016, 18, 381-396.	1.0	12
48	The Cauchy problem for the pressureless Euler/isentropic Navierâ€“Stokes equations. Journal of Differential Equations, 2016, 261, 654-711.	2.2	28
49	Critical thresholds in 1D Euler equations with non-local forces. Mathematical Models and Methods in Applied Sciences, 2016, 26, 185-206.	3.3	88
50	Global existence of weak and strong solutions to Cuckerâ€“Smaleâ€“Navierâ€“Stokes equations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math>. Nonlinear Analysis: Real World Applications, 2016, 27, 158-182.	1.7	18
51	Remarks on the nonlinear stability of the Kuramoto model with inertia. Quarterly of Applied Mathematics, 2015, 73, 391-399.	0.7	8
52	Global well-posedness and large-time behavior for the inhomogeneous Vlasovâ€“Navierâ€“Stokes equations. Nonlinearity, 2015, 28, 3309-3336.	1.4	28
53	Global existence of strong solution for the Cuckerâ€“Smaleâ€“Navierâ€“Stokes system. Journal of Differential Equations, 2014, 257, 2225-2255.	2.2	36
54	Complete entrainment of Kuramoto oscillators with inertia on networks via gradient-like flow. Journal of Differential Equations, 2014, 257, 2591-2621.	2.2	36

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55	Contractivity of Transport Distances for the Kinetic Kuramoto Equation. Journal of Statistical Physics, 2014, 156, 395-415.	1.2	36
56	The derivation of swarming models: Mean-field limit and Wasserstein distances. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 1-46.	0.6	95
57	Asymptotic flocking dynamics of Cucker-Smale particles immersed in compressible fluids. Discrete and Continuous Dynamical Systems, 2014, 34, 4419-4458.	0.9	36
58	On the relaxation dynamics of the Kuramoto oscillators with small inertia. Journal of Mathematical Physics, 2013, 54, 072701.	1.1	1
59	Global existence and asymptotic behavior of measure valued solutions to the kinetic Kuramoto–Daido model with inertia. Networks and Heterogeneous Media, 2013, 8, 943-968.	1.1	6
60	Exponential synchronization of finite-dimensional Kuramoto model at critical coupling strength. Communications in Mathematical Sciences, 2013, 11, 385-401.	1.0	9
61	Two-species flocking particles immersed in a fluid. Communications in Information and Systems, 2013, 13, 123-149.	0.5	5
62	Time-asymptotic interaction of flocking particles and an incompressible viscous fluid. Nonlinearity, 2012, 25, 1155-1177.	1.4	49
63	Asymptotic formation and orbital stability of phase-locked states for the Kuramoto model. Physica D: Nonlinear Phenomena, 2012, 241, 735-754.	2.8	160
64	Complete synchronization of Kuramoto oscillators with finite inertia. Physica D: Nonlinear Phenomena, 2011, 240, 32-44.	2.8	99