Ryohei Seto

List of Publications by Year
in descending order

33 papers	1,673 citations	516681 16 h-index	477281 29 g-index
33 all docs	33 docs citations	33 times ranked	1022 citing authors

#	Article	IF	Citations
1	The Physics of Dense Suspensions. Annual Review of Condensed Matter Physics, 2022, 13, 97-117.	14.5	23
2	Predictions of microstructure and stress in planar extensional flows of a dense viscous suspension. Journal of Fluid Mechanics, 2021, 912, .	3.4	3
3	Shear Jamming and Fragility of Suspensions in a Continuum Model with Elastic Constraints. Physical Review Letters, 2021, 127, 138001.	7.8	6
4	Emergent stripes of active rotors in shear flows. Physical Review Research, 2021, 3, .	3.6	3
5	Shear Thickening and Jamming of Dense Suspensions: The â€œRollâ€•of Friction. Physical Review Letters, 2020, 124, 248005.	7.8	80
6	Force transmission and the order parameter of shear thickening. Soft Matter, 2019, 15, 6650-6659.	2.7	12
7	Shear jamming and fragility in dense suspensions. Granular Matter, 2019, 21, 1.	2.2	48
8	Mixing sauces. ACM Transactions on Graphics, 2019, 38, 1-17.	7.2	18
9	A theoretical framework for steady-state rheometry in generic flow conditions. Journal of Rheology, 2018, 62, 713-723.	2.6	23
10	Normal stress differences in dense suspensions. Journal of Fluid Mechanics, 2018, 857, 200-215.	3.4	26
11	Microstructure and thickening of dense suspensions under extensional and shear flows. Journal of Fluid Mechanics, 2017, 825, .	3.4	34
12	Crystallization kinetics of binary colloidal monolayers. Soft Matter, 2016, 12, 7735-7746.	2.7	12
13	Nonmonotonic flow curves of shear thickening suspensions. Physical Review E, 2015, 91, 052302.	2.1	72
14	Discontinuous shear thickening in Brownian suspensions by dynamic simulation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15326-15330.	7.1	150
15	Simulating the Restructuring of Colloidal Aggregates. , 2015, , 145-173.		0
16	Shear thickening, frictionless and frictional rheologies in non-Brownian suspensions. Journal of Rheology, 2014, 58, 1693-1724.	2.6	454
17	The Essential Role of Frictional Contact in Shear Thickening. Japanese Journal of Multiphase Flow, 2014, 28, 296-303.	0.3	1
18	Compressive consolidation of strongly aggregated particle gels. Journal of Rheology, 2013, 57, 1347-1366.	2.6	27

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19	Comparison of three simulation methods for colloidal aggregates in Stokes flow: Finite elements, lattice Boltzmann and Stokesian dynamics. Computers and Fluids, 2013, 86, 199-209.	2.5	26
20	Measurement of rotation of individual spherical particles in cohesive granulates. Granular Matter, 2013, 15, 391-400.	2.2	21
21	Discontinuous Shear Thickening of Frictional Hard-Sphere Suspensions. Physical Review Letters, 2013, 111, 218301.	7.8	522
22	Viscosity of Rigid and Breakable Aggregate Suspensions Stokesian Dynamics for Rigid Aggregates. , 2012, , 85-90.		1
23	Restructuring of colloidal aggregates in shear flow. European Physical Journal E, 2012, 35, 9805.	1.6	29
24	Hydrodynamic stress on small colloidal aggregates in shear flow using Stokesian dynamics. Physical Review E, 2011, 84, 041405.	2.1	34
25	Overlooked Degree of Freedom in Steepest Descent Method: Steepest Descent Method Corresponding to Divergence-Free WKB Method. Progress of Theoretical Physics, 2009, 122, 1347-1376.	2.0	1
26	Overlooked Branch Cut in Steepest Descent Method: Switching Line and Atomic Domain. Progress of Theoretical Physics, 2009, 122, 1311-1346.	2.0	1
27	How a Colloidal Paste Flowsâ€"Scaling Behaviors in Dispersions of Aggregated Particles under Mechanical Stressâ€". AIP Conference Proceedings, 2008, , .	0.4	0
28	Electromagnetic Gyration: -- Hamiltonian Dynamics of the Stokes Parameters --. Progress of Theoretical Physics, 2007, 117, 195-217.	2.0	13
29	Novel Aspects of Evolution of the Stokes Parameters for an Electromagnetic Wave in Anisotropic Media. Progress of Theoretical Physics, 2006, 116, 285-294.	2.0	6
30	Excess conductivity in high-Tcsuperconducting thin films: Role of smooth doping disorder. Physical Review B, 2006, 73, .	3.2	4
31	NONLINEAR OSCILLATIONS OF THE STOKES PARAMETERS IN BIREFRINGENT MEDIA. , 2006, , .		0
32	Resonant oscillations of the Stokes parameters in non-linear twisted birefringent media. Europhysics Letters, 2005, 71, 751-756.	2.0	10
33	Divergence-free WKB theory. Annals of Physics, 2004, 312, 177-267.	2.8	13