Chiu-On Ng

List of Publications by Year
in descending order

135	2,894	172457	223800
papers	citations	29 h-index	46 g-index

135	135	135	1718
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Propagating characteristics of waves on a thin layer of mud. Journal of Hydrodynamics, 2021, 33, 1078-1088.	3.2	0
2	Starting Poiseuille Flow in a Circular Tube With Two Immiscible Fluids. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	4
3	The Effects of Thermocapillarity on the Thin Film Flow of MHD UCM Fluid over an Unsteady Elastic Surface with Convective Boundary Conditions. International Journal of Thermofluid Science and Technology, 2019, 6, .	0.3	2
4	Rotating electroosmotic flow in a non-uniform microchannel. Meccanica, 2018, 53, 2105-2120.	2.0	8
5	Electroosmotic flow of a two-layer fluid in a slit channel with gradually varying wall shape and zeta potential. International Journal of Heat and Mass Transfer, 2018, 119, 52-64.	4.8	26
6	Interaction between oblique waves and multiple bottom-standing flexible porous barriers near a rigid wall. Meccanica, 2018, 53, 871-885.	2.0	27
7	Effect of a Submerged Porous Plate on the Hydroelastic Response of a Very Large Floating Structure. Journal of Marine Science and Application, 2018, 17, 564-577.	1.7	12
8	End loss for Stokes flow through a slippery circular pore in a barrier of finite thickness. Physics of Fluids, 2018, 30, .	4.0	3
9	Oblique wave scattering by a floating elastic plate over a porous bed in single and two-layer fluid systems. Ocean Engineering, 2018, 159, 280-294.	4.3	33
10	Starting flow in channels with boundary slip. Meccanica, 2017, 52, 45-67.	2.0	5
11	Mixed Convective Flow of a Casson Fluid over a Vertical Stretching Sheet. International Journal of Applied and Computational Mathematics, 2017, 3, 1619-1638.	1.6	14
12	Rotating electroosmotic flow of an Eyring fluid. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 295-315.	3.4	11
13	MHD squeeze flow and heat transfer of a nanofluid between parallel disks with variable fluid properties and transpiration. International Journal of Mechanical and Materials Engineering, 2017, 12, .	2.2	33
14	Effective slip for Stokes flow between two grooved walls with an arbitrary phase shift. Fluid Dynamics Research, 2017, 49, 025516.	1.3	1
15	MHD Flow and Heat Transfer Over a Slender Elastic Permeable Sheet in a Rotating Fluid with Hall Current. International Journal of Applied and Computational Mathematics, 2017, 3, 3175-3200.	1.6	5
16	Pressure loss in channel flow resulting from a sudden change in boundary condition from no-slip to partial-slip. Physics of Fluids, 2017, 29, 103603.	4.0	8
17	Rotating electroosmotic flow of viscoplastic material between two parallel plates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 513, 355-366.	4.7	30
18	Effective slip for flow through a channel bounded by lubricant-impregnated grooved surfaces. Theoretical and Computational Fluid Dynamics, 2017, 31, 189-209.	2.2	12

#	Article	IF	Citations
19	Effective slip for flow in a rotating channel bounded by stick-slip walls. Physical Review E, 2016, 94, 063115.	2.1	1
20	Wave Scattering by a Partial Flexible Porous Barrier in the Presence of a Step-Type Bottom Topography. Coastal Engineering Journal, 2016, 58, 1650008-1-1650008-26.	1.9	19
21	Effects of a depletion layer on flow in a rotating channel. Mechanics Research Communications, 2016, 76, 57-63.	1.8	1
22	STABILITY OF COUPLE STRESS FLUID FLOW THROUGH A HORIZONTAL POROUS LAYER. Journal of Porous Media, 2016, 19, 391-404.	1.9	12
23	Electroosmotic flow of a power-law fluid through an asymmetrical slit microchannel with gradually varying wall shape and wall potential. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 472, 26-37.	4.7	20
24	A thermal non-equilibrium model with Cattaneo effect for convection in a Brinkman porous layer. International Journal of Non-Linear Mechanics, 2015, 71, 39-47.	2.6	22
25	Natural Convection for Slip Flow in a Vertical Polygonal Duct. Journal of Thermophysics and Heat Transfer, 2015, 29, 117-126.	1.6	2
26	Thermal convective instability in an Oldroyd-B nanofluid saturated porous layer. International Journal of Heat and Mass Transfer, 2015, 84, 167-177.	4.8	44
27	Electro-osmotic dispersion in a circular tube with slip-stick striped wall. Fluid Dynamics Research, 2015, 47, 015502.	1.3	4
28	Electro-osmotic flow in a rotating rectangular microchannel. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150200.	2.1	32
29	Electroosmotic flow of a power-law fluid in a slit microchannel with gradually varying channel height and wall potential. European Journal of Mechanics, B/Fluids, 2015, 52, 160-168.	2.5	25
30	Porous ferroconvection with local thermal nonequilibrium temperatures and with Cattaneo effects in the solid. Acta Mechanica, 2015, 226, 3763-3779.	2.1	12
31	Numerical study of interactive motion of dielectrophoretic particles. European Journal of Mechanics, B/Fluids, 2015, 49, 208-216.	2.5	27
32	Natural Convection in a Vertical Microannulus with Superhydrophobic Slip and Temperature Jump. Journal of Thermophysics and Heat Transfer, 2014, 28, 287-294.	1.6	7
33	Temperature Jump Coefficient for Superhydrophobic Surfaces. Journal of Heat Transfer, 2014, 136, .	2.1	25
34	Natural Convection in a Vertical Slit Microchannel With Superhydrophobic Slip and Temperature Jump. Journal of Heat Transfer, 2014, 136, .	2.1	14
35	Electroosmotic flow of a power-law fluid in a non-uniform microchannel. Journal of Non-Newtonian Fluid Mechanics, 2014, 208-209, 118-125.	2.4	51
36	Stability of fluid flow in a Brinkman porous mediumâ€"A numerical study. Journal of Hydrodynamics, 2014, 26, 681-688.	3.2	17

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37	Dispersion in oscillatory electro-osmotic flow through a parallel-plate channel with kinetic sorptive exchange at walls. Journal of Hydrodynamics, 2014, 26, 363-373.	3.2	15
38	Ferromagnetic Convection in a Heterogeneous Porous Medium. Arabian Journal for Science and Engineering, 2014, 39, 7265-7274.	1.1	3
39	Oscillatory electro-osmotic flow through a slit channel with slipping stripes on walls. Fluid Dynamics Research, 2013, 45, 025507.	1.3	4
40	Unsteady convective boundary layer flow of a viscous fluid at a vertical surface with variable fluid properties. Nonlinear Analysis: Real World Applications, 2013, 14, 455-464.	1.7	103
41	Electrohydrodynamic instability of a rotating couple stress dielectric fluid layer. International Journal of Heat and Mass Transfer, 2013, 62, 761-771.	4.8	23
42	The effect of variable viscosity on the flow and heat transfer of a viscous Ag-water and Cu-water nanofluids. Journal of Hydrodynamics, 2013, 25, 1-9.	3.2	61
43	Combined pressure-driven and electroosmotic flow of Casson fluid through a slit microchannel. Journal of Non-Newtonian Fluid Mechanics, 2013, 198, 1-9.	2.4	63
44	An Exact, Fully Nonlinear Solution of the Poisson-Boltzmann Equation with Anti-symmetric Electric Potential Profiles. International Journal of Nonlinear Sciences and Numerical Simulation, 2013, 14, .	1.0	2
45	Electroosmotic flow of a viscoplastic material through a slit channel with walls of arbitrary zeta potential. Physics of Fluids, 2013, 25, .	4.0	18
46	Dispersion in Electro-Osmotic Flow Through a Slit Channel With Axial Step Changes of Zeta Potential. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	1.5	10
47	Dispersion due to Electroosmotic Flow Through a Circular Tube With Axial Step Changes of Zeta Potential and Hydrodynamic Slippage. , 2013, , .		0
48	Stagnation Flow on a Heated Vertical Plate With Surface Slip. Journal of Heat Transfer, 2013, 135, .	2.1	11
49	Electro-osmotic flow through a thin channel with gradually varying wall potential and hydrodynamic slippage. Fluid Dynamics Research, 2012, 44, 055507.	1.3	21
50	Theoretical and experimental study of particle trajectories for nonlinear water waves propagating on a sloping bottom. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 1543-1571.	3.4	14
51	Hydrodynamic interactions among multiple circular cylinders in an inviscid flow. Journal of Fluid Mechanics, 2012, 712, 505-530.	3.4	2
52	Unsteady flow and heat transfer in a thin film of Ostwaldâ€“de Waele liquid over a stretching surface. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4163-4173.	3.3	38
53	Dispersion due to electroosmotic flow in a circular microchannel with slowly varying wall potential and hydrodynamic slippage. Physics of Fluids, 2012, 24, .	4.0	46
54	Electroosmotic Flow Through a Circular Tube With Slip-Stick Striped Wall. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, .	1.5	11

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55	On the time development of dispersion in electroosmotic flow through a rectangular channel. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 631-643.	3.4	17
56	MHD flow and mass transfer of chemically reactive upper convected Maxwell fluid past porous surface. Applied Mathematics and Mechanics (English Edition), 2012, 33, 899-910.	3.6	30
57	A New Lagrangian Asymptotic Solution for Gravityâ€“Capillary Waves in Water of Finite Depth. Journal of Mathematical Fluid Mechanics, 2012, 14, 79-94.	1.0	8
58	Dispersion in electroosmotic flow generated by oscillatory electric field interacting with oscillatory wall potentials. Microfluidics and Nanofluidics, 2012, 12, 237-256.	2.2	26
59	Electrokinetic flows through a parallel-plate channel with slipping stripes on walls. Physics of Fluids, 2011, 23, .	4.0	41
60	Slip flow due to a stretching cylinder. International Journal of Non-Linear Mechanics, 2011, 46, 1191-1194.	2.6	110
61	Heat transfer over a nonlinearly stretching sheet with non-uniform heat source and variable wall temperature. International Journal of Heat and Mass Transfer, 2011, 54, 4960-4965.	4.8	42
62	Effective slip for Stokes flow over a surface patterned with two- or three-dimensional protrusions. Fluid Dynamics Research, 2011, 43, 065504.	1.3	46
63	Ferromagnetic Convection in a Heterogeneous Darcy Porous Medium Using a Local Thermal Non-equilibrium (LTNE) Model. Transport in Porous Media, 2011, 90, 529-544.	2.6	7
64	How does wall slippage affect hydrodynamic dispersion?. Microfluidics and Nanofluidics, 2011, 10, 47-57.	2.2	30
65	Electrohydrodynamic Dispersion of Deformable Aerosols in the Presence of an Electric Field and Chemical Reaction Using Taylor Dispersion Model. Journal of Hydrodynamics, 2011, 23, 247-257.	3.2	2
66	Numerical Analysis of the Performance of Horizontal and Wavy Subsurface Flow Constructed Wetlands. Journal of Hydrodynamics, 2011, 23, 339-347.	3.2	9
67	Mass transport due to oscillatory flow through a prestressed viscoelastic tube with a retentive and absorptive wall. European Journal of Mechanics, B/Fluids, 2011, 30, 195-205.	2.5	1
68	The onset of electrothermoconvection in a rotating Brinkman porous layer. International Journal of Engineering Science, 2011, 49, 646-663.	5.0	22
69	Emulsification of Silicone Oil and Eye Movements. , 2011, 52, 9721.		39
70	Oscillatory Flow Through a Channel With Stick-Slip Walls: Complex Navierâ€™s Slip Length. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	13
71	Lagrangian transport induced by peristaltic pumping in a tube. Fluid Dynamics Research, 2011, 43, 015505.	1.3	1
72	ELECTROHYDRODYNAMIC STABILITY OF COUPLE STRESS FLUID FLOW IN A CHANNEL OCCUPIED BY A POROUS MEDIUM. Special Topics and Reviews in Porous Media, 2011, 2, 11-22.	1.1	14

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73	Development and Validation of a Numerical Model of Subsurface Flow Constructed Wetlands. Energy Procedia, 2011, 11, 3993-3998.	1.8	0
74	Stokes Flow Through a Periodically Grooved Tube. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	11
75	Apparent slip arising from Stokes shear flow over a bidimensional patterned surface. Microfluidics and Nanofluidics, 2010, 8, 361-371.	2.2	54
76	Darcyâ€“Brinkman Flow Through a Corrugated Channel. Transport in Porous Media, 2010, 85, 605-618.	2.6	52
77	Wave Induced Oscillatory and Steady Flows in the Annulus of A Catheterized Viscoelastic Tube. Journal of Hydrodynamics, 2010, 22, 605-617.	3.2	1
78	Lagrangian transport by peristalsis in a closed cavity. Journal of Hydrodynamics, 2010, 22, 138-143.	3.2	1
79	On the effects of liquid-gas interfacial shear on slip flow through a parallel-plate channel with superhydrophobic grooved walls. Physics of Fluids, 2010, 22, .	4.0	43
80	Lagrangian transport induced by peristaltic pumping in a closed channel. Physical Review E, 2009, 80, 056307.	2.1	11
81	Use of Mathcad as a Calculation Tool for Water Waves Over a Stratified Muddy Bed. Coastal Engineering Journal, 2009, 51, 69-79.	1.9	3
82	Stokes shear flow over a grating: Implications for superhydrophobic slip. Physics of Fluids, 2009, 21, .	4.0	89
83	Wave propagation and induced steady streaming in viscous fluid contained in a prestressed viscoelastic tube. Physics of Fluids, 2009, 21, 051901.	4.0	8
84	Nonlinear mechanism of bed load transport. Transactions of Tianjin University, 2009, 15, 126-129.	6.4	0
85	Numerical Simulation of the Dispersion in Oscillating Flows with Reversible and Irreversible Wall Reactions. Journal of Hydrodynamics, 2009, 21, 482-490.	3.2	2
86	Predicting tsunami arrivals: Estimates and policy implications. Marine Policy, 2009, 33, 643-650.	3.2	14
87	Enhancement of Nitrogen and Phosphorus Removal in Pilot-Scale Vertical Subsurface Flow-Constructed Wetlands Using Polypropylene Pellets. Environmental Engineering Science, 2009, 26, 621-631.	1.6	10
88	Pulsatile Casson Fluid Flow Through a Stenosed Bifurcated Artery. International Journal of Fluid Mechanics Research, 2009, 36, 43-63.	0.4	38
89	Wave Propagation Through a Viscous Fluid Contained in a Prestressed Viscoelastic Tube. , 2009, , .		0
90	Double diffusive convection of anomalous density fluids in a porous cavity. Transport in Porous Media, 2008, 71, 133-145.	2.6	17

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91	Interfacial capillaryâ€“gravity waves due to a fundamental singularity in a system of two semi-infinite fluids. Journal of Engineering Mathematics, 2008, 62, 233-245.	1.2	9
92	Effective boundary element method for the interaction of oblique waves with long prismatic structures in water of finite depth. Ocean Engineering, 2008, 35, 494-502.	4.3	13
93	Dispersion of suspended particles in a wave boundary layer over a viscoelastic bed. International Journal of Engineering Science, 2008, 46, 50-65.	5.0	5
94	Convective diffusion in steady flow through a tube with a retentive and absorptive wall. Physics of Fluids, 2008, 20, 073604.	4.0	48
95	Transient buoyancy-driven convection of water around 4â€‰Â°C in a porous cavity with internal heat generation. Physics of Fluids, 2008, 20, .	4.0	6
96	Natural convection in enclosures with partially thermally active side walls containing internal heat sources. Physics of Fluids, 2008, 20, 097104.	4.0	14
97	Mass transport in water waves over a thin layer of soft viscoelastic mud. Journal of Fluid Mechanics, 2007, 573, 105-130.	3.4	43
98	Hydraulics of a submerged weir and applicability in navigational channels: basic flow structures. International Journal for Numerical Methods in Engineering, 2007, 69, 2264-2278.	2.8	8
99	Experimental investigation of the effect of flow turbulence and sediment transport patterns on the adsorption of cadmium ions onto sediment particles. Journal of Environmental Sciences, 2007, 19, 696-703.	6.1	14
100	Interaction of oblique waves with an array of long horizontal circular cylinders. Science in China Series D: Earth Sciences, 2007, 50, 490-509.	0.9	6
101	Dispersion in Porous Media with and without Reaction: A Review. Journal of Porous Media, 2007, 10, 219-248.	1.9	12
102	Dispersion in steady and oscillatory flows through a tube with reversible and irreversible wall reactions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 481-515.	2.1	90
103	Dispersion in open-channel flow subject to the processes of sorptive exchange on the bottom and air-water exchange on the free surface. Journal of Hydrodynamics, 2006, 18, 57-64.	3.2	3
104	Dispersion in open-channel flow subject to the processes of sorptive exchange on the bottom and air-water exchange on the free surface. Journal of Hydrodynamics, 2006, 18, 57-64.	3.2	1
105	A Fourierâ€“Chebyshev collocation method for the mass transport in a layer of power-law fluid mud. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1136-1153.	6.6	7
106	Dispersion in open-channel flow subject to the processes of sorptive exchange on the bottom and airâ€“water exchange on the free surface. Fluid Dynamics Research, 2006, 38, 359-385.	1.3	23
107	On the oscillatory and mean motions due to waves in a thin viscoelastic layer. Wave Motion, 2006, 43, 387-405.	2.0	10
108	Nonlinear dynamical characteristics of bed load motion. Science in China Series D: Earth Sciences, 2006, 49, 365-384.	0.9	9

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109	Dispersion in oscillatory Couette flow with sorptive boundaries. Acta Mechanica, 2005, 178, 65-84.	2.1	21
110	A SPECTRAL METHOD FOR THE MASS TRANSPORT IN A LAYER OF POWER-LAW FLUID UNDER PERIODIC FORCING. , 2005, , .		0
111	Simulation of wave propagation over a submerged bar using the VOF method with a two-equation kâ€“Îµ turbulence modeling. Ocean Engineering, 2004, 31, 87-95.	4.3	48
112	Mass transport in a layer of power-law fluid forced by periodic surface pressure. Wave Motion, 2004, 39, 241-259.	2.0	21
113	A time-varying diffusivity model for shear dispersion in oscillatory channel flow. Fluid Dynamics Research, 2004, 34, 335-355.	1.3	28
114	Mass transport in gravity waves revisited. Journal of Geophysical Research, 2004, 109, .	3.3	17
115	Mass transport and set-ups due to partial standing surface waves in a two-layer viscous system. Journal of Fluid Mechanics, 2004, 520, 297-325.	3.4	23
116	3D numerical modeling of non-isotropic turbulent buoyant helicoidal flow and heat transfer in a curved open channel. International Journal of Heat and Mass Transfer, 2003, 46, 2087-2093.	4.8	12
117	A two-fluid model of turbulent two-phase flow for simulating turbulent stratified flows. Ocean Engineering, 2003, 30, 153-161.	4.3	13
118	On the propagation of a two-dimensional viscous density current under surface waves. Physics of Fluids, 2002, 14, 970-984.	4.0	13
119	A model for flow induced by steady air venting and air sparging. Applied Mathematical Modelling, 2002, 26, 727-750.	4.2	14
120	On the longitudinal dispersion of heavy particles in a horizontal circular pipe. International Journal of Engineering Science, 2002, 40, 239-250.	5.0	3
121	Effects of kinetic sorptive exchange on solute transport in open-channel flow. Journal of Fluid Mechanics, 2001, 446, 321-345.	3.4	47
122	Mass transport in a two-layer wave boundary layer. Ocean Engineering, 2001, 28, 1393-1411.	4.3	3
123	Water waves over a muddy bed: a two-layer Stokes' boundary layer model. Coastal Engineering, 2000, 40, 221-242.	4.0	91
124	A note on the Aris dispersion in a tube with phase exchange and reaction. International Journal of Engineering Science, 2000, 38, 1639-1649.	5.0	13
125	Chemical transport associated with discharge of contaminated fine particles to a steady open-channel flow. Physics of Fluids, 2000, 12, 136-144.	4.0	22
126	Dispersion in Sediment-Laden Stream Flow. Journal of Engineering Mechanics - ASCE, 2000, 126, 779-786.	2.9	11

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127	A model for stripping multicomponent vapor from unsaturated soil with free and trapped residual nonaqueous phase liquid. Water Resources Research, 1999, 35, 385-406.	4.2	13
128	Macroscopic equations for vapor transport in a multi-layered unsaturated zone. Advances in Water Resources, 1999, 22, 611-622.	3.8	6
129	Effects of a semipervious lens on soil vapour extraction. Journal of Fluid Mechanics, 1997, 341, 385-413.	3.4	2
130	Some Applications of the Homogenization Theory. Advances in Applied Mechanics, 1996, 32, 277-348.	2.3	108
131	Aggregate Diffusion Model Applied to Soil Vapor Extraction in Unidirectional and Radial Flows. Water Resources Research, 1996, 32, 1289-1297.	4.2	27
132	Homogenization theory applied to soil vapor extraction in aggregated soils. Physics of Fluids, 1996, 8, 2298-2306.	4.0	14
133	Ground Subsidence of Finite Amplitude Due to Pumping and Surface Loading. Water Resources Research, 1995, 31, 1953-1968.	4.2	4
134	Roll waves on a shallow layer of mud modelled as a power-law fluid. Journal of Fluid Mechanics, 1994, 263, 151-184.	3.4	149
135	Computations of water impact on a two-dimensional flat-bottomed body with a volume-of-fluid method. Ocean Engineering, 1992, 19, 377-393.	4.3	24