

Chiu-On Ng

List of Publications by Year in descending order

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135
papers

2,894
citations

172457

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h-index

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135
all docs

135
docs citations

135
times ranked

1718
citing authors

#	ARTICLE	IF	CITATIONS
1	Roll waves on a shallow layer of mud modelled as a power-law fluid. <i>Journal of Fluid Mechanics</i> , 1994, 263, 151-184.	3.4	149
2	Slip flow due to a stretching cylinder. <i>International Journal of Non-Linear Mechanics</i> , 2011, 46, 1191-1194.	2.6	110
3	Some Applications of the Homogenization Theory. <i>Advances in Applied Mechanics</i> , 1996, 32, 277-348.	2.3	108
4	Unsteady convective boundary layer flow of a viscous fluid at a vertical surface with variable fluid properties. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 455-464.	1.7	103
5	Water waves over a muddy bed: a two-layer Stokes' boundary layer model. <i>Coastal Engineering</i> , 2000, 40, 221-242.	4.0	91
6	Dispersion in steady and oscillatory flows through a tube with reversible and irreversible wall reactions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 481-515.	2.1	90
7	Stokes shear flow over a grating: Implications for superhydrophobic slip. <i>Physics of Fluids</i> , 2009, 21, .	4.0	89
8	Combined pressure-driven and electroosmotic flow of Casson fluid through a slit microchannel. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 198, 1-9.	2.4	63
9	The effect of variable viscosity on the flow and heat transfer of a viscous Ag-water and Cu-water nanofluids. <i>Journal of Hydrodynamics</i> , 2013, 25, 1-9.	3.2	61
10	Apparent slip arising from Stokes shear flow over a bidimensional patterned surface. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 361-371.	2.2	54
11	Darcy-Brinkman Flow Through a Corrugated Channel. <i>Transport in Porous Media</i> , 2010, 85, 605-618.	2.6	52
12	Electroosmotic flow of a power-law fluid in a non-uniform microchannel. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 208-209, 118-125.	2.4	51
13	Simulation of wave propagation over a submerged bar using the VOF method with a two-equation $k-\epsilon$ turbulence modeling. <i>Ocean Engineering</i> , 2004, 31, 87-95.	4.3	48
14	Convective diffusion in steady flow through a tube with a retentive and absorptive wall. <i>Physics of Fluids</i> , 2008, 20, 073604.	4.0	48
15	Effects of kinetic sorptive exchange on solute transport in open-channel flow. <i>Journal of Fluid Mechanics</i> , 2001, 446, 321-345.	3.4	47
16	Effective slip for Stokes flow over a surface patterned with two- or three-dimensional protrusions. <i>Fluid Dynamics Research</i> , 2011, 43, 065504.	1.3	46
17	Dispersion due to electroosmotic flow in a circular microchannel with slowly varying wall potential and hydrodynamic slippage. <i>Physics of Fluids</i> , 2012, 24, .	4.0	46
18	Thermal convective instability in an Oldroyd-B nanofluid saturated porous layer. <i>International Journal of Heat and Mass Transfer</i> , 2015, 84, 167-177.	4.8	44

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19	Mass transport in water waves over a thin layer of soft viscoelastic mud. <i>Journal of Fluid Mechanics</i> , 2007, 573, 105-130.	3.4	43
20	On the effects of liquid-gas interfacial shear on slip flow through a parallel-plate channel with superhydrophobic grooved walls. <i>Physics of Fluids</i> , 2010, 22, .	4.0	43
21	Heat transfer over a nonlinearly stretching sheet with non-uniform heat source and variable wall temperature. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4960-4965.	4.8	42
22	Electrokinetic flows through a parallel-plate channel with slipping stripes on walls. <i>Physics of Fluids</i> , 2011, 23, .	4.0	41
23	Emulsification of Silicone Oil and Eye Movements. , 2011, 52, 9721.		39
24	Unsteady flow and heat transfer in a thin film of Ostwaldâ€œde Waele liquid over a stretching surface. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4163-4173.	3.3	38
25	Pulsatile Casson Fluid Flow Through a Stenosed Bifurcated Artery. <i>International Journal of Fluid Mechanics Research</i> , 2009, 36, 43-63.	0.4	38
26	MHD squeeze flow and heat transfer of a nanofluid between parallel disks with variable fluid properties and transpiration. <i>International Journal of Mechanical and Materials Engineering</i> , 2017, 12, .	2.2	33
27	Oblique wave scattering by a floating elastic plate over a porous bed in single and two-layer fluid systems. <i>Ocean Engineering</i> , 2018, 159, 280-294.	4.3	33
28	Electro-osmotic flow in a rotating rectangular microchannel. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150200.	2.1	32
29	How does wall slippage affect hydrodynamic dispersion?. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 47-57.	2.2	30
30	MHD flow and mass transfer of chemically reactive upper convected Maxwell fluid past porous surface. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2012, 33, 899-910.	3.6	30
31	Rotating electroosmotic flow of viscoplastic material between two parallel plates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 513, 355-366.	4.7	30
32	A time-varying diffusivity model for shear dispersion in oscillatory channel flow. <i>Fluid Dynamics Research</i> , 2004, 34, 335-355.	1.3	28
33	Aggregate Diffusion Model Applied to Soil Vapor Extraction in Unidirectional and Radial Flows. <i>Water Resources Research</i> , 1996, 32, 1289-1297.	4.2	27
34	Numerical study of interactive motion of dielectrophoretic particles. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 208-216.	2.5	27
35	Interaction between oblique waves and multiple bottom-standing flexible porous barriers near a rigid wall. <i>Meccanica</i> , 2018, 53, 871-885.	2.0	27
36	Dispersion in electroosmotic flow generated by oscillatory electric field interacting with oscillatory wall potentials. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 237-256.	2.2	26

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37	Electroosmotic flow of a two-layer fluid in a slit channel with gradually varying wall shape and zeta potential. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 52-64.	4.8	26
38	Temperature Jump Coefficient for Superhydrophobic Surfaces. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	25
39	Electroosmotic flow of a power-law fluid in a slit microchannel with gradually varying channel height and wall potential. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 52, 160-168.	2.5	25
40	Computations of water impact on a two-dimensional flat-bottomed body with a volume-of-fluid method. <i>Ocean Engineering</i> , 1992, 19, 377-393.	4.3	24
41	Mass transport and set-ups due to partial standing surface waves in a two-layer viscous system. <i>Journal of Fluid Mechanics</i> , 2004, 520, 297-325.	3.4	23
42	Dispersion in open-channel flow subject to the processes of sorptive exchange on the bottom and air-water exchange on the free surface. <i>Fluid Dynamics Research</i> , 2006, 38, 359-385.	1.3	23
43	Electrohydrodynamic instability of a rotating couple stress dielectric fluid layer. <i>International Journal of Heat and Mass Transfer</i> , 2013, 62, 761-771.	4.8	23
44	Chemical transport associated with discharge of contaminated fine particles to a steady open-channel flow. <i>Physics of Fluids</i> , 2000, 12, 136-144.	4.0	22
45	The onset of electrothermoconvection in a rotating Brinkman porous layer. <i>International Journal of Engineering Science</i> , 2011, 49, 646-663.	5.0	22
46	A thermal non-equilibrium model with Cattaneo effect for convection in a Brinkman porous layer. <i>International Journal of Non-Linear Mechanics</i> , 2015, 71, 39-47.	2.6	22
47	Mass transport in a layer of power-law fluid forced by periodic surface pressure. <i>Wave Motion</i> , 2004, 39, 241-259.	2.0	21
48	Dispersion in oscillatory Couette flow with sorptive boundaries. <i>Acta Mechanica</i> , 2005, 178, 65-84.	2.1	21
49	Electro-osmotic flow through a thin channel with gradually varying wall potential and hydrodynamic slippage. <i>Fluid Dynamics Research</i> , 2012, 44, 055507.	1.3	21
50	Electroosmotic flow of a power-law fluid through an asymmetrical slit microchannel with gradually varying wall shape and wall potential. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 472, 26-37.	4.7	20
51	Wave Scattering by a Partial Flexible Porous Barrier in the Presence of a Step-Type Bottom Topography. <i>Coastal Engineering Journal</i> , 2016, 58, 1650008-1-1650008-26.	1.9	19
52	Electroosmotic flow of a viscoplastic material through a slit channel with walls of arbitrary zeta potential. <i>Physics of Fluids</i> , 2013, 25, .	4.0	18
53	Mass transport in gravity waves revisited. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	17
54	Double diffusive convection of anomalous density fluids in a porous cavity. <i>Transport in Porous Media</i> , 2008, 71, 133-145.	2.6	17

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55	On the time development of dispersion in electroosmotic flow through a rectangular channel. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 631-643.	3.4	17
56	Stability of fluid flow in a Brinkman porous medium—A numerical study. <i>Journal of Hydrodynamics</i> , 2014, 26, 681-688.	3.2	17
57	Dispersion in oscillatory electro-osmotic flow through a parallel-plate channel with kinetic sorptive exchange at walls. <i>Journal of Hydrodynamics</i> , 2014, 26, 363-373.	3.2	15
58	Homogenization theory applied to soil vapor extraction in aggregated soils. <i>Physics of Fluids</i> , 1996, 8, 2298-2306.	4.0	14
59	A model for flow induced by steady air venting and air sparging. <i>Applied Mathematical Modelling</i> , 2002, 26, 727-750.	4.2	14
60	Experimental investigation of the effect of flow turbulence and sediment transport patterns on the adsorption of cadmium ions onto sediment particles. <i>Journal of Environmental Sciences</i> , 2007, 19, 696-703.	6.1	14
61	Natural convection in enclosures with partially thermally active side walls containing internal heat sources. <i>Physics of Fluids</i> , 2008, 20, 097104.	4.0	14
62	Predicting tsunami arrivals: Estimates and policy implications. <i>Marine Policy</i> , 2009, 33, 643-650.	3.2	14
63	Theoretical and experimental study of particle trajectories for nonlinear water waves propagating on a sloping bottom. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 1543-1571.	3.4	14
64	Natural Convection in a Vertical Slit Microchannel With Superhydrophobic Slip and Temperature Jump. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	14
65	Mixed Convective Flow of a Casson Fluid over a Vertical Stretching Sheet. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 1619-1638.	1.6	14
66	ELECTROHYDRODYNAMIC STABILITY OF COUPLE STRESS FLUID FLOW IN A CHANNEL OCCUPIED BY A POROUS MEDIUM. <i>Special Topics and Reviews in Porous Media</i> , 2011, 2, 11-22.	1.1	14
67	A model for stripping multicomponent vapor from unsaturated soil with free and trapped residual nonaqueous phase liquid. <i>Water Resources Research</i> , 1999, 35, 385-406.	4.2	13
68	A note on the Aris dispersion in a tube with phase exchange and reaction. <i>International Journal of Engineering Science</i> , 2000, 38, 1639-1649.	5.0	13
69	On the propagation of a two-dimensional viscous density current under surface waves. <i>Physics of Fluids</i> , 2002, 14, 970-984.	4.0	13
70	A two-fluid model of turbulent two-phase flow for simulating turbulent stratified flows. <i>Ocean Engineering</i> , 2003, 30, 153-161.	4.3	13
71	Effective boundary element method for the interaction of oblique waves with long prismatic structures in water of finite depth. <i>Ocean Engineering</i> , 2008, 35, 494-502.	4.3	13
72	Oscillatory Flow Through a Channel With Stick-Slip Walls: Complex Navier–Stokes Slip Length. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011, 133, .	1.5	13

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73	3D numerical modeling of non-isotropic turbulent buoyant helicoidal flow and heat transfer in a curved open channel. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 2087-2093.	4.8	12
74	Porous ferroconvection with local thermal nonequilibrium temperatures and with Cattaneo effects in the solid. <i>Acta Mechanica</i> , 2015, 226, 3763-3779.	2.1	12
75	Effective slip for flow through a channel bounded by lubricant-impregnated grooved surfaces. <i>Theoretical and Computational Fluid Dynamics</i> , 2017, 31, 189-209.	2.2	12
76	Effect of a Submerged Porous Plate on the Hydroelastic Response of a Very Large Floating Structure. <i>Journal of Marine Science and Application</i> , 2018, 17, 564-577.	1.7	12
77	Dispersion in Porous Media with and without Reaction: A Review. <i>Journal of Porous Media</i> , 2007, 10, 219-248.	1.9	12
78	STABILITY OF COUPLE STRESS FLUID FLOW THROUGH A HORIZONTAL POROUS LAYER. <i>Journal of Porous Media</i> , 2016, 19, 391-404.	1.9	12
79	Dispersion in Sediment-Laden Stream Flow. <i>Journal of Engineering Mechanics - ASCE</i> , 2000, 126, 779-786.	2.9	11
80	Lagrangian transport induced by peristaltic pumping in a closed channel. <i>Physical Review E</i> , 2009, 80, 056307.	2.1	11
81	Stokes Flow Through a Periodically Grooved Tube. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2010, 132, .	1.5	11
82	Electroosmotic Flow Through a Circular Tube With Slip-Stick Striped Wall. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012, 134, .	1.5	11
83	Stagnation Flow on a Heated Vertical Plate With Surface Slip. <i>Journal of Heat Transfer</i> , 2013, 135, .	2.1	11
84	Rotating electroosmotic flow of an Eyring fluid. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 295-315.	3.4	11
85	On the oscillatory and mean motions due to waves in a thin viscoelastic layer. <i>Wave Motion</i> , 2006, 43, 387-405.	2.0	10
86	Enhancement of Nitrogen and Phosphorus Removal in Pilot-Scale Vertical Subsurface Flow-Constructed Wetlands Using Polypropylene Pellets. <i>Environmental Engineering Science</i> , 2009, 26, 621-631.	1.6	10
87	Dispersion in Electro-Osmotic Flow Through a Slit Channel With Axial Step Changes of Zeta Potential. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, .	1.5	10
88	Nonlinear dynamical characteristics of bed load motion. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 365-384.	0.9	9
89	Interfacial capillary gravity waves due to a fundamental singularity in a system of two semi-infinite fluids. <i>Journal of Engineering Mathematics</i> , 2008, 62, 233-245.	1.2	9
90	Numerical Analysis of the Performance of Horizontal and Wavy Subsurface Flow Constructed Wetlands. <i>Journal of Hydrodynamics</i> , 2011, 23, 339-347.	3.2	9

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91	Hydraulics of a submerged weir and applicability in navigational channels: basic flow structures. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 2264-2278.	2.8	8
92	Wave propagation and induced steady streaming in viscous fluid contained in a prestressed viscoelastic tube. <i>Physics of Fluids</i> , 2009, 21, 051901.	4.0	8
93	A New Lagrangian Asymptotic Solution for Gravityâ€™Capillary Waves in Water of Finite Depth. <i>Journal of Mathematical Fluid Mechanics</i> , 2012, 14, 79-94.	1.0	8
94	Pressure loss in channel flow resulting from a sudden change in boundary condition from no-slip to partial-slip. <i>Physics of Fluids</i> , 2017, 29, 103603.	4.0	8
95	Rotating electroosmotic flow in a non-uniform microchannel. <i>Meccanica</i> , 2018, 53, 2105-2120.	2.0	8
96	A Fourierâ€™Chebyshev collocation method for the mass transport in a layer of power-law fluid mud. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 1136-1153.	6.6	7
97	Ferromagnetic Convection in a Heterogeneous Darcy Porous Medium Using a Local Thermal Non-equilibrium (LTNE) Model. <i>Transport in Porous Media</i> , 2011, 90, 529-544.	2.6	7
98	Natural Convection in a Vertical Microannulus with Superhydrophobic Slip and Temperature Jump. <i>Journal of Thermophysics and Heat Transfer</i> , 2014, 28, 287-294.	1.6	7
99	Macroscopic equations for vapor transport in a multi-layered unsaturated zone. <i>Advances in Water Resources</i> , 1999, 22, 611-622.	3.8	6
100	Interaction of oblique waves with an array of long horizontal circular cylinders. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 490-509.	0.9	6
101	Transient buoyancy-driven convection of water around 4â€™C in a porous cavity with internal heat generation. <i>Physics of Fluids</i> , 2008, 20, .	4.0	6
102	Dispersion of suspended particles in a wave boundary layer over a viscoelastic bed. <i>International Journal of Engineering Science</i> , 2008, 46, 50-65.	5.0	5
103	Starting flow in channels with boundary slip. <i>Meccanica</i> , 2017, 52, 45-67.	2.0	5
104	MHD Flow and Heat Transfer Over a Slender Elastic Permeable Sheet in a Rotating Fluid with Hall Current. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 3175-3200.	1.6	5
105	Ground Subsidence of Finite Amplitude Due to Pumping and Surface Loading. <i>Water Resources Research</i> , 1995, 31, 1953-1968.	4.2	4
106	Oscillatory electro-osmotic flow through a slit channel with slipping stripes on walls. <i>Fluid Dynamics Research</i> , 2013, 45, 025507.	1.3	4
107	Electro-osmotic dispersion in a circular tube with slip-stick striped wall. <i>Fluid Dynamics Research</i> , 2015, 47, 015502.	1.3	4
108	Starting Poiseuille Flow in a Circular Tube With Two Immiscible Fluids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	1.5	4

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109	Mass transport in a two-layer wave boundary layer. <i>Ocean Engineering</i> , 2001, 28, 1393-1411.	4.3	3
110	On the longitudinal dispersion of heavy particles in a horizontal circular pipe. <i>International Journal of Engineering Science</i> , 2002, 40, 239-250.	5.0	3
111	Dispersion in open-channel flow subject to the processes of sorptive exchange on the bottom and air-water exchange on the free surface. <i>Journal of Hydrodynamics</i> , 2006, 18, 57-64.	3.2	3
112	Use of Mathcad as a Calculation Tool for Water Waves Over a Stratified Muddy Bed. <i>Coastal Engineering Journal</i> , 2009, 51, 69-79.	1.9	3
113	Ferromagnetic Convection in a Heterogeneous Porous Medium. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 7265-7274.	1.1	3
114	End loss for Stokes flow through a slippery circular pore in a barrier of finite thickness. <i>Physics of Fluids</i> , 2018, 30, .	4.0	3
115	Effects of a semipervious lens on soil vapour extraction. <i>Journal of Fluid Mechanics</i> , 1997, 341, 385-413.	3.4	2
116	Numerical Simulation of the Dispersion in Oscillating Flows with Reversible and Irreversible Wall Reactions. <i>Journal of Hydrodynamics</i> , 2009, 21, 482-490.	3.2	2
117	Electrohydrodynamic Dispersion of Deformable Aerosols in the Presence of an Electric Field and Chemical Reaction Using Taylor Dispersion Model. <i>Journal of Hydrodynamics</i> , 2011, 23, 247-257.	3.2	2
118	Hydrodynamic interactions among multiple circular cylinders in an inviscid flow. <i>Journal of Fluid Mechanics</i> , 2012, 712, 505-530.	3.4	2
119	An Exact, Fully Nonlinear Solution of the Poisson-Boltzmann Equation with Anti-symmetric Electric Potential Profiles. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2013, 14, .	1.0	2
120	Natural Convection for Slip Flow in a Vertical Polygonal Duct. <i>Journal of Thermophysics and Heat Transfer</i> , 2015, 29, 117-126.	1.6	2
121	The Effects of Thermocapillarity on the Thin Film Flow of MHD UCM Fluid over an Unsteady Elastic Surface with Convective Boundary Conditions. <i>International Journal of Thermofluid Science and Technology</i> , 2019, 6, .	0.3	2
122	Dispersion in open-channel flow subject to the processes of sorptive exchange on the bottom and air-water exchange on the free surface. <i>Journal of Hydrodynamics</i> , 2006, 18, 57-64.	3.2	1
123	Wave Induced Oscillatory and Steady Flows in the Annulus of A Catheterized Viscoelastic Tube. <i>Journal of Hydrodynamics</i> , 2010, 22, 605-617.	3.2	1
124	Lagrangian transport by peristalsis in a closed cavity. <i>Journal of Hydrodynamics</i> , 2010, 22, 138-143.	3.2	1
125	Mass transport due to oscillatory flow through a prestressed viscoelastic tube with a retentive and absorptive wall. <i>European Journal of Mechanics, B/Fluids</i> , 2011, 30, 195-205.	2.5	1
126	Lagrangian transport induced by peristaltic pumping in a tube. <i>Fluid Dynamics Research</i> , 2011, 43, 015505.	1.3	1

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127	Effective slip for flow in a rotating channel bounded by stick-slip walls. Physical Review E, 2016, 94, 063115.	2.1	1
128	Effects of a depletion layer on flow in a rotating channel. Mechanics Research Communications, 2016, 76, 57-63.	1.8	1
129	Effective slip for Stokes flow between two grooved walls with an arbitrary phase shift. Fluid Dynamics Research, 2017, 49, 025516.	1.3	1
130	Nonlinear mechanism of bed load transport. Transactions of Tianjin University, 2009, 15, 126-129.	6.4	0
131	Dispersion due to Electroosmotic Flow Through a Circular Tube With Axial Step Changes of Zeta Potential and Hydrodynamic Slippage. , 2013, , .		0
132	A SPECTRAL METHOD FOR THE MASS TRANSPORT IN A LAYER OF POWER-LAW FLUID UNDER PERIODIC FORCING. , 2005, , .		0
133	Wave Propagation Through a Viscous Fluid Contained in a Prestressed Viscoelastic Tube. , 2009, , .		0
134	Propagating characteristics of waves on a thin layer of mud. Journal of Hydrodynamics, 2021, 33, 1078-1088.	3.2	0
135	Development and Validation of a Numerical Model of Subsurface Flow Constructed Wetlands. Energy Procedia, 2011, 11, 3993-3998.	1.8	0