

Chiang Chung Mei

List of Publications by Year in descending order

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54
papers

1,414
citations

331259

21
h-index

329751

37
g-index

54
all docs

54
docs citations

54
times ranked

859
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.	1.4	149
2	Wave power extraction from an oscillating water column at the tip of a breakwater. <i>Journal of Fluid Mechanics</i> , 2009, 626, 395-414.	1.4	139
3	Long waves through emergent coastal vegetation. <i>Journal of Fluid Mechanics</i> , 2011, 687, 461-491.	1.4	76
4	Roll waves on a layer of a muddy fluid flowing down a gentle slope—A Bingham model. <i>Physics of Fluids</i> , 1994, 6, 2577-2590.	1.6	74
5	Stationary waves on an inclined sheet of viscous fluid at high Reynolds and moderate Weber numbers. <i>Journal of Fluid Mechanics</i> , 1996, 307, 191-229.	1.4	64
6	Slow flow of a Bingham fluid in a shallow channel of finite width. <i>Journal of Fluid Mechanics</i> , 2001, 431, 135-159.	1.4	61
7	Wave-power extraction by a compact array of buoys. <i>Journal of Fluid Mechanics</i> , 2009, 635, 389-413.	1.4	58
8	Do longshore bars shelter the shore?. <i>Journal of Fluid Mechanics</i> , 2000, 404, 251-268.	1.4	50
9	Effects of surface waves on a turbulent current over a smooth or rough seabed. <i>Journal of Fluid Mechanics</i> , 2003, 497, 253-287.	1.4	48
10	Formation of sand bars under surface waves. <i>Journal of Fluid Mechanics</i> , 2000, 416, 315-348.	1.4	46
11	Weakly nonlinear surface waves over a random seabed. <i>Journal of Fluid Mechanics</i> , 2003, 475, 247-268.	1.4	38
12	Double reflection of capillary/gravity waves by a non-uniform current: a boundary-layer theory. <i>Journal of Fluid Mechanics</i> , 1993, 251, 239-271.	1.4	36
13	Subharmonic resonance of Venice gates in waves. Part 1. Evolution equation and uniform incident waves. <i>Journal of Fluid Mechanics</i> , 1997, 349, 295-325.	1.4	34
14	Short and long waves over a muddy seabed. <i>Journal of Fluid Mechanics</i> , 2010, 643, 33-58.	1.4	34
15	Hydrodynamic principles of wave power extraction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 208-234.	1.6	34
16	Waves of intermediate length through an array of vertical cylinders. <i>Environmental Fluid Mechanics</i> , 2014, 14, 235-261.	0.7	33
17	Bragg scattering and wave-power extraction by an array of small buoys. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 79-106.	1.0	29
18	Pressure and wall shear stress in blood hammer — Analytical theory. <i>Mathematical Biosciences</i> , 2016, 280, 62-70.	0.9	28

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19	Subharmonic resonance of Venice gates in waves. Part 2. Sinusoidally modulated incident waves. <i>Journal of Fluid Mechanics</i> , 1997, 349, 327-359.	1.4	27
20	Landslide tsunamis in lakes. <i>Journal of Fluid Mechanics</i> , 2015, 772, 784-804.	1.4	25
21	Slow spreading of fluid mud over a conical surface. <i>Journal of Fluid Mechanics</i> , 2004, 519, 337-358.	1.4	24
22	Attenuation of long interfacial waves over a randomly rough seabed. <i>Journal of Fluid Mechanics</i> , 2007, 587, 73-96.	1.4	22
23	Evolution of solitons over a randomly rough seabed. <i>Physical Review E</i> , 2004, 70, 016302.	0.8	20
24	Bragg scattering by a line array of small cylinders in a waveguide. Part 1. Linear aspects. <i>Journal of Fluid Mechanics</i> , 2007, 583, 161-187.	1.4	19
25	Wind effects on the nonlinear evolution of slowly varying gravityâ€”capillary waves. <i>Journal of Fluid Mechanics</i> , 1994, 267, 221-250.	1.4	18
26	Sound signals of tsunamis from a slender fault. <i>Journal of Fluid Mechanics</i> , 2018, 836, 352-373.	1.4	18
27	Nonlinear resonance of free surface waves in a current over a sinusoidal bottom: a numerical study. <i>Journal of Fluid Mechanics</i> , 1994, 279, 377-405.	1.4	17
28	Surface water waves over a shallow canopy. <i>Journal of Fluid Mechanics</i> , 2015, 768, 572-599.	1.4	17
29	Low-frequency spectra in a harbour excited by short and random incident waves. <i>Journal of Fluid Mechanics</i> , 2006, 563, 261.	1.4	16
30	Modulation of three resonating gravityâ€”capillary waves by a long gravity wave. <i>Journal of Fluid Mechanics</i> , 1995, 290, 345-376.	1.4	15
31	Homogenization theory applied to soil vapor extraction in aggregated soils. <i>Physics of Fluids</i> , 1996, 8, 2298-2306.	1.6	14
32	Ships advancing near the critical speed in a shallow channel with a randomly uneven bed. <i>Journal of Fluid Mechanics</i> , 2008, 616, 397-417.	1.4	14
33	Subharmonic resonance of a trapped wave near a vertical cylinder in a channel. <i>Journal of Fluid Mechanics</i> , 2006, 561, 391.	1.4	13
34	Solid landslide generated waves. <i>Journal of Fluid Mechanics</i> , 2011, 675, 529-539.	1.4	11
35	Note on tidal diffraction by a coastal barrier. <i>Applied Ocean Research</i> , 2012, 36, 22-25.	1.8	11
36	Scattering of internal tides by irregular bathymetry of large extent. <i>Journal of Fluid Mechanics</i> , 2014, 747, 481-505.	1.4	11

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37	The instability of sand ripples under partially standing surface waves. <i>Physics of Fluids</i> , 1997, 9, 1606-1620.	1.6	9
38	Flow and solute transport through a periodic array of vertical cylinders in shallow water. <i>Journal of Fluid Mechanics</i> , 2014, 756, 903-934.	1.4	9
39	Theory of isobaric pressure exchanger for desalination. <i>Desalination and Water Treatment</i> , 2012, 39, 112-122.	1.0	8
40	Effects of weak wind and damping on Wilton's ripples. <i>Journal of Fluid Mechanics</i> , 1997, 335, 141-163.	1.4	7
41	Second-order refraction and diffraction of surface water waves. <i>Journal of Fluid Mechanics</i> , 2006, 552, 137.	1.4	6
42	Advective Diffusion of Contaminants in the Surf Zone. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2013, 139, 437-454.	0.5	6
43	Nonlinear resonance in Anaconda. <i>Journal of Fluid Mechanics</i> , 2014, 750, 507-517.	1.4	6
44	Nonlinear long waves over a muddy beach. <i>Journal of Fluid Mechanics</i> , 2013, 718, 371-397.	1.4	5
45	Approximate theory of acoustic waveguide of metamaterials. <i>Journal of Fluid Mechanics</i> , 2011, 678, 203-220.	1.4	4
46	Wave-induced longitudinal vortices in a shallow current. <i>Journal of Fluid Mechanics</i> , 2006, 551, 323.	1.4	3
47	Strong Bragg scattering of low-frequency sound from a line source in shallow water. I: One uniform surface wave. <i>Journal of the Acoustical Society of America</i> , 1993, 94, 1598-1608.	0.5	2
48	Effects of a semipervious lens on soil vapour extraction. <i>Journal of Fluid Mechanics</i> , 1997, 341, 385-413.	1.4	2
49	Subharmonic resonance of a trapped wave near a vertical cylinder by narrow-banded random incident waves. <i>Journal of Engineering Mathematics</i> , 2007, 58, 157-166.	0.6	1
50	Liquid film on a hydrophobic radome or roof top in rain. <i>Journal of Fluid Mechanics</i> , 2019, 870, 1158-1174.	1.4	1
51	Tidal diffraction by a small island or cape, and tidal power from a coastal barrier. <i>Journal of Fluid Mechanics</i> , 2020, 897, .	1.4	1
52	Anchoring and migration of balloon in REBOA. <i>Journal of Fluid Mechanics</i> , 2021, 927, .	1.4	1
53	Asymptotic analysis of dispersive tsunami from a slender fault. <i>Journal of Hydrodynamics</i> , 2019, 31, 1073-1084.	1.3	0
54	LOCALIZATION OF DISPERSIVE WAVES IN WEAKLY RANDOM MEDIA. , 2005, , .		0