

Chiang Chung Mei

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

1,106
citations

18
h-index

31
g-index

54
ext. papers

1,252
ext. citations

3.5
avg, IF

4.51
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 52 | Roll waves on a shallow layer of mud modelled as a power-law fluid. <i>Journal of Fluid Mechanics</i> , 1994 , 263, 151-184 | 3.7 | 123 |
| 51 | Wave power extraction from an oscillating water column at the tip of a breakwater. <i>Journal of Fluid Mechanics</i> , 2009 , 626, 395-414 | 3.7 | 105 |
| 50 | Long waves through emergent coastal vegetation. <i>Journal of Fluid Mechanics</i> , 2011 , 687, 461-491 | 3.7 | 60 |
| 49 | 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 | 4.4 | 57 |
| 48 | 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 | 3.7 | 55 |
| 47 | Slow flow of a Bingham fluid in a shallow channel of finite width. <i>Journal of Fluid Mechanics</i> , 2001 , 431, 135-159 | 3.7 | 52 |
| 46 | Wave-power extraction by a compact array of buoys. <i>Journal of Fluid Mechanics</i> , 2009 , 635, 389-413 | 3.7 | 42 |
| 45 | Effects of surface waves on a turbulent current over a smooth or rough seabed. <i>Journal of Fluid Mechanics</i> , 2003 , 497, 253-287 | 3.7 | 40 |
| 44 | Do longshore bars shelter the shore?. <i>Journal of Fluid Mechanics</i> , 2000 , 404, 251-268 | 3.7 | 39 |
| 43 | Formation of sand bars under surface waves. <i>Journal of Fluid Mechanics</i> , 2000 , 416, 315-348 | 3.7 | 37 |
| 42 | Weakly nonlinear surface waves over a random seabed. <i>Journal of Fluid Mechanics</i> , 2003 , 475, 247-268 | 3.7 | 31 |
| 41 | Short and long waves over a muddy seabed. <i>Journal of Fluid Mechanics</i> , 2010 , 643, 33-58 | 3.7 | 30 |
| 40 | 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 | 3.7 | 30 |
| 39 | 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 | 3.7 | 29 |
| 38 | Waves of intermediate length through an array of vertical cylinders. <i>Environmental Fluid Mechanics</i> , 2014 , 14, 235-261 | 2.2 | 27 |
| 37 | Hydrodynamic principles of wave power extraction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 208-34 | 3 | 24 |
| 36 | Subharmonic resonance of Venice gates in waves. Part 2. Sinusoidally modulated incident waves. <i>Journal of Fluid Mechanics</i> , 1997 , 349, 327-359 | 3.7 | 24 |

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| 35 | 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 | 2.4 | 22 |
| 34 | Landslide tsunamis in lakes. <i>Journal of Fluid Mechanics</i> , 2015 , 772, 784-804 | 3.7 | 18 |
| 33 | Slow spreading of fluid mud over a conical surface. <i>Journal of Fluid Mechanics</i> , 2004 , 519, 337-358 | 3.7 | 18 |
| 32 | Wind effects on the nonlinear evolution of slowly varying gravity-capillary waves. <i>Journal of Fluid Mechanics</i> , 1994 , 267, 221-250 | 3.7 | 16 |
| 31 | Modulation of three resonating gravity-capillary waves by a long gravity wave. <i>Journal of Fluid Mechanics</i> , 1995 , 290, 345-376 | 3.7 | 15 |
| 30 | Attenuation of long interfacial waves over a randomly rough seabed. <i>Journal of Fluid Mechanics</i> , 2007 , 587, 73-96 | 3.7 | 14 |
| 29 | Evolution of solitons over a randomly rough seabed. <i>Physical Review E</i> , 2004 , 70, 016302 | 2.4 | 14 |
| 28 | Surface water waves over a shallow canopy. <i>Journal of Fluid Mechanics</i> , 2015 , 768, 572-599 | 3.7 | 13 |
| 27 | 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 | 3.7 | 13 |
| 26 | 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 | 3.7 | 13 |
| 25 | Pressure and wall shear stress in blood hammer - Analytical theory. <i>Mathematical Biosciences</i> , 2016 , 280, 62-70 | 3.9 | 13 |
| 24 | Homogenization theory applied to soil vapor extraction in aggregated soils. <i>Physics of Fluids</i> , 1996 , 8, 2298-2306 | 4.4 | 12 |
| 23 | Low-frequency spectra in a harbour excited by short and random incident waves. <i>Journal of Fluid Mechanics</i> , 2006 , 563, 261 | 3.7 | 11 |
| 22 | Subharmonic resonance of a trapped wave near a vertical cylinder in a channel. <i>Journal of Fluid Mechanics</i> , 2006 , 561, 391 | 3.7 | 11 |
| 21 | Sound signals of tsunamis from a slender fault. <i>Journal of Fluid Mechanics</i> , 2018 , 836, 352-373 | 3.7 | 10 |
| 20 | Flow and solute transport through a periodic array of vertical cylinders in shallow water. <i>Journal of Fluid Mechanics</i> , 2014 , 756, 903-934 | 3.7 | 9 |
| 19 | The instability of sand ripples under partially standing surface waves. <i>Physics of Fluids</i> , 1997 , 9, 1606-1620 | 4.4 | 9 |
| 18 | Note on tidal diffraction by a coastal barrier. <i>Applied Ocean Research</i> , 2012 , 36, 22-25 | 3.4 | 8 |

- 17 Solid landslide generated waves. *Journal of Fluid Mechanics*, **2011**, 675, 529-539 3.7 8
- 16 Scattering of internal tides by irregular bathymetry of large extent. *Journal of Fluid Mechanics*, **2014**, 747, 481-505 3.7 7
- 15 Theory of isobaric pressure exchanger for desalination. *Desalination and Water Treatment*, **2012**, 39, 112-122 7
- 14 Ships advancing near the critical speed in a shallow channel with a randomly uneven bed. *Journal of Fluid Mechanics*, **2008**, 616, 397-417 3.7 7
- 13 Effects of weak wind and damping on Wilton's ripples. *Journal of Fluid Mechanics*, **1997**, 335, 141-163 3.7 6
- 12 Second-order refraction and diffraction of surface water waves. *Journal of Fluid Mechanics*, **2006**, 552, 137 3.7 6
- 11 Nonlinear resonance in Anaconda. *Journal of Fluid Mechanics*, **2014**, 750, 507-517 3.7 4
- 10 Nonlinear long waves over a muddy beach. *Journal of Fluid Mechanics*, **2013**, 718, 371-397 3.7 4
- 9 Approximate theory of acoustic waveguide of metamaterials. *Journal of Fluid Mechanics*, **2011**, 678, 203-220 3.7 3
- 8 Advective Diffusion of Contaminants in the Surf Zone. *Journal of Waterway, Port, Coastal and Ocean Engineering*, **2013**, 139, 437-454 1.7 2
- 7 Effects of a semipervious lens on soil vapour extraction. *Journal of Fluid Mechanics*, **1997**, 341, 385-413 3.7 2
- 6 Strong Bragg scattering of low-frequency sound from a line source in shallow water. I: One uniform surface wave. *Journal of the Acoustical Society of America*, **1993**, 94, 1598-1608 2.2 2
- 5 Liquid film on a hydrophobic radome or roof top in rain. *Journal of Fluid Mechanics*, **2019**, 870, 1158-1174 3.7 1
- 4 Tidal diffraction by a small island or cape, and tidal power from a coastal barrier. *Journal of Fluid Mechanics*, **2020**, 897, 3.7 1
- 3 Subharmonic resonance of a trapped wave near a vertical cylinder by narrow-banded random incident waves. *Journal of Engineering Mathematics*, **2007**, 58, 157-166 1.2 1
- 2 Wave-induced longitudinal vortices in a shallow current. *Journal of Fluid Mechanics*, **2006**, 551, 323 3.7 1
- 1 Asymptotic analysis of dispersive tsunami from a slender fault. *Journal of Hydrodynamics*, **2019**, 31, 1073-1084 3.5