Kwok Wing Chow

List of Publications by Year
in descending order

126	2,504	201575	254106
papers	citations	27 h-index	43 g-index

127	127	127	1697
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comparative study on computational fluid dynamic, fluid-structure interaction and static structural analyses of cerebral aneurysm. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 262-278.	1.5	5
2	The Fermiâ€“Pastaâ€“Ulamâ€“Tsingou recurrence for discrete systems: Cascading mechanism and machine learning for the Ablowitzâ€“Ladik equation. Communications in Nonlinear Science and Numerical Simulation, 2022, 114, 106664.	1.7	10
3	Coupled triads in the dynamics of internal waves: Case study using a linearly stratified fluid. Physical Review Fluids, 2021, 6, .	1.0	7
4	Completely resonant collision of lumps and line solitons in the Kadomtsevâ€“Petviashvili I equation. Studies in Applied Mathematics, 2021, 147, 1007-1035.	1.1	66
5	Four-wave mixing and coherently coupled SchrÃ¶dinger equations: Cascading processes and Fermiâ€“Pastaâ€“Ulamâ€“Tsingou recurrence. Chaos, 2021, 31, 083117.	1.0	17
6	Breathers, cascading instabilities and Fermiâ€“Pastaâ€“Ulamâ€“Tsingou recurrence of the derivative nonlinear SchrÃ¶dinger equation: Effects of â€˜self-steepeningâ€™ nonlinearity. Physica D: Nonlinear Phenomena, 2021, 428, 133033.	1.3	16
7	Computational study on the transmission of the SARS-CoV-2 virus through aerosol in an elevator cabin: Effect of the ventilation system. Physics of Fluids, 2021, 33, 103325.	1.6	9
8	Families of Rational and Semirational Solutions of the Partial Reverse Space-Time Nonlocal Melâ€²nikov Equation. Complexity, 2020, 2020, 1-18.	0.9	2
9	Employing the dynamics of poles in the complex plane to describe properties of rogue waves: case studies using the Boussinesq and complex modified Kortewegâ€“de Vries equations. Nonlinear Dynamics, 2020, 99, 2961-2970.	2.7	5
10	Effects of aspect ratio, wall thickness and hypertension in the patient-specific computational modeling of cerebral aneurysms using fluid-structure interaction analysis. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 229-244.	1.5	10
11	A Computational Hemodynamics Analysis on the Correlation Between Energy Loss and Clinical Outcomes for Flow Diverters Treatment of Intracranial Aneurysm. Journal of Medical and Biological Engineering, 2019, 39, 27-42.	1.0	0
12	Modulation instability and rogue waves for shear flows with a free surface. Physical Review Fluids, 2019, 4, .	1.0	4
13	Numerical Investigation of the Dynamics of â€˜Hot Spotsâ€™ as Models of Dissipative Rogue Waves. Applied Sciences (Switzerland), 2018, 8, 1223.	1.3	1
14	Analysis of flow patterns on branched endografts for aortic arch aneurysms. Informatics in Medicine Unlocked, 2018, 13, 62-70.	1.9	8
15	The coupled Hirota system as an example displaying discrete breathers: Rogue waves, modulation instability and varying cross-phase modulations. AIP Advances, 2018, 8, 095303.	0.6	6
16	The effect of downstream resistance on flow diverter treatment of a cerebral aneurysm at a bifurcation: A joint computational-experimental study. Journal of Hydrodynamics, 2018, 30, 803-814.	1.3	5
17	Periodic and localized wave patterns for coupled Ablowitz-Ladik systems with negative cross phase modulation. Communications in Nonlinear Science and Numerical Simulation, 2018, 65, 185-195.	1.7	9
18	Internal rogue waves in stratified flows and the dynamics of wave packets. Nonlinear Analysis: Real World Applications, 2018, 44, 449-464.	0.9	7

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19	Modeling internal rogue waves in a long wave-short wave resonance framework. Physical Review Fluids, 2018, 3, .	1.0	10
20	Rogue Waves for an Alternative System of Coupled Hirota Equations: Structural Robustness and Modulation Instabilities. Studies in Applied Mathematics, 2017, 139, 78-103.	1.1	21
21	A connection between the maximum displacements of rogue waves and the dynamics of poles in the complex plane. Chaos, 2017, 27, 091103.	1.0	9
22	The Dynamics and Evolution of Poles and Rogue Waves for Nonlinear SchrÃ¶dinger Equations [*]. Communications in Theoretical Physics, 2017, 68, 290.	1.1	7
23	Rogue Wave Modes for the Coupled Nonlinear SchrÃ¶dinger System with Three Components: A Computational Study. Applied Sciences (Switzerland), 2017, 7, 559.	1.3	12
24	High Sensitivity, Wearable, Piezoresistive Pressure Sensors Based on Irregular Microhump Structures and Its Applications in Body Motion Sensing. Small, 2016, 12, 3827-3836.	5.2	177
25	Effects of Ellipticity Angle on Modulation Instabilities in Birefringent Optical Fibers. Communications in Theoretical Physics, 2016, 65, 231-236.	1.1	15
26	A joint computational-experimental study of intracranial aneurysms: Importance of the aspect ratio. Journal of Hydrodynamics, 2016, 28, 462-472.	1.3	5
27	Localized modes of the Hirota equation: Nth order rogue wave and a separation of variable technique. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 118-133.	1.7	7
28	Rogue waves for a system of coupled derivative nonlinear SchrÃ¶dinger equations. Physical Review E, 2016, 93, 012217.	0.8	36
29	Rogue waves for a long waveâ€“short wave resonance model with multiple short waves. Nonlinear Dynamics, 2016, 85, 2827-2841.	2.7	23
30	Generation of a train of ultrashort pulses using periodic waves in tapered photonic crystal fibres. Journal of Modern Optics, 2016, 63, 2246-2258.	0.6	2
31	Correlating Hemodynamic Changes and Occlusion Time after Flow Diverter Treatment of Bilateral Large Internal Carotid Artery Aneurysms. Clinical Neuroradiology, 2016, 26, 477-480.	1.0	6
32	Modulational Instability and Rogue Waves in Shallow Water Models. Lecture Notes in Physics, 2016, , 135-151.	0.3	3
33	A coupled â€œABâ€•system: Rogue waves and modulation instabilities. Chaos, 2015, 25, 103113.	1.0	40
34	Blood flow in intracranial aneurysms treated with Pipeline embolization devices: computational simulation and verification with Doppler ultrasonography on phantom models. Ultrasonography, 2015, 34, 98-108.	1.0	76
35	Breathers and â€˜blackâ€™ rogue waves of coupled nonlinear SchrÃ¶dinger equations with dispersion and nonlinearity of opposite signs. Communications in Nonlinear Science and Numerical Simulation, 2015, 28, 28-38.	1.7	30
36	Changing forms and sudden smooth transitions of tsunami waves. Journal of Ocean Engineering and Marine Energy, 2015, 1, 145-156.	0.9	9

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37	A system of coupled partial differential equations exhibiting both elevation and depression rogue wave modes. Applied Mathematics Letters, 2015, 47, 35-42.	1.5	7
38	Propagation of Solitary Pulses in Optical Fibers with Both Self-Steepening and Quintic Nonlinear Effects. Communications in Theoretical Physics, 2014, 61, 735-741.	1.1	4
39	Symmetric and antisymmetric nonlinear modes supported by dual local gain in lossy lattices. European Physical Journal: Special Topics, 2014, 223, 63-77.	1.2	6
40	Switching of ultrashort pulses in nonlinear high-birefringence two-core optical fibers. Optics Communications, 2014, 318, 11-16.	1.0	6
41	Rogue wave modes for a derivative nonlinear SchrÃ¶dinger model. Physical Review E, 2014, 89, 032914.	0.8	81
42	Pinned modes in two-dimensional lossy lattices with local gain and nonlinearity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140018.	1.6	8
43	Matter-wave solitons in a spin-1 Bose-Einstein condensate with time-modulated external potential and scattering lengths. European Physical Journal D, 2013, 67, 1.	0.6	14
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, .	0.4	2
45	Rogue Wave Modes for the Long Waveâ€“Short Wave Resonance Model. Journal of the Physical Society of Japan, 2013, 82, 074001.	0.7	51
46	Modulation instabilities in birefringent two-core optical fibres. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 165404.	0.6	22
47	Propagating Wave Patterns in a Derivative Nonlinear SchrÃ¶dinger System with Quintic Nonlinearity. Journal of the Physical Society of Japan, 2012, 81, 094005.	0.7	16
48	Pinned modes in lossy lattices with local gain and nonlinearity. Physical Review E, 2012, 86, 036608.	0.8	19
49	Biomechanical Factors Influencing Type B Thoracic Aortic Dissection: Computational Fluid Dynamics Study. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 622-632.	1.5	16
50	Localized pulses for the quintic derivative nonlinear SchrÃ¶dinger equation on a continuous-wave background. Physical Review E, 2012, 86, 037601.	0.8	45
51	Exact solutions for oscillators with quadratic damping and mixed-parity nonlinearity. Physica Scripta, 2012, 85, 045006.	1.2	14
52	The One Dimensional Motion of a Monatomic Gas with a Gaussian Decay in Density. Journal of the Physical Society of Japan, 2012, 81, 035004.	0.7	1
53	Accurate analytical perturbation approach for large amplitude vibration of functionally graded beams. International Journal of Non-Linear Mechanics, 2012, 47, 473-480.	1.4	34
54	Modulation Instabilities in Birefringent Two-core Optical Fibers. , 2012, , .		0

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55	Darboux covariant Lax pairs and infinite conservation laws of the (2+1)-dimensional breaking soliton equation. Journal of Mathematical Physics, 2011, 52, .	0.5	59
56	Modulation instabilities in two-core optical fibers. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1693.	0.9	70
57	Exact Solutions for Domain Walls in Coupled Complex Ginzburgâ€“Landau Equations. Journal of the Physical Society of Japan, 2011, 80, 064001.	0.7	5
58	Periodic solutions of a derivative nonlinear SchrÃ¶dinger equation: Elliptic integrals of the third kind. Journal of Computational and Applied Mathematics, 2011, 235, 3825-3830.	1.1	12
59	Integrable NLS equation with time-dependent nonlinear coefficient and self-similar attractive BEC. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 86-92.	1.7	5
60	Multistable dissipative structures pinned to dual hot spots. Physical Review E, 2011, 84, 066609.	0.8	27
61	Steady transcritical flow over an obstacle: Parametric map of solutions of the forced extended Kortewegâ€“de Vries equation. Physics of Fluids, 2011, 23, 046602.	1.6	6
62	Logarithmic nonlinear SchroÂ·Â·dinger equation and irrotational, compressible flows: An exact solution. Physical Review E, 2011, 84, 016308.	0.8	3
63	Exact solutions for periodic and solitary matter waves in nonlinear lattices. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 1299-1325.	0.6	9
64	A â€œLocalized Pulseâ€“Moving Frontâ€•Pair in a System of Coupled Complex Ginzburgâ€“Landau Equations. Journal of the Physical Society of Japan, 2010, 79, 124003.	0.7	6
65	Solitons pinned to hot spots. European Physical Journal D, 2010, 59, 81-89.	0.6	33
66	On the periodic solutions for both nonlinear differential and difference equations: A unified approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3629-3634.	0.9	16
67	Steady transcritical flow over a hole: Parametric map of solutions of the forced Kortewegâ€“de Vries equation. Physics of Fluids, 2010, 22, .	1.6	23
68	Periodic and solitary waves in systems of coherently coupled nonlinear envelope equations. International Journal of Computer Mathematics, 2010, 87, 1083-1093.	1.0	6
69	Two Exact Solutions of the Tzitzeica-Bullough-Dodd Equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	0.4	0
70	Free surface waves on shear currents with non-uniform vorticity: third-order solutions. Fluid Dynamics Research, 2009, 41, 035511.	0.6	15
71	Effect of birefringence on the modulation instabilities of a system of coherently coupled nonlinear SchrÃ¶dinger equations. Physical Review A, 2009, 79, .	1.0	29
72	A Resonant Davey-Stewartson Capillarity Model System: Solitonic Generation. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	0.4	19

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73	Transcritical Flow Over a Hole. Studies in Applied Mathematics, 2009, 122, 235-248.	1.1	11
74	Propagating wave patterns for the â€˜resonantâ€™ Daveyâ€“Stewartson system. Chaos, Solitons and Fractals, 2009, 42, 2707-2712.	2.5	18
75	Exact stationary wave patterns in three coupled nonlinear SchrÃ¶dinger/Grossâ€“Pitaevskii equations. Chaos, Solitons and Fractals, 2009, 42, 3013-3019.	2.5	47
76	Spatial solitons supported by localized gain in nonlinear optical waveguides. European Physical Journal: Special Topics, 2009, 173, 233-243.	1.2	62
77	Dissipative Solitons in Coupled Complex Ginzburgâ€“Landau Equations. Journal of the Physical Society of Japan, 2009, 78, 084001.	0.7	11
78	A computational study on the biomechanical factors related to stent-graft models in the thoracic aorta. Medical and Biological Engineering and Computing, 2008, 46, 1129-1138.	1.6	62
79	Modulation instabilities in a system of four coupled, nonlinear SchrÃ¶dinger equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4596-4600.	0.9	24
80	On stent-graft models in thoracic aortic endovascular repair: A computational investigation of the hemodynamic factors. Computers in Biology and Medicine, 2008, 38, 484-489.	3.9	54
81	The discrete modified Kortewegâ€“de Vries equation with non-vanishing boundary conditions: Interactions of solitons. Chaos, Solitons and Fractals, 2008, 36, 296-302.	2.5	19
82	Electrohydrodynamic stability of poorly conducting parallel fluid flow in the presence of transverse electric field. International Journal of Non-Linear Mechanics, 2008, 43, 643-649.	1.4	2
83	Doubly periodic waves of a discrete nonlinear Schrodinger system with saturable nonlinearity. Journal of Nonlinear Mathematical Physics, 2008, 15, 398.	0.8	8
84	Transmission and Stability of Solitary Pulses in Complex Ginzburgâ€“Landau Equations with Variable Coefficients. Journal of the Physical Society of Japan, 2008, 77, 054001.	0.7	24
85	Periodic waves in fiber Bragg gratings. Physical Review E, 2008, 77, 026602.	0.8	15
86	Novel Solitary Pulses for a Variable-Coefficient Derivative Nonlinear SchrÃ¶dinger Equation. Journal of the Physical Society of Japan, 2007, 76, 074004.	0.7	14
87	Solitary wave solution for a non-integrable, variable coefficient nonlinear SchrÃ¶dinger equation. Physica Scripta, 2007, 75, 620-623.	1.2	8
88	A Computational investigation on the Effect of Biomechanical Factors Related to Stent-graft Models in the Thoracic Aorta. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 943-6.	0.5	4
89	<title>Transmission of solitary pulses in inhomogeneous, nonlinear media: exact solutions</title>. Proceedings of SPIE, 2007, , .	0.8	0
90	Solitons in Bragg gratings with saturable nonlinearities. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1458.	0.9	13

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91	Generation of solitary waves by transcritical flow over a step. Journal of Fluid Mechanics, 2007, 587, 235-254.	1.4	26
92	New interaction solutions of multiply periodic, quasi-periodic and non-periodic waves for the (n+) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	2.5	18
93	A novel class of model constitutive laws in nonlinear elasticity: Construction via Loewner theory. Theoretical and Mathematical Physics(Russian Federation), 2007, 152, 1030-1042.	0.3	6
94	Nonlinear excitations and â€œpeakonsâ€•of a (2+1)-dimensional generalized Broer-Kaup system. Acta Mechanica Sinica/Lixue Xuebao, 2007, 23, 209-214.	1.5	2
95	Doubly periodic and multiple pole solutions of the sinh-Poisson equation: Application of reciprocal transformations in subsonic gas dynamics. Journal of Computational and Applied Mathematics, 2006, 190, 114-126.	1.1	9
96	Propagating wave patterns and â€œpeakonsâ€•of the Daveyâ€“Stewartson system. Chaos, Solitons and Fractals, 2006, 27, 561-567.	2.5	25
97	Analytic doubly periodic wave patterns for the integrable discrete nonlinear SchrÃ¶dinger (Ablowitzâ€“Ladik) model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 422-429.	0.9	28
98	Exact solitary- and periodic-wave modes in coupled equations with saturable nonlinearity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 37-41.	0.9	10
99	A simple model for the two dimensional blood flow in the collapse of veins. Journal of Mathematical Biology, 2006, 52, 733-744.	0.8	12
100	Singular Nonlinearity Management for Matter-Wave Solitons in Normal and Inverted Parabolic Potentials. Journal of the Physical Society of Japan, 2006, 75, 114004.	0.7	6
101	Periodic Waves of a Discrete Higher Order Nonlinear SchrÃ¶dinger Equation. Communications in Theoretical Physics, 2006, 46, 961-965.	1.1	1
102	Coupled periodic waves with opposite dispersions in a nonlinear optical fiber. Optics Communications, 2005, 249, 117-128.	1.0	20
103	Interactions of breathers and solitons in the extended Kortewegâ€“de Vries equation. Wave Motion, 2005, 43, 158-166.	1.0	98
104	On TzitzÃ©ica Vortex Streets and Their Reciprocals in Subsonic Gas Dynamics. Studies in Applied Mathematics, 2005, 114, 271-283.	1.1	5
105	Some novel nonlinear coherent excitations of the Daveyâ€“Stewartson system. Journal of Physics A, 2005, 38, 10361-10375.	1.6	8
106	Soliton Pulse Propagation in Averaged Dispersion-managed Optical Fiber System. Journal of the Physical Society of Japan, 2005, 74, 1449-1456.	0.7	27
107	THREE DIMENSIONAL WAVE PATTERNS FOR WATER WAVES ON A FINITE DEPTH: THE DAVEY â€“ STEWARTSON SYSTEM. , 2005, , .		0
108	Vortex arrays for sinh-Poisson equation of two-dimensional fluids: Equilibria and stability. Physics of Fluids, 2004, 16, 3296-3305.	1.6	24

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109	The evolution of periodic waves of the coupled nonlinear SchrÃ¶dinger equations. Mathematics and Computers in Simulation, 2004, 66, 551-564.	2.4	18
110	Rational function representations of wave patterns inÂhigher-dimensional and discrete evolution equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 404-411.	0.9	6
111	Soliton interaction in a two-core optical fiber. Optics Communications, 2004, 229, 431-439.	1.0	60
112	Multiple-Pole soliton interactions in optical fibres with higher-order effects. Journal of Modern Optics, 2004, 51, 455-460.	0.6	7
113	Periodic waves in bimodal optical fibers. Optics Communications, 2003, 219, 251-259.	1.0	34
114	Periodic waves for a system of coupled, higher order nonlinear SchrÃ¶dinger equations with third order dispersion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 426-431.	0.9	19
115	Periodic solutions for systems of coupled nonlinear SchrÃ¶dinger equations with three and four components. Physical Review E, 2003, 68, 017601.	0.8	14
116	Another exact solution for two-dimensional, inviscid sinh Poisson vortex arrays. Physics of Fluids, 2003, 15, 2437-2440.	1.6	19
117	(2+1) Dimensional Wave Patterns of the Daveyâ€“Stewartson System. Journal of the Physical Society of Japan, 2003, 72, 3070-3074.	0.7	2
118	Periodic solutions for systems of coupled nonlinear SchrÃ¶dinger equations with five and six components. Physical Review E, 2002, 65, 026613.	0.8	17
119	Transcritical flow of a stratified fluid: The forced extended Kortewegâ€“de Vries model. Physics of Fluids, 2002, 14, 755-774.	1.6	25
120	A class of doubly periodic waves for nonlinear evolution equations. Wave Motion, 2002, 35, 71-90.	1.0	85
121	Periodic solutions for a system of four coupled nonlinear SchrÃ¶dinger equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 319-326.	0.9	49
122	Positon-like Solutions of Nonlinear Evolution Equations in (2+1) Dimensionsfn2fn2Communicated by Prof. Hao Bai-Lin.. Chaos, Solitons and Fractals, 1998, 9, 1901-1912.	2.5	28
123	Inviscid two dimensional vortex dynamics and a soliton expansion of the sinh-Poisson equation. Physics of Fluids, 1998, 10, 1111-1119.	1.6	24
124	Solitons in (2 + 0) dimensions and their applications in vortex dynamics. Fluid Dynamics Research, 1997, 21, 101-114.	0.6	9
125	Do resonantly forced internal solitary waves protect the fuel of hurricanes?. Physical Review Letters, 1993, 71, 1951-1954.	2.9	3
126	A Note on Inviscid Secondary Instability in Shear Flows. Studies in Applied Mathematics, 1990, 83, 183-192.	1.1	0