Francesco Fedele

List of Publications by Year
in descending order

86 papers	1,999 citations

304602

22 h-index	

254106

43 g-index	

86 all docs	86 docs citations

86 times ranked	1009 citing authors

#	Article	IF	Citations
1	Crest speeds of unsteady surface water waves. Journal of Fluid Mechanics, 2020, 899, .	1.4	7
2	Large nearshore storm waves off the Irish coast. Scientific Reports, 2019, 9, 15406.	1.6	23
3	On a unified breaking onset threshold for gravity waves in deep and intermediate depth water. Journal of Fluid Mechanics, 2018, 841, 463-488.	1.4	71
4	Some special solutions to the Hyperbolic NLS equation. Communications in Nonlinear Science and Numerical Simulation, 2018, 57, 202-220.	1.7	4
5	Structural dynamic problems in time domain under uncertainty: an interval finite element approach. International Journal of Reliability and Safety, 2018, 12, 122.	0.2	0
6	The sinking of the El Faro: predicting real world rogue waves during Hurricane Joaquin. Scientific Reports, 2017, 7, 11188.	1.6	46
7	Interval Finite Element Approach for Modal Analysis of Linear Elastic Structures Under Uncertainty. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 143-150.	0.3	0
8	Kinematics of fluid particles on the sea surface: Hamiltonian theory. Journal of Fluid Mechanics, 2016, 801, 260-288.	1.4	16
9	Real world ocean rogue waves explained without the modulational instability. Scientific Reports, 2016, 6, 27715.	1.6	189
10	Are Rogue Waves Really Unexpected?. Journal of Physical Oceanography, 2016, 46, 1495-1508.	0.7	6
11	Symmetry reduction of turbulent pipe flows. Journal of Fluid Mechanics, 2015, 779, 390-410.	1.4	13
12	On the kurtosis of deep-water gravity waves. Journal of Fluid Mechanics, 2015, 782, 25-36.	1.4	66
13	Adjoint Active Surfaces for Localization and Imaging. IEEE Transactions on Image Processing, 2015, 24, 316-331.	6.0	1
14	Interval-Based Approach for Uncertainty Propagation in Inverse Problems. Journal of Engineering Mechanics - ASCE, 2015, 141, .	1.6	13
15	Geometric phases of water waves. Europhysics Letters, 2014, 107, 69001.	0.7	21
16	Joint 4-D Variational Stereo Reconstruction and Camera Calibration Refinement for Oceanic Sea State Measurements. , 2014, , .		0
17	On certain properties of the compact Zakharov equation. Journal of Fluid Mechanics, 2014, 748, 692-711.	1.4	24
18	On the persistence of breathers at deep water. JETP Letters, 2014, 98, 523-527.	0.4	5

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19	Linking Reduced Breaking Crest Speeds to Unsteady Nonlinear Water Wave Group Behavior. Physical Review Letters, 2014, 112, 114502.	2.9	70
20	Camassaâ€"Holm equations and vortexons for axisymmetric pipe flows. Fluid Dynamics Research, 2014, 46, 015503.	0.6	1
21	Geometric numerical schemes for the KdV equation. Computational Mathematics and Mathematical Physics, 2013, 53, 221-236.	0.2	28
22	Surface Waves in Laterally Heterogeneous Media. Journal of Engineering Mechanics - ASCE, 2013, 139, 1158-1165.	1.6	6
23	Variational Stereo Imaging of Oceanic Waves With Statistical Constraints. IEEE Transactions on Image Processing, 2013, 22, 4211-4223.	6.0	6
24	Camassaâ€"Holm Type Equations for Axisymmetric Poiseuille Pipe Flows. Procedia IUTAM, 2013, 9, 16-24.	1.2	0
25	Spaceâ€"time measurements of oceanic sea states. Ocean Modelling, 2013, 70, 103-115.	1.0	71
26	Vortexons in axisymmetric Poiseuille pipe flows. Europhysics Letters, 2013, 101, 34003.	0.7	4
27	Two Variational Stereo Methods for Space-Time Measurements of Ocean Waves. , 2013, , .		0
28	Improving 3-D Variational Stereo Reconstruction of Oceanic Sea States by Camera Calibration Refinement. , 2013, , .		0
29	Spaceâ€"Time Extremes in Short-Crested Storm Seas. Journal of Physical Oceanography, 2012, 42, 1601-1615.	0.7	54
30	Wave climate of the Adriatic Sea: a future scenario simulation. Natural Hazards and Earth System Sciences, 2012, 12, 2065-2076.	1.5	45
31	Interval-based Inverse Problems with Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1079-1084.	0.4	1
32	Special solutions to a compact equation for deep-water gravity waves. Journal of Fluid Mechanics, 2012, 712, 646-660.	1.4	18
33	Solitary wave interaction in a compact equation for deep-water gravity waves. JETP Letters, 2012, 95, 622-625.	0.4	11
34	Geometric Seismic-Wave Inversion by the Boundary Element Method. Bulletin of the Seismological Society of America, 2012, 102, 802-811.	1.1	12
35	Two-Dimensional Seismic Wave Modeling and Inversion by the Boundary Element Method. , 2012, , .		2
36	Travelling waves in axisymmetric pipe flows. Fluid Dynamics Research, 2012, 44, 045509.	0.6	5

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37	Offshore stereo measurements of gravity waves. Coastal Engineering, 2012, 64, 127-138.	1.7	102
38	Euler characteristics of oceanic sea states. Mathematics and Computers in Simulation, 2012, 82, 1102-1111.	2.4	19
39	Hamiltonian form and solitary waves of the spatial Dysthe equations. JETP Letters, 2012, 94, 840-844.	0.4	13
40	Weak Statistical Constraints for Variational Stereo Imaging of Oceanic Waves. Lecture Notes in Computer Science, 2012, , 520-531.	1.0	2
41	A Variational Wave Acquisition Stereo System for the 3-D Reconstruction of Oceanic Sea States. , 2011, , .		1
42	Space-Time Waves and Spectra in the Northern Adriatic Sea via a Wave Acquisition Stereo System. , 2011, , .		8
43	A Variational Stereo Method for the Three-Dimensional Reconstruction of Ocean Waves. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4445-4457.	2.7	46
44	Space-Time Extremes in Sea Storms. , 2011, , .		2
45	Long-Term Statistics and Extreme Waves of Sea Storms. Journal of Physical Oceanography, 2010, 40, 1106-1117.	0.7	45
46	Nonlinear Schrödinger invariants and wave statistics. Physics of Fluids, 2010, 22, .	1.6	52
47	Extreme Waves of Sea Storms. , 2010, , .		1
48	Nonlinear Wave Statistics. , 2010, , .		0
49	The Equivalent Power Storm Model for Long-Term Predictions of Extreme Wave Events. , 2009, , .		6
50	On nonlinear wave groups and crest statistics. Journal of Fluid Mechanics, 2009, 620, 221-239.	1.4	111
51	On the statistics of oceanic waves. International Journal of Reliability and Safety, 2009, 3, 258.	0.2	1
52	Beyond Waves and Spectra: Euler Characteristics of Oceanic Sea States. , 2009, , .		2
53	Rogue waves in oceanic turbulence. Physica D: Nonlinear Phenomena, 2008, 237, 2127-2131.	1.3	64
54	Wave Statistics and Spectra via a Variational Wave Acquisition Stereo System. , 2008, , .		13

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55	Rogue Waves in Oceanic Turbulence. , 2008, , .		1
56	Envelope and Phase Statistics of Large Waves. , 2008, , .		3
57	Explaining extreme waves by a theory of stochastic wave groups. Computers and Structures, 2007, 85, 291-303.	2.4	12
58	Wave-height distributions and nonlinear effects. Ocean Engineering, 2007, 34, 1631-1649.	1.9	206
59	Expected Shape of Extreme Waves in Storm Seas. , 2007, , .		14
60	Wave-Height Distributions and Nonlinear Effects. , 2006, , 1.		3
61	On wave groups in a Gaussian sea. Ocean Engineering, 2006, 33, 2225-2239.	1.9	8
62	Extreme Events in Nonlinear Random Seas. Journal of Offshore Mechanics and Arctic Engineering, 2006, 128, 11-16.	0.6	12
63	Extreme Waves and Stochastic Wave Groups. , 2006, , .		0
64	Transport, Growth, and Stability of Disturbances in Weakly Rarefied Channel Flows. Journal of Computational and Theoretical Nanoscience, 2006, 3, 497-505.	0.4	0
65	Revisiting the stability of pulsatile pipe flow. European Journal of Mechanics, B/Fluids, 2005, 24, 237-254.	1.2	19
66	Properties of Defect Modes in One-Dimensional Optically Induced Photonic Lattices. Studies in Applied Mathematics, 2005, 115, 279-301.	1.1	40
67	Fluorescence photon migration by the boundary element method. Journal of Computational Physics, 2005, 210, 109-132.	1.9	20
68	Successive wave crests in Gaussian seas. Probabilistic Engineering Mechanics, 2005, 20, 355-363.	1.3	11
69	Weakly nonlinear statistics of high random waves. Physics of Fluids, 2005, 17, 026601.	1.6	68
70	Nonlinear Space–Time Evolution of Wave Groups With a High Crest. Journal of Offshore Mechanics and Arctic Engineering, 2005, 127, 46-51.	0.6	12
71	Defect modes in one-dimensional photonic lattices. Optics Letters, 2005, 30, 1506.	1.7	117
72	On the Linear Stability of Weakly Rarefied Flows in Microchannels. , 2005, , .		0

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73	Defect Modes in One-dimensional Optically-induced Photonic Lattices. , 2005, , .		1
74	Observation of Defect Modes in Optically-induced Photonic Lattices. , 2005, , .		0
75	Single-degree of freedom Hermite collocation for multiphase flow and transport in porous media. International Journal for Numerical Methods in Fluids, 2004, 44, 1337-1354.	0.9	1
76	Boundary Element Solution of the Coupled Fluorescence Diffusion Equations. , 2004, , .		0
77	Coupled complex adjoint sensitivities for frequency-domain fluorescence tomography: theory and vectorized implementation. Journal of Computational Physics, 2003, 187, 597-619.	1.9	59
78	A comparison of exact and approximate adjoint sensitivities in fluorescence tomography. IEEE Transactions on Medical Imaging, 2003, 22, 1215-1223.	5.4	31
79	Non-Linear Space-Time Evolution of Wave Groups With a High Crest. , 2003, , .		3
80	Localized-adjoint-finite-element-method for sub-grid stabilization of convection-dominated transport on a triangular mesh. Developments in Water Science, 2002, , 389-396.	0.1	0
81	Multiphase groundwater flow and transport using a new localized collocation method (LOCOM). Developments in Water Science, 2002, , 241-248.	0.1	1
82	Intensity and Duration of Sea Storms off the Californian Coast. , 2002, , 126.		3
83	A family of narrow-band non-linear stochastic processes for the mechanics of sea waves. European Journal of Mechanics, B/Fluids, 2002, 21, 125-137.	1.2	16
84	Uncertainty Analysis of Static Plane Problems by Intervals. SAE International Journal of Materials and Manufacturing, 0, 8, 374-381.	0.3	7
85	Interval Finite Element Analysis of Structural Dynamic Problems. SAE International Journal of Materials and Manufacturing, 0, 8, 382-389.	0.3	4
86	On the Momentary Stability of the Laminar Boundary Layer Beneath a Stokes Wave. Water Waves, 0, , .	0.3	0