

# Francesco Fedele

## List of Publications by Year in descending order

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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	Wave-height distributions and nonlinear effects. <i>Ocean Engineering</i> , 2007, 34, 1631-1649.	1.9	206
2	Real world ocean rogue waves explained without the modulational instability. <i>Scientific Reports</i> , 2016, 6, 27715.	1.6	189
3	Defect modes in one-dimensional photonic lattices. <i>Optics Letters</i> , 2005, 30, 1506.	1.7	117
4	On nonlinear wave groups and crest statistics. <i>Journal of Fluid Mechanics</i> , 2009, 620, 221-239.	1.4	111
5	Offshore stereo measurements of gravity waves. <i>Coastal Engineering</i> , 2012, 64, 127-138.	1.7	102
6	Space-time measurements of oceanic sea states. <i>Ocean Modelling</i> , 2013, 70, 103-115.	1.0	71
7	On a unified breaking onset threshold for gravity waves in deep and intermediate depth water. <i>Journal of Fluid Mechanics</i> , 2018, 841, 463-488.	1.4	71
8	Linking Reduced Breaking Crest Speeds to Unsteady Nonlinear Water Wave Group Behavior. <i>Physical Review Letters</i> , 2014, 112, 114502.	2.9	70
9	Weakly nonlinear statistics of high random waves. <i>Physics of Fluids</i> , 2005, 17, 026601.	1.6	68
10	On the kurtosis of deep-water gravity waves. <i>Journal of Fluid Mechanics</i> , 2015, 782, 25-36.	1.4	66
11	Rogue waves in oceanic turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2127-2131.	1.3	64
12	Coupled complex adjoint sensitivities for frequency-domain fluorescence tomography: theory and vectorized implementation. <i>Journal of Computational Physics</i> , 2003, 187, 597-619.	1.9	59
13	Space-Time Extremes in Short-Crested Storm Seas. <i>Journal of Physical Oceanography</i> , 2012, 42, 1601-1615.	0.7	54
14	Nonlinear Schrödinger invariants and wave statistics. <i>Physics of Fluids</i> , 2010, 22, .	1.6	52
15	A Variational Stereo Method for the Three-Dimensional Reconstruction of Ocean Waves. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4445-4457.	2.7	46
16	The sinking of the El Faro: predicting real world rogue waves during Hurricane Joaquin. <i>Scientific Reports</i> , 2017, 7, 11188.	1.6	46
17	Long-Term Statistics and Extreme Waves of Sea Storms. <i>Journal of Physical Oceanography</i> , 2010, 40, 1106-1117.	0.7	45
18	Wave climate of the Adriatic Sea: a future scenario simulation. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 2065-2076.	1.5	45

#	ARTICLE	IF	CITATIONS
19	Properties of Defect Modes in One-Dimensional Optically Induced Photonic Lattices. <i>Studies in Applied Mathematics</i> , 2005, 115, 279-301.	1.1	40
20	A comparison of exact and approximate adjoint sensitivities in fluorescence tomography. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 1215-1223.	5.4	31
21	Geometric numerical schemes for the KdV equation. <i>Computational Mathematics and Mathematical Physics</i> , 2013, 53, 221-236.	0.2	28
22	On certain properties of the compact Zakharov equation. <i>Journal of Fluid Mechanics</i> , 2014, 748, 692-711.	1.4	24
23	Large nearshore storm waves off the Irish coast. <i>Scientific Reports</i> , 2019, 9, 15406.	1.6	23
24	Geometric phases of water waves. <i>Europhysics Letters</i> , 2014, 107, 69001.	0.7	21
25	Fluorescence photon migration by the boundary element method. <i>Journal of Computational Physics</i> , 2005, 210, 109-132.	1.9	20
26	Revisiting the stability of pulsatile pipe flow. <i>European Journal of Mechanics, B/Fluids</i> , 2005, 24, 237-254.	1.2	19
27	Euler characteristics of oceanic sea states. <i>Mathematics and Computers in Simulation</i> , 2012, 82, 1102-1111.	2.4	19
28	Special solutions to a compact equation for deep-water gravity waves. <i>Journal of Fluid Mechanics</i> , 2012, 712, 646-660.	1.4	18
29	A family of narrow-band non-linear stochastic processes for the mechanics of sea waves. <i>European Journal of Mechanics, B/Fluids</i> , 2002, 21, 125-137.	1.2	16
30	Kinematics of fluid particles on the sea surface: Hamiltonian theory. <i>Journal of Fluid Mechanics</i> , 2016, 801, 260-288.	1.4	16
31	Expected Shape of Extreme Waves in Storm Seas. , 2007, , .		14
32	Wave Statistics and Spectra via a Variational Wave Acquisition Stereo System. , 2008, , .		13
33	Hamiltonian form and solitary waves of the spatial Dysthe equations. <i>JETP Letters</i> , 2012, 94, 840-844.	0.4	13
34	Symmetry reduction of turbulent pipe flows. <i>Journal of Fluid Mechanics</i> , 2015, 779, 390-410.	1.4	13
35	Interval-Based Approach for Uncertainty Propagation in Inverse Problems. <i>Journal of Engineering Mechanics - ASCE</i> , 2015, 141, .	1.6	13
36	Nonlinear Space-Time Evolution of Wave Groups With a High Crest. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2005, 127, 46-51.	0.6	12

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37	Extreme Events in Nonlinear Random Seas. Journal of Offshore Mechanics and Arctic Engineering, 2006, 128, 11-16.	0.6	12
38	Explaining extreme waves by a theory of stochastic wave groups. Computers and Structures, 2007, 85, 291-303.	2.4	12
39	Geometric Seismic-Wave Inversion by the Boundary Element Method. Bulletin of the Seismological Society of America, 2012, 102, 802-811.	1.1	12
40	Successive wave crests in Gaussian seas. Probabilistic Engineering Mechanics, 2005, 20, 355-363.	1.3	11
41	Solitary wave interaction in a compact equation for deep-water gravity waves. JETP Letters, 2012, 95, 622-625.	0.4	11
42	On wave groups in a Gaussian sea. Ocean Engineering, 2006, 33, 2225-2239.	1.9	8
43	Space-Time Waves and Spectra in the Northern Adriatic Sea via a Wave Acquisition Stereo System. , 2011, , .		8
44	Uncertainty Analysis of Static Plane Problems by Intervals. SAE International Journal of Materials and Manufacturing, 0, 8, 374-381.	0.3	7
45	Crest speeds of unsteady surface water waves. Journal of Fluid Mechanics, 2020, 899, .	1.4	7
46	The Equivalent Power Storm Model for Long-Term Predictions of Extreme Wave Events. , 2009, , .		6
47	Surface Waves in Laterally Heterogeneous Media. Journal of Engineering Mechanics - ASCE, 2013, 139, 1158-1165.	1.6	6
48	Variational Stereo Imaging of Oceanic Waves With Statistical Constraints. IEEE Transactions on Image Processing, 2013, 22, 4211-4223.	6.0	6
49	Are Rogue Waves Really Unexpected?. Journal of Physical Oceanography, 2016, 46, 1495-1508.	0.7	6
50	Travelling waves in axisymmetric pipe flows. Fluid Dynamics Research, 2012, 44, 045509.	0.6	5
51	On the persistence of breathers at deep water. JETP Letters, 2014, 98, 523-527.	0.4	5
52	Vortexons in axisymmetric Poiseuille pipe flows. Europhysics Letters, 2013, 101, 34003.	0.7	4
53	Interval Finite Element Analysis of Structural Dynamic Problems. SAE International Journal of Materials and Manufacturing, 0, 8, 382-389.	0.3	4
54	Some special solutions to the Hyperbolic NLS equation. Communications in Nonlinear Science and Numerical Simulation, 2018, 57, 202-220.	1.7	4

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55	Intensity and Duration of Sea Storms off the Californian Coast. , 2002, , 126.		3
56	Wave-Height Distributions and Nonlinear Effects. , 2006, , 1.		3
57	Envelope and Phase Statistics of Large Waves. , 2008, , .		3
58	Non-Linear Space-Time Evolution of Wave Groups With a High Crest. , 2003, , .		3
59	Two-Dimensional Seismic Wave Modeling and Inversion by the Boundary Element Method. , 2012, , .		2
60	Beyond Waves and Spectra: Euler Characteristics of Oceanic Sea States. , 2009, , .		2
61	Space-Time Extremes in Sea Storms. , 2011, , .		2
62	Weak Statistical Constraints for Variational Stereo Imaging of Oceanic Waves. Lecture Notes in Computer Science, 2012, , 520-531.	1.0	2
63	Multiphase groundwater flow and transport using a new localized collocation method (LOCOM). Developments in Water Science, 2002, , 241-248.	0.1	1
64	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
65	On the statistics of oceanic waves. International Journal of Reliability and Safety, 2009, 3, 258.	0.2	1
66	A Variational Wave Acquisition Stereo System for the 3-D Reconstruction of Oceanic Sea States. , 2011, , .		1
67	Interval-based Inverse Problems with Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1079-1084.	0.4	1
68	Camassa-Holm equations and vortexons for axisymmetric pipe flows. Fluid Dynamics Research, 2014, 46, 015503.	0.6	1
69	Adjoint Active Surfaces for Localization and Imaging. IEEE Transactions on Image Processing, 2015, 24, 316-331.	6.0	1
70	Rogue Waves in Oceanic Turbulence. , 2008, , .		1
71	Extreme Waves of Sea Storms. , 2010, , .		1
72	Defect Modes in One-dimensional Optically-induced Photonic Lattices. , 2005, , .		1

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73	Localized-adjoint-finite-element-method for sub-grid stabilization of convection-dominated transport on a triangular mesh. <i>Developments in Water Science</i> , 2002, , 389-396.	0.1	0
74	On the Linear Stability of Weakly Rarefied Flows in Microchannels. , 2005, , .		0
75	Camassa-Holm Type Equations for Axisymmetric Poiseuille Pipe Flows. <i>Procedia IUTAM</i> , 2013, 9, 16-24.	1.2	0
76	Two Variational Stereo Methods for Space-Time Measurements of Ocean Waves. , 2013, , .		0
77	Joint 4-D Variational Stereo Reconstruction and Camera Calibration Refinement for Oceanic Sea State Measurements. , 2014, , .		0
78	Interval Finite Element Approach for Modal Analysis of Linear Elastic Structures Under Uncertainty. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 143-150.	0.3	0
79	Structural dynamic problems in time domain under uncertainty: an interval finite element approach. <i>International Journal of Reliability and Safety</i> , 2018, 12, 122.	0.2	0
80	Boundary Element Solution of the Coupled Fluorescence Diffusion Equations. , 2004, , .		0
81	Observation of Defect Modes in Optically-induced Photonic Lattices. , 2005, , .		0
82	Extreme Waves and Stochastic Wave Groups. , 2006, , .		0
83	Transport, Growth, and Stability of Disturbances in Weakly Rarefied Channel Flows. <i>Journal of Computational and Theoretical Nanoscience</i> , 2006, 3, 497-505.	0.4	0
84	Nonlinear Wave Statistics. , 2010, , .		0
85	Improving 3-D Variational Stereo Reconstruction of Oceanic Sea States by Camera Calibration Refinement. , 2013, , .		0
86	On the Momentary Stability of the Laminar Boundary Layer Beneath a Stokes Wave. <i>Water Waves</i> , 0, , .	0.3	0