Spyros A Kinnas

List of Publications by Year
in descending order

55 papers	833 citations	516710 16 h-index	526287 27 g-index
55 all docs	55 docs citations	55 times ranked	272 citing authors

#	Article	IF	Citations
1	A numerical nonlinear analysis of the flow around two- and three-dimensional partially cavitating hydrofoils. Journal of Fluid Mechanics, 1993, 254, 151-181.	3.4	134
2	Boundary element method for the analysis of the unsteady flow aroundextreme propeller geometries. AIAA Journal, 1992, 30, 688-696.	2.6	70
3	A BEM for the Prediction of Unsteady Midchord Face and/or Back Propeller Cavitation. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 311-319.	1.5	51
4	A Boundary Element Method for the Analysis of the Flow Around 3-D Cavitating Hydrofoils. Journal of Ship Research, 1993, 37, 213-224.	1.1	50
5	Performance Prediction of Surface-Piercing Propellers. Journal of Ship Research, 2004, 48, 288-304.	1.1	32
6	Application of a Numerical Optimization Technique to the Design of Cavitating Propellers in Nonuniform Flow. Journal of Ship Research, 1997, 41, 93-107.	1.1	30
7	Numerical simulation of unsteady propeller/rudder interaction. International Journal of Naval Architecture and Ocean Engineering, 2017, 9, 677-692.	2.3	28
8	Numerical Modeling of Supercavitating Propeller Flows. Journal of Ship Research, 2003, 47, 48-62.	1.1	24
9	Numerical Analysis of 2-D and 3-D Cavitating Hydrofoils Under a Free Surface. Journal of Ship Research, 2001, 45, 34-49.	1.1	22
10	Modeling of Unsteady Sheet Cavitation on Marine Propeller Blades. International Journal of Rotating Machinery, 2003, 9, 263-277.	0.8	21
11	Application of a Boundary Element Method in the Prediction of Unsteady Blade Sheet and Developed Tip Vortex Cavitation on Marine Propellers. Journal of Ship Research, 2004, 48, 15-30.	1.1	21
12	Prediction of Non-Axisymmetric Effective Wake by a Three-Dimensional Euler Solver. Journal of Ship Research, 2001, 45, 13-33.	1.1	20
13	A Wake Model for the Prediction of Propeller Performance at Low Advance Ratios. International Journal of Rotating Machinery, 2012, 2012, 1-11.	0.8	19
14	Unsteady Wake Alignment for Propellers in Nonaxisymmetric Flows. Journal of Ship Research, 2005, 49, 176-190.	1.1	19
15	A numerical nonlinear analysis of two-dimensional ventilating entry of surface-piercing hydrofoils with effects of gravity. Journal of Fluid Mechanics, 2010, 658, 383-408.	3.4	17
16	Leading-Edge Corrections to the Linear Theory of Partially Cavitating Hydrofoils. Journal of Ship Research, 1991, 35, 15-27.	1.1	16
17	Experiment and Viscous Flow Analysis on a Partially Cavitating Hydrofoil. Journal of Ship Research, 1997, 41, 161-171.	1.1	16
18	A Panel Method with a Full Wake Alignment Model for the Prediction of the Performance of Ducted Propellers. Journal of Ship Research, 2015, 59, 246-257.	1.1	14

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19	A General Theory for the Coupling Between Thickness and Loading for Wings and Propellers. Journal of Ship Research, 1992, 36, 59-68.	1.1	14
20	Cavitating Propeller Analysis Including the Effects of Wake Alignment. Journal of Ship Research, 1999, 43, 38-47.	1.1	14
21	Prediction of Sheet Cavitation on a Rudder Subject to Propeller Flow. Journal of Ship Research, 2007, 51, 65-75.	1.1	14
22	Prediction of cavitating performance of a tip loaded propeller and its induced hull pressures. Ocean Engineering, 2021, 229, 108961.	4.3	11
23	A Numerical Optimization Technique Applied to the Design of Two-Dimensional Cavitating Hydrofoil Sections. Journal of Ship Research, 1996, 40, 28-38.	1.1	11
24	Propeller Wake Sheet Roll-up Modeling in Three Dimensions. Journal of Ship Research, 1997, 41, 81-92.	1.1	11
25	Prediction of Unsteady Effective Wake by a Euler Solver/Vortex-Lattice Coupled Method. Journal of Ship Research, 2003, 47, 131-144.	1.1	11
26	A conservative viscous vorticity method for unsteady unidirectional and oscillatory flow past a circular cylinder. Ocean Engineering, 2019, 191, 106504.	4.3	10
27	Prediction of Unsteady Developed Tip Vortex Cavitation and Its Effect on the Induced Hull Pressures. Journal of Marine Science and Engineering, 2020, 8, 114.	2.6	10
28	Numerical Water Tunnel in Two and Three Dimensions. Journal of Ship Research, 1998, 42, 86-98.	1.1	10
29	On the Accurate Calculation of Effective Wake/Application to Ducted Propellers. Journal of Ship Research, 2014, 58, 70-82.	1.1	9
30	The Generalized Image Modelâ€"An Application to the Design of Ducted Propellers. Journal of Ship Research, 1992, 36, 197-209.	1.1	9
31	The local error of a low-order boundary element method at the trailing edge of a hydrofoil and its effect on the global solution. Computers and Fluids, 1994, 23, 63-75.	2.5	8
32	Panel Method for Ducted Propellers with Sharp Trailing Edge Duct with Fully Aligned Wake on Blade and Duct. Journal of Marine Science and Engineering, 2018, 6, 89.	2.6	8
33	VIScous Vorticity Equation (VISVE) for Turbulent 2-D Flows with Variable Density and Viscosity. Journal of Marine Science and Engineering, 2020, 8, 191.	2.6	8
34	Local simulation of sloshing jet in a rolling tank by viscous-inviscid interaction method. Results in Engineering, 2021, 11, 100270.	5.1	8
35	Prediction of Propeller-Induced Hull Pressure Fluctuations via a Potential-Based Method: Study of the Effects of Different Wake Alignment Methods and of the Rudder. Journal of Marine Science and Engineering, 2018, 6, 52.	2.6	7
36	A flow separation model for hydrofoil, propeller and duct sections with blunt trailing edges. Journal of Fluid Mechanics, 2019, 861, 180-199.	3.4	6

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37	Flow past a rotating cylinder predicted by a compact Eulerian viscous vorticity method under non-inertial rotating frame. Ocean Engineering, 2021, 230, 108882.	4.3	6
38	A Generalized Potential/RANS Interactive Method for the Prediction of Propulsor Performance. Journal of Ship Research, 2017, 61, 214-229.	1.1	6
39	Parallel implementation of a VIScous Vorticity Equation (VISVE) method in 3-D laminar flow. Journal of Computational Physics, 2021, 426, 109912.	3.8	5
40	A panel method for the prediction of unsteady performance of ducted propellers in ship behind condition. Ocean Engineering, 2022, 246, 110582.	4.3	5
41	A BEM/RANS Interactive Method Applied to an Axial Tidal Turbine Farm. Journal of Ship Research, 2021, 65, 320-345.	1.1	4
42	Thruster and Hull Interaction. Journal of Offshore Mechanics and Arctic Engineering, 2015, 137, .	1.2	3
43	A 3D flow separation model for open propellers with blunt trailing edge. Ocean Engineering, 2021, 233, 109054.	4.3	3
44	Analysis of the Flow Around Supercavitating Hydrofoils with Midchord and Face Cavity Detachment. Journal of Ship Research, 1991, 35, 198-209.	1.1	3
45	Cavitating Propeller Experiment (CAPREX III): Measurement and Prediction of Tunnel Pressures. Journal of Ship Research, 1998, 42, 233-248.	1.1	3
46	On the Accurate Calculation of Effective Wake/Application to Ducted Propellers. Journal of Ship Research, 2014, 58, 70-82.	1.1	3
47	Particle Image Velocimetry Experiment and Computational Fluid Dynamics Simulation of Flow Around Rigid Cylinder. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	1.2	2
48	A Note on the Bernoulli Equation for Propeller Flows: The Effective Pressure. Journal of Ship Research, 2006, 50, 355-359.	1.1	2
49	A Panel Method with a Full Wake Alignment Model for the Prediction of the Performance of Ducted Propellers. Journal of Ship Research, 2015, 59, 246-257.	1.1	2
50	Modeling of Unsteady Sheet Cavitation on Marine Propeller Blades. International Journal of Rotating Machinery, 2003, 9, 263-277.	0.8	1
51	On Fully Aligned Lifting Line Model for Propellers: An Assessment of Betz condition. Journal of Ship Research, 2014, 58, 130-145.	1.1	1
52	VIScous Vorticity Equation (VISVE) model applied to 2-D turbulent flow over hydrofoils. Ocean Engineering, 2022, 256, 111416.	4.3	1
53	Inversion of the source and vorticity equations for supercavitating hydrofoils. Journal of Engineering Mathematics, 1992, 26, 349-361.	1.2	0
54	Foreword Special issue Dedicated to IABEM 2002. Computational Mechanics, 2003, 32, 225-225.	4.0	0

#	Article	IF	Citations
55	Dedication to Professor Justin Elliot Kerwin. Journal of Ship Research, 2015, 59, 189-189.	1.1	0