Alan Brown

List of Publications by Year
in descending order

19 papers	239 citations	1307594 7 h-index	996975 15 g-index
19 all docs	19 docs citations	19 times ranked	163 citing authors

#	Article	IF	Citations
1	Collision scenarios and probabilistic collision damage. Marine Structures, 2002, 15, 335-364.	3.8	74
2	Multiple‐Objective Optimization in Naval Ship Design. Naval Engineers Journal, 2003, 115, 49-62.	0.1	46
3	Risk Metric for Multi-Objective Design of Naval Ships. Naval Engineers Journal, 2004, 116, 55-72.	0.1	25
4	An architectural framework for distributed naval ship systems. Ocean Engineering, 2018, 147, 375-385.	4.3	25
5	Dynamics of Naval Ship Design: A Systems Approach. Naval Engineers Journal, 1999, 111, 307-323.	0.1	15
6	Revisiting DDGX/DDG-51 Concept Exploration. Naval Engineers Journal, 2007, 119, 67-88.	0.1	10
7	A Fundamentally-Based Stochastic Mixing Model Method for Predicting NO and Soot Emissions from Direct Injection Diesel Engines. Combustion Science and Technology, 1988, 58, 195-207.	2.3	8
8	Exploration of System Vulnerability in Naval Ship Concept Design. Journal of Ship Production and Design, 2018, 34, 42-58.	0.4	8
9	Reflection and transmission of plane waves at an interface between two fluids. Computers and Fluids, 2007, 36, 1298-1306.	2.5	7
10	Methods for Naval Ship Concept and Propulsion Technology Exploration in a CGX Case Study. Naval Engineers Journal, 2009, 120, 95-122.	0.1	4
11	Smart Ship System Design (S3D) integration with the leading edge architecture for Prototyping Systems (LEAPS). , 2017, , .		3
12	Application of the Spectral Element Method in a Surface Ship Far-Field UNDEX Problem. Shock and Vibration, 2019, 2019, 1-16.	0.6	3
13	Surrogate approaches to predict surface ship response to far-field underwater explosion in early-stage ship design. Ocean Engineering, 2021, 225, 108773.	4.3	3
14	Towards A Rational Intact Stability Criteria For Naval Ships. Naval Engineers Journal, 1998, 110, 65-77.	0.1	2
15	Graph theory applications in FOCUS-compliant ship designs. , 2017, , .		2
16	Early-Stage Naval Ship Distributed System Design Using Architecture Flow Optimization. Journal of Ship Production and Design, 2021, 37, 78-96.	0.4	2
17	A Framework of Runge–Kutta, Discontinuous Galerkin, Level Set and Direct Ghost Fluid Methods for the Multi-Dimensional Simulation of Underwater Explosions. Fluids, 2022, 7, 13.	1.7	2
18	Dynamics of Naval Ship Design: A Systems Approach. Naval Engineers Journal, 1999, 111, 127-129.	0.1	0

#	Article	IF	Citations
19	Coupling with the Embedded Boundary Method in a Runge-Kutta Discontinuous-Galerkin Direct Ghost-Fluid Method (RKDG-DGFM) Framework for Fluid-Structure Interaction Simulations of Underwater Explosions. Journal of Marine Science and Engineering, 2021, 9, 1375.	2.6	0