Bai-Qiao Chen

List of Publications by Citations

26 papers	277 citations	10 h-index	16 g-index
29 ext. papers	356 ext. citations	3.1 avg, IF	4.15 L-index

#	Paper	IF	Citations
26	Numerical and experimental studies on temperature and distortion patterns in butt-welded plates. *International Journal of Advanced Manufacturing Technology*, **2014**, 72, 1121-1131	3.2	47
25	MARSTRUCT benchmark study on nonlinear FE simulation of an experiment of an indenter impact with a ship side-shell structure. *Marine Structures*, **2018**, 59, 142-157	3.8	35
24	Effect of welding sequence on temperature distribution, distortions, and residual stress on stiffened plates. *International Journal of Advanced Manufacturing Technology*, **2016**, 86, 3145-3156	3.2	26
23	Effects of plate configurations on the weld induced deformations and strength of fillet-welded plates. *Marine Structures*, **2016**, 50, 243-259	3.8	24
22	Numerical and parametric modeling and analysis of weld-induced residual stresses. *International Journal of Mechanics and Materials in Design*, **2015**, 11, 439-453	2.5	18
21	Evaluation of multi-pass welding-induced residual stress using numerical and experimental approaches. *Ships and Offshore Structures*, **2018**, 13, 847-856	1.4	16
20	Numerical and experimental study on butt weld with dissimilar thickness of thin stainless steel plate. *International Journal of Advanced Manufacturing Technology*, **2015**, 78, 319-330	3.2	15
19	Validation of numerical simulations with X-ray diffraction measurements of residual stress in butt-welded steel plates. *Ships and Offshore Structures*, **2018**, 13, 273-282	1.4	14
18	Numerical and experimental investigation on the weld-induced deformation and residual stress in stiffened plates with brackets. *International Journal of Advanced Manufacturing Technology*, **2016**, 86, 2723-2733	3.2	12
17	Experimental and numerical investigation on the influence of stiffeners on the crushing resistance of web girders in ship grounding. *Marine Structures*, **2019**, 63, 351-363	3.8	11
16	Experimental and numerical investigation on welding simulation of long stiffened steel plate specimen. *Marine Structures*, **2021**, 75, 102824	3.8	10
15	A Simplified Model for the Effect of Weld-Induced Residual Stresses on the Axial Ultimate Strength of Stiffened Plates. *Journal of Marine Science and Application*, **2018**, 17, 57-67	1.2	9
14	Effect of non-symmetrical corrosion imperfection on the collapse pressure of subsea pipelines. *Marine Structures*, **2020**, 73, 102806	3.8	9
13	Design equation for the effect of ovality on the collapse strength of sandwich pipes. *Ocean Engineering*, **2021**, 235, 109367	3.9	7
12	Dynamic structural response of perforated plates subjected to water impact load. *Engineering Structures*, **2016**, 125, 179-190	4.7	6
11	Numerical Investigation on Weld-Induced Imperfections in Aluminum Ship Plates. *Journal of Offshore Mechanics and Arctic Engineering*, **2019**, 141,	1.5	4
10	Effect of Ovality Length on Collapse Strength of Imperfect Sandwich Pipes Due to Local Buckling. *Journal of Marine Science and Engineering*, **2022**, 10, 12	2.4	4

List of Publications

9	Deformation measurements in welded plates based on close-range photogrammetry. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2016**, 230, 662-674	2.4	3
8	The effect of general and localized corrosions on the collapse pressure of subsea pipelines. *Ocean Engineering*, **2022**, 247, 110719	3.9	3
7	Experimental numerical and analytical analysis of the penetration of a scaled double-hull tanker side structure. *Marine Structures*, **2021**, 78, 103018	3.8	1
6	Experimental and numerical investigation on the ultimate strength of a ship hull girder model with deck openings. *Marine Structures*, **2022**, 83, 103175	3.8	1
5	Experimental and numerical investigation on a double hull structure subject to collision. *Ocean Engineering*, **2022**, 256, 111437	3.9	1
4	Opportunities and Challenges to Develop Digital Twins for Subsea Pipelines. *Journal of Marine Science and Engineering*, **2022**, 10, 739	2.4	1
3	Analytical study on the upheaval thermal buckling of sandwich pipes. *Marine Structures*, **2022**, 85, 103245	3.8	0
2	Prediction of crack growth of an aged coast guard patrol ship based on various approaches **2017**, 379-386		
1	Numerical analysis of the effects of weld parameters on distortions and residual stresses in butt welded steel plates **2013**, 309-320		