Publications peer reviewed journals

Sl. No.	Title of the paper	Author's name as in the paper	Journal's name	Volume & Issue No.	Year	Start-End page
27	Water wave propagation in the presence of a U-shaped barrier	S. Singh, R. B. Kaligatla, B.N. Manda	Fluid Dynamics	Accepted	2026	
26	Wave interaction with an H-shaped submerged breakwater	R.B.Kaligatla, P. Panja, B.N. Mandal	The ANZIAM Journal	67 (e32)	2025	1-22
25	Wave scattering by ⊓-shaped breakwaters in finite depth water	S. Singh, R.B.Kaligatla, B.N. Mandal	Applied Ocean Research	148	2024	104014
24	Topographical effects on wave scattering by an elastic plate floating on two-layer fluid	R.B. Kaligatla, N.M. Prasad	Mathematical Modelling and Analysis	29(2)	2024	215–237
23	Wave scattering by Pi-type breakwater floating in deep water	R.B. Kaligatla, S. Singh, B.N. Mandal	Journal of Engineering Mathematics	143(7)	2023	1-18
22	Wave interaction with a rigid porous structure under the combined effect of refraction-diffraction	R.B. Kaligatla, S. Singh	Ocean Engineering	283	2023	115042
21	The combined refraction-diffraction effect on water wave scattering by a flexible-porous structure	S. Singh R.B. Kaligatla	Journal of Fluids and Structures	116	2023	103791
20	Surface gravity wave interaction with a partial porous breakwater in a two-layer	R.B. Kaligatla, S. Tabssum, T. Sahoo	Waves in Random and Complex Media	34(4)	2021	3381-3412

	ocean having bottom undulations					
19	Wave interaction with an array of porous walls in a two-layer ocean of varying bottom topography	N. Prasad R.B. Kaligatla, S. Tabssum	Meccanica	56	2021	1087-1108
18	Wave interaction with a pair of submerged floating tunnels in the presence of an array of submerged porous breakwaters	R.B. Kaligatla, Manisha Sharma, T. Sahoo	Journal of Offshore Mechanics and Arctic Engineering (ASME)	143(2)	2021	021402
17	Surface gravity wave interaction with a partial porous breakwater in the presence of bottom undulation	S. Tabssum R. B. Kaligatla T. Sahoo	Journal of Engineering Mechanics (ASCE)	146(9)	2020	04020088
16	Wave interaction with a submerged floating tunnel in the presence of a bottom mounted submerged porous breakwater	Manisha, R.B. Kaligatla T. Sahoo	Applied Ocean Research	96	2020	102069
15	Gravity wave interaction with a porous breakwater in a two-layer ocean of varying depth	S. Tabssum, R.B. Kaligatla, T. Sahoo	Ocean Engineering	196	2020	106816
14	Oblique interaction between water waves and a partially submerged rectangular breakwater.	R.B. Kaligatla, N. Prasad S. Tabssum	Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment (SAGE)	234(1)	2020	154–169

13	Effect of bottom undulation for mitigating wave-induced forces on a floating bridge.	Manisha, R.B. Kaligatla, T. Sahoo	Wave Motion	89	2019	166-184
12	Effect of bottom topography on wave scattering by multiple porous barriers	R.B. Kaligatla, S. Tabssum, T. Sahoo	Meccanica	53	2018	887-903
11	Wave trapping by dual porous barriers near a wall in the presence of bottom undulation.	R.B. Kaligatla, Manisha, T. Sahoo	Journal of Marine Science and Application	16	2017	286-297
10	Bragg resonance of membrane-coupled gravity waves over a porous bottom	R.B. Kaligatla, S. R. Manam	International Journal of Advances in Engineering Sciences and Applied Mathematics	8	2016	222-237
9	Wave trapping by porous barrier in the presence of step type bottom	H. Behera, R.B. Kaligatla, T. Sahoo	Wave Motion	57	2015	219-230
8	Trapping of surface gravity waves by a vertical flexible porous plate near a wall.	R.B. Kaligatla, S. Koley, T. Sahoo	Journal of Applied Mathematics and Physics	66	2015	2677-2702
7	Oblique wave scattering by a vertical flexible porous plate.	S. Koley, R.B. Kaligatla, T. Sahoo	Studies in Applied Mathematics	135 (1)	2015	1-34
6	Acoustic field in ducts with sinusoidal area variation	N.S. Vikramaditya, R.B. Kaligatla	Journal of Vibration and Acoustics	136(1)	2014	014502
5	Flexural gravity wave scattering by a nearly vertical porous wall	R. B. Kaligatla, S. R. Manam	Journal of Engineering Mathematics	88	2014	49-66

4	Membrane-coupled gravity wave scattering by a vertical barrier with a gap	S. R. Manam, R. B. Kaligatla	The ANZIAM Journal	55(3)	2014	267-288
3	Structure-coupled gravity waves past a vertical porous barrier	S. R. Manam, R. B. Kaligatla	Journal of Engineering for the Maritime Environment (SAGE)	227(3)	2013	266-283
2	A mild-slope model for membrane-coupled gravity waves	S. R. Manam, R. B. Kaligatla	Journal of Fluids and Structures (Elsevier Inc)	30	2012	173-187
1	Effect of a submerged vertical barrier on flexural gravity waves	S. R. Manam, R. B. Kaligatla	International Journal of Engineering Science (Elsevier Inc.)	49(8)	2011	755-767