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Publications peer reviewed journals

Sl. No.	Authors	Title of the paper	Journal's name	Vol., year of publication & Pages	SCI/S CIE Scopus/ ESCI and Quartile Index
28	P. Panja, R.B. Kaligatla*, B.N. Mandal	Surface wave scattering by a rectangular structure with two unequal thin plates	European Journal of Mechanics/ B Fluids	Accepted (2026)	SCIE, Q2
27	S. Singh, R.B. Kaligatla*, B.N. Mandal	Water wave propagation in the presence of a U-shaped barrier	Fluid Dynamics	61(40) 2026	SCIE, Q4
26	R.B.Kaligatla*, P. Panja, B.N. Mandal	Wave interaction with an H-shaped submerged breakwater	The ANZIAM Journal	67 e32 (2025): 1-22	SCIE, Q3
25	S. Singh, R.B.Kaligatla*, B.N. Mandal	Wave scattering by Π -shaped breakwaters in finite depth water	Applied Ocean Research	148 (2024): 104014	SCIE, Q1
24	R.B. Kaligatla*, N.M. Prasad	Topographical effects on wave scattering by an elastic plate floating on two-layer fluid	Mathematical Modelling and Analysis	29(2), (2024): 215-237	SCIE, Q1
23	R.B. Kaligatla*, S. Singh, B.N. Mandal	Wave scattering by Pi-type breakwater floating in deep water	Journal of Engineering Mathematics	143 (7) (2023): 1-18	SCIE, Q2
22	R.B. Kaligatla*, S. Singh	Wave interaction with a rigid porous structure under the combined effect of refraction-diffraction	Ocean Engineering	283 (2023): 115042	SCI, Q1

21	S. Singh R.B. Kaligatla*	The combined refraction-diffraction effect on water wave scattering by a flexible-porous structure	Journal of Fluids and Structures	116 (2023): 103791	SCIE, Q1
20	R.B. Kaligatla, S. Tabssum, T. Sahoo	Surface gravity wave interaction with a partial porous breakwater in a two-layer ocean having bottom undulations	Waves in Random and Complex Media	34(4) (2021): 3381-3412	SCIE, Q1
19	N.M. Prasad R.B. Kaligatla*, S. Tabssum	Wave interaction with an array of porous walls in a two-layer ocean of varying bottom topography	Meccanica	56 (2021): 1087-1108	SCI, Q3
18	R.B. Kaligatla, Manisha Sharma, T. Sahoo	Wave interaction with a pair of submerged floating tunnels in the presence of an array of submerged porous breakwaters	Journal of Offshore Mechanics and Arctic Engineering	143(2) (2021): 021402	SCI, Q3
17	S. Tabssum R. B. Kaligatla* T. Sahoo	Surface gravity wave interaction with a partial porous breakwater in the presence of bottom undulation	Journal of Engineering Mechanics	146(9) (2020): 04020088	SCIE, Q2
16	Manisha, R.B. Kaligatla* T. Sahoo	Wave interaction with a submerged floating tunnel in the presence of a bottom mounted submerged porous breakwater	Applied Ocean Research	96 (2020): 102069	SCIE, Q1
15	S. Tabssum, R.B. Kaligatla*, T. Sahoo	Gravity wave interaction with a porous breakwater in a two-layer ocean of varying depth	Ocean Engineering	196 (2020): 106816 (1-15)	SCI, Q1
14	R.B. Kaligatla*, N.M. Prasad S. Tabssum	Oblique interaction between water waves and a partially submerged rectangular breakwater.	Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment	234(1) (2020): 1-16	SCIE, Q2

13	Manisha, R.B. Kaligatla*, T. Sahoo	Effect of bottom undulation for mitigating wave-induced forces on a floating bridge.	Wave Motion	89 (2019): 166-184	SCI, Q2
12	R.B. Kaligatla*, S. Tabssum, T. Sahoo	Effect of bottom topography on wave scattering by multiple porous barriers	Meccanica	53 (2018): 887-903	SCI, Q2
11	R.B. Kaligatla*, Manisha, T. Sahoo	Wave trapping by dual porous barriers near a wall in the presence of bottom undulation.	Journal of Marine Science and Application	16 (2017): 286-297	Scopus Q3
10	R.B. Kaligatla, S. R. Manam	Bragg resonance of membrane-coupled gravity waves over a porous bottom	International Journal of Advances in Engineering Sciences and Applied Mathematics	8(3) (2016): 222-237	ESCI Q3
9	H. Behera, R.B. Kaligatla, T. Sahoo	Wave trapping by porous barrier in the presence of step type bottom	Wave Motion	57 (2015): 219-230	SCI, Q2
8	R.B. Kaligatla, S. Koley, T. Sahoo	Trapping of surface gravity waves by a vertical flexible porous plate near a wall.	Journal of Applied Mathematics and Physics	66 (2015): 2677-2702	SCI, Q1
7	S. Koley, R.B. Kaligatla, T. Sahoo	Oblique wave scattering by a vertical flexible porous plate.	Studies in Applied Mathematics	135(1) (2015): 1-34	SCI, Q1
6	N.S. Vikramaditya, R.B. Kaligatla	Acoustic field in ducts with sinusoidal area variation	Journal of Vibration and Acoustics	136 (2014): 014502	SCIE, Q2
5	R. B. Kaligatla, S. R. Manam	Flexural gravity wave scattering by a nearly vertical porous wall	Journal of Engineering Mathematics	88 (2014): 49-66	SCI, Q3
4	S. R. Manam, R. B. Kaligatla	Membrane-coupled gravity wave scattering by a vertical barrier with a gap	The ANZIAM Journal	55(3) (2014): 267-288	SCIE, Q2
3	S. R. Manam, R. B. Kaligatla	Structure-coupled gravity waves past a vertical porous barrier	Journal of Engineering for the Maritime Environment	227(3) (2013): 266-283	SCIE, Q3

2	S. R. Manam, R. B. Kaligatla	A mild-slope model for membrane-coupled gravity waves	Journal of Fluids and Structures	30 (2012): 173-187	SCI, Q1
1	S. R. Manam, R. B. Kaligatla	Effect of a submerged vertical barrier on flexural gravity waves	International Journal of Engineering Science	49(8) (2011): 755-767	SCI, Q1