Name: Ramanababu Kaligatla
Associate Professor
Dept. of Mathematics and Computing
IIT (ISM) Dhanbad

Research publications in peer reviewed journals.

Sl. No.	Authors	Title of the paper	Journal's name	Vol., year of publication & Pages	SCI/SCIE Scopus/ ESCI and Quartile Index
25	S. Singh, R.B. Kaligatla, B. N. Mandal	Wave scattering by ⊓-shaped breakwaters in finite depth water	Applied Ocean Research	**148** (2024) 104014	SCIE, Q1
24	R.B. Kaligatla*, S. Singh, B.N. Mandal	Wave scattering by Pi-type breakwater floating in deep water	Journal of Engineering Mathematics (Springer)	**143,** 1-18 (2023)	SCIE, Q2
23	R.B. Kaligatla*, N.M. Prasad	Topographical effects on wave scattering by an elastic plate floating on two-layer fluid	Mathematical Modelling and Analysis (Vilnius Tech.)	2023, Accepted	SCIE, Q1
22	R.B. Kaligatla*, S. Singh	Wave interaction with a rigid porous structure under the combined effect of refraction-diffraction	Ocean Engineering (Elsevier)	**283,** 115042 (2023)	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 (Elsevier)	**116**, 103791 (2023)	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 (Taylor & Francis online)	(2021) DOI: 10.1080/17455030.2021.1976878	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 (Springer)	**56**, 1087–1108 (2021)	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 (ASME)	**143(2)**, 021402 (2021)	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 (ASCE)	**146(9),** 04020088 (2020)	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 (Elsevier)	**96**, 102069, (2020)	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 (Elsevier)	**196**, 106816 (1-15), (2020)	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 (SAGE)	1-16 (2020)	SCIE, Q2
13	Manisha, R.B. Kaligatla*, T. Sahoo	Effect of bottom undulation for mitigating wave-induced forces on a floating bridge.	Wave Motion (Elsevier)	**89,** 166-184 (2019)	SCI, Q2
12	R.B. Kaligatla*, S. Tabssum, T. Sahoo	Effect of bottom topography on wave scattering by multiple porous barriers	Meccanica (Springer)	**53**, 887-903 (2018)	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 (Springer)	**16**, 286-297 (2017)	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 (Springer)	**8(3),** 222-237 (2016)	ESCI Q3

9	H. Behera, R.B. Kaligatla, T. Sahoo	Wave trapping by porous barrier in the presence of step type bottom	Wave Motion (Elsevier)	**57**, 219-230 (2015)	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 (Springer)	**66**, 2677-2702 (2015)	SCI, Q1
7	S. Koley, R.B. Kaligatla, T. Sahoo	Oblique wave scattering by a vertical flexible porous plate.	Studies in Applied Mathematics (Wiley)	**135 (1),** 1-34 (2015)	SCI, Q1
6	N.S. Vikramaditya, R.B. Kaligatla	Acoustic field in ducts with sinusoidal area variation	Journal of Vibration and Acoustics (ASME)	**136,** 014502, (2014)	SCIE, Q2
5	R. B. Kaligatla, S. R. Manam	Flexural gravity wave scattering by a nearly vertical porous wall	Journal of Engineering Mathematics (Springer)	**88**, 49-66 (2014)	SCI, Q3
4	S. R. Manam, R. B. Kaligatla	Membrane-coupled gravity wave scattering by a vertical barrier with a gap	The ANZIAM Journal (Cambridge Univ. Press)	**55**, 267-288 (2014)	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 (SAGE)	**227(3),** 266-283 (2013)	SCIE, Q3
2	S. R. Manam, R. B. Kaligatla	A mild-slope model for membrane-coupled gravity waves	Journal of Fluids and Structures (Elsevier)	**30**, 173-187 (2012)	SCI, Q1
1	S. R. Manam, R. B. Kaligatla	Effect of a submerged vertical barrier on flexural gravity waves	International Journal of Engineering Science (Elsevier)	**49**, 755-767 (2011)	SCI, Q1
*Corresponding author					

Modified date: 3rd Feb 2025