Soumen De

List of Publications by Year
in descending order

66 papers	482 citations	933447 10 h-index	996975 15 g-index
68 all docs	68 docs citations	68 times ranked	156 citing authors

#	Article	IF	Citations
1	Waves in nonlocal thermoelastic solids of type II. Journal of Thermal Stresses, 2019, 42, 1153-1170.	2.0	31
2	Use of Abel integral equations in water wave scattering by two surface-piercing barriers. Wave Motion, 2010, 47, 279-288.	2.0	25
3	Reflection of plane waves in generalized thermoelasticity of type III with nonlocal effect. Mathematical Methods in the Applied Sciences, 2020, 43, 1313-1336.	2.3	25
4	Investigation of Nanoparticle as a Drug Carrier Suspended in a Blood Flowing Through an Inclined Multiple Stenosed Artery. BioNanoScience, 2018, 8, 166-178.	3.5	20
5	Analytical Investigation of Nanoparticle as a Drug Carrier Suspended in a MHD Blood Flowing Through an Irregular Shape Stenosed Artery. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 1259-1272.	1.5	18
6	Water-wave scattering by two submerged plane vertical barriersâ€"Abel integral-equation approach. Journal of Engineering Mathematics, 2009, 65, 75-87.	1.2	17
7	Analytical Solution of Mathematical Model of Magnetohydrodynamic Blood Nanofluid Flowing Through an Inclined Multiple Stenosed Artery. Journal of Nanofluids, 2017, 6, 1198-1205.	2.7	17
8	Effect of Porosity on Oblique Wave Diffraction by Two Unequal Vertical Porous Barriers. Journal of Marine Science and Application, 2019, 18, 417-432.	1.7	14
9	Analysis of non-linear pulsatile blood flow in artery through a generalized multiple stenosis. Arabian Journal of Mathematics, 2016, 5, 51-61.	0.9	13
10	Water wave scattering by multiple thin vertical barriers. Applied Mathematics and Computation, 2019, 355, 458-481.	2.2	13
11	Propagation of oblique water waves by an asymmetric trench in the presence of surface tension. Journal of Ocean Engineering and Science, 2021, 6, 206-214.	4.3	13
12	Modified Greenâ€"Lindsay model on the reflection and propagation of thermoelastic plane waves at an isothermal stress-free surface. Indian Journal of Physics, 2020, 94, 1215-1225.	1.8	12
13	Oblique wave scattering by two thin non-uniform permeable vertical walls with unequal apertures in water of uniform finite depth. Waves in Random and Complex Media, 2021, 31, 2021-2039.	2.7	12
14	Effects of vertical porous barrier on progressive waves in a two layered fluid. Ocean Engineering, 2018, 156, 153-166.	4.3	10
15	Memory response in plane wave reflection in generalized magneto-thermoelasticity. Journal of Electromagnetic Waves and Applications, 2019, 33, 1354-1374.	1.6	9
16	Waves in magneto-thermoelastic solids under modified Greenâ€"Lindsay model. Journal of Thermal Stresses, 2020, 43, 594-611.	2.0	9
17	Effects of flexible bed on oblique wave interaction with multiple surface-piercing porous barriers. Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1.	1.4	9
18	Mitigation of wave force and dissipation of energy by multiple arbitrary porous barriers. Waves in Random and Complex Media, 0, , 1-24.	2.7	9

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19	Combined impact of Brownian motion and thermophoresis on nanoparticle distribution in peristaltic nanofluid flow in an asymmetric channel. International Journal of Ambient Energy, 2022, 43, 5064-5075.	2.5	9
20	Reflection of Thermoelastic Waves From the Insulated Surface of a Solid Half-Space With Time-Delay. Journal of Heat Transfer, 2020, 142, .	2.1	9
21	Oblique scattering by thin vertical barriers in deep water : solution by multi-term Galerkin technique using simple polynomials as basis. Journal of Marine Science and Technology, 2018, 23, 915-925.	2.9	8
22	Water wave scattering by two surface-piercing and one submerged thin vertical barriers. Archive of Applied Mechanics, 2018, 88, 1477-1489.	2.2	8
23	Interaction of oblique waves with an ice sheet over an asymmetric trench. Ocean Engineering, 2019, 193, 106613.	4.3	8
24	Transport of Spherical Nanoparticles Suspended in a Blood Flowing Through Stenose Artery Under the Influence of Brownian Motion. Journal of Nanofluids, 2017, 6, 87-96.	2.7	8
25	Plane waves in nonlocal generalized thermoelasticity. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, .	1.6	8
26	Prediction of the stability number of conventional rubble-mound breakwaters using machine learning algorithms. Journal of Ocean Engineering and Science, 2022, , .	4.3	8
27	Surface wave propagation over small undulations at the bottom of an ocean with surface discontinuity. Geophysical and Astrophysical Fluid Dynamics, 2009, 103, 19-30.	1.2	7
28	Oblique water wave diffraction by two vertical porous barriers with nonidentical submerged gaps. Meccanica, 2019, 54, 1525-1544.	2.0	7
29	Study of nanoparticle as a drug carrier through stenosed arteries using Bernstein polynomials. International Journal for Computational Methods in Engineering Science and Mechanics, 2020, 21, 243-251.	2.1	7
30	Energy dissipation and oblique wave diffraction by three asymmetrically arranged porous barriers. Ships and Offshore Structures, 2022, 17, 105-115.	1.9	7
31	A smart model for prediction of viscosity of nanofluids using deep learning. Smart Science, 2020, 8, 242-256.	3.2	7
32	Physics-based smart model for prediction of viscosity of nanofluids containing nanoparticles using deep learning. Journal of Computational Design and Engineering, 2021, 8, 600-614.	3.1	7
33	Waves in nonlocal thermoelastic solids of type III. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900074.	1.6	6
34	Radiation of waves by a thin cap submerged in ice-covered ocean. Quarterly Journal of Mechanics and Applied Mathematics, 2021, 73, 261-278.	1.3	6
35	Reflection of thermoelastic waves from the isothermal boundary of a solid half-space under memory-dependent heat transfer. Waves in Random and Complex Media, 2021, 31, 731-748.	2.7	6
36	Water wave propagation over multiple porous barriers with variable porosity in the presence of an ice cover. Meccanica, 2021, 56, 1771-1788.	2.0	5

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37	Wave propagation over a rectangular trench in the presence of a partially immersed barrier. Fluid Dynamics Research, 2021, 53, 035509.	1.3	5
38	Analysis of oblique wave diffraction by rectangular thick barrier in the presence of surface tension. Indian Journal of Physics, 0, , 1.	1.8	5
39	Wave interaction with a rectangular bar in the presence of two trenches. Applied Ocean Research, 2022, 124, 103206.	4.1	5
40	Wave scattering by porous bottom undulation in a two layered channel. Journal of Marine Science and Application, 2014, 13, 355-361.	1.7	4
41	Wave scattering by uneven porous bottom in a three layered channel. Journal of Marine Science and Technology, 2017, 22, 533-545.	2.9	4
42	Wave attenuation by multiple thin vertical porous walls in water of uniform finite depth. Ocean Engineering, 2020, 216, 108072.	4.3	4
43	Oblique water waves scattering by a thick barrier with rectangular cross section in deep water. Journal of Engineering Mathematics, 2020, 122, 81-99.	1.2	4
44	Water wave propagation over an infinite step in the presence of a thin vertical barrier. Journal of Engineering Mathematics, 2021, 127, 1.	1.2	4
45	Oblique wave interaction by two thin vertical barriers over an asymmetric trench. Mathematical Methods in the Applied Sciences, 2022, 45, 11667-11682.	2.3	4
46	Water wave scattering by two partially immersed nearly vertical barriers. Wave Motion, 2005, 43, 167-175.	2.0	3
47	Small amplitude water wave propagation through mangrove forests having thin viscoelastic mud layer. Waves in Random and Complex Media, 2020, , 1-18.	2.7	3
48	Reflection of thermoelastic plane waves at a stress-free insulated solid boundary with memory-dependent derivative. Indian Journal of Physics, 2021, 95, 1203-1211.	1.8	3
49	Radiation of waves by a submerged nearly circular rough plate in iceâ€covered ocean. Studies in Applied Mathematics, 2021, 147, 935-954.	2.4	3
50	Radiation of water waves by a heaving submerged disc in a three-layer fluid. Journal of Fluids and Structures, 2022, 111, 103575.	3.4	3
51	Numerical Simulation of Nonlinear Pulsatile Newtonian Blood Flow through a Multiple Stenosed Artery. International Scholarly Research Notices, 2015, 2015, 1-10.	0.9	2
52	Interaction of flexural gravity wave in ice cover with a pair of bottom-mounted rectangular barriers. Ocean Engineering, 2021, 220, 108449.	4.3	2
53	Wave propagation through a gap in a thin vertical wall indeep wÃ¡ter. Cubo, 2019, 21, 93-105.	0.5	2
54	Analytical Investigation of Non-Spherical Nanoparticle as a Drug Agent Suspended in a Magnetohydrodynamic Blood Nanofluid Flowing Through an Irregular Shape Stenosed Artery. Journal of Nanofluids, 2018, 7, 1187-1194.	2.7	2

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55	Water wave propagation over an infinite trench. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1.	1.4	2
56	Radiation and scattering of flexural-gravity waves by a submerged porous disc. Meccanica, 0, , 1.	2.0	2
57	Generation of waves by moving oscillatory pressure disturbances in presence of porous bottom. Archive of Applied Mechanics, 2022, 92, 2713-2731.	2.2	2
58	Water wave scattering by two submerged nearly vertical barriers. ANZIAM Journal, 2006, 48, 107-117.	0.2	1
59	Oblique Wave Scattering by a Symmetric Trench Submerged Beneath an Ice Cover. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, 04019030.	1.2	1
60	Water Wave Scattering by a Bottom-Standing Thick Rectangular Barrier in the Presence of an Ice Cover. Journal of Applied Mechanics and Technical Physics, 2020, 61, 400-408.	0.5	1
61	Wave interaction with a pair of thick barriers over a pair of trenches. Ships and Offshore Structures, 2022, 17, 2031-2044.	1.9	1
62	Wave scattering by a submerged plate in a two-layer fluid of finite depth. AIP Conference Proceedings, 2018, , .	0.4	0
63	Use of Galerkin Technique in Some Water Wave Scattering Problems Involving Plane Vertical Barriers. Studies in Systems, Decision and Control, 2020, , 405-432.	1.0	0
64	USE OF GALERKIN TECHNIQUE TO THE ROLLING OF A PLATE IN DEEP WATER. Mathematical Modelling and Analysis, 2021, 26, 209-222.	1.5	0
65	Scattering of Water Wave by Undulating Porous Bed Topography in an Ice-Covered Ocean. Springer Proceedings in Mathematics and Statistics, 2015, , 257-269.	0.2	0
66	Effects of bottom permeability on wave generation by a moving oscillatory disturbance in magneto-hydrodynamics. Waves in Random and Complex Media, 0, , 1-27.	2.7	0