

# Arpan Gupta

## List of Publications by Year in descending order

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39  
papers

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citations

933447

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839539

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g-index

43  
all docs

43  
docs citations

43  
times ranked

296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of engine performance and emissions for hydrogen diesel dual fuel engine with exhaust gas recirculation. International Journal of Hydrogen Energy, 2019, 44, 12163-12175.	7.1	78
2	Combustion, vibration and noise analysis of hydrogen-diesel dual fuelled engine. Fuel, 2019, 241, 488-494.	6.4	63
3	A review on sonic crystal, its applications and numerical analysis techniques. Acoustical Physics, 2014, 60, 223-234.	1.0	36
4	Hydrogen-diesel co-combustion characteristics, vibro-acoustics and unregulated emissions in EGR assisted dual fuel engine. Fuel, 2022, 307, 121925.	6.4	28
5	Sound attenuation in triple panel using locally resonant sonic crystal and porous material. Applied Acoustics, 2019, 156, 113-119.	3.3	23
6	Enhancing the sound transmission loss through acoustic double panel using sonic crystal and porous material. Journal of the Acoustical Society of America, 2018, 144, 1435-1442.	1.1	15
7	Design of radial sonic crystal for sound attenuation from divergent sound source. Wave Motion, 2015, 55, 1-9.	2.0	14
8	Design, Manufacturing, and Acoustical Analysis of a Helmholtz Resonator-Based Metamaterial Plate. Acoustics, 2021, 3, 630-641.	1.4	14
9	A quasi two-dimensional model for sound attenuation by the sonic crystals. Journal of the Acoustical Society of America, 2012, 132, 2909-2914.	1.1	12
10	Experimental and numerical comparisons between finite element method, element-free Galerkin method, and extended finite element method predicted stress intensity factor and energy release rate of cortical bone considering anisotropic bone modelling. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 823-838.	1.8	12
11	Exhaust Heat Recovery Using Thermoelectric Generators: A Review. Energy, Environment, and Sustainability, 2018, , 193-206.	1.0	10
12	Finite Element Simulation of Impact on Metal Plate. Procedia Engineering, 2017, 173, 259-263.	1.2	9
13	Parametric Study on Rectangular Sonic Crystal. Applied Mechanics and Materials, 2012, 152-154, 281-286.	0.2	6
14	Utilization of wind energy from railways using vertical axis wind turbine. , 2015, , .		6
15	Sound propagation in two-dimensional waveguide with circular wavefront. Acoustical Physics, 2013, 59, 493-497.	1.0	5
16	Walking based wearable mobile phone charger and lightening system. , 2014, , .		5
17	Mechanical response of femur bone to bending load using finite element method. , 2014, , .		5
18	Fracture Mechanism and Fracture Toughness at the Interface Between Cortical and Cancellous Bone. Journal of Biomechanical Engineering, 2019, 141, .	1.3	5

#	ARTICLE	IF	CITATIONS
19	Effect of geometric parameters on the acoustical performance of single inlet single outlet expansion chamber muffler. , 2016, , .		4
20	Finite Element Simulation of Impact on PASGT Army Helmet. Procedia Engineering, 2017, 173, 251-258.	1.2	4
21	Increasing low frequency sound attenuation using compounded single layer of sonic crystal. AIP Conference Proceedings, 2018, , .	0.4	4
22	Maximization of Acoustic Levitating Force for a Single-Axis Acoustic Levitation System Using the Finite Element Method. Chinese Physics Letters, 2019, 36, 034302.	3.3	3
23	Biomedical Image Processing for Human Elbow. , 2014, , .		2
24	Development of a multi-component CAD model of human elbow structure. , 2014, , .		2
25	Finite difference solution to stochastic partial differential equations in reliability. International Journal of Industrial and Systems Engineering, 2018, 28, 166.	0.2	2
26	Experimental study on the insertion loss of multilayer panels featuring a periodic structure. Building Acoustics, 0, , 1351010X2110015.	1.9	2
27	Computational study of seismic wave propagation through metamaterial foundation. International Journal for Computational Methods in Engineering Science and Mechanics, 2021, 22, 200-207.	2.1	2
28	Multi-directional Sound Reduction by Slitted Sonic Crystal. Lecture Notes in Mechanical Engineering, 2020, , 1099-1108.	0.4	2
29	Levitating Force and Stability Analysis of Near-field Acoustic Levitation using Flexural Vibrations of the Plate. Acoustical Physics, 2021, 67, 120-127.	1.0	2
30	Numerical solution to stochastic partial differential equation with variable repair rate. Communications in Statistics - Theory and Methods, 2016, 45, 6245-6252.	1.0	1
31	Reverberation time improvement of lecture auditorium: A case study. Noise and Vibration Worldwide, 2018, 49, 14-19.	1.0	1
32	Low- $\hat{\epsilon}$ Cost Portable Smart Ventilator. Lecture Notes in Mechanical Engineering, 2022, , 599-606.	0.4	1
33	Computer Aided Modeling and Finite Element Analysis of Human Elbow. , 2017, , 1044-1052.		1
34	Straight line generation by a serial two-link manipulator: Design and analysis. , 2017, , .		0
35	TEST METHOD TO DETERMINE THE ACOUSTIC PROPERTIES OF BUILDING MATERIAL BY USING MICROPHONE IMPEDANCE TUBE. Akustika, 2021, , 36-42.	0.1	0
36	Band gap analysis of a three-mass locally resonant structure. Noise and Vibration Worldwide, 2021, 52, 222-229.	1.0	0

#	ARTICLE	IF	CITATIONS
37	A Mechanical Contrivance for Acoustic Levitation and Mixing of Particles. Lecture Notes in Mechanical Engineering, 2022, , 1-8.	0.4	0
38	Low-Frequency Noise Control in Ducts. Lecture Notes in Mechanical Engineering, 2022, , 527-535.	0.4	0
39	Automotive Exhaust Thermoelectric Generator Unit Integrated to Exhaust Noise Muffler: Heat Recovery and Noise Attenuation Simulations. Energy, Environment, and Sustainability, 2022, , 323-340.	1.0	0