

Sanjay Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

717
citations

567247

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h-index

552766

26
g-index

33
all docs

33
docs citations

33
times ranked

699
citing authors

#	ARTICLE	IF	CITATIONS
1	Labyrinthine acoustic metastructures enabling broadband sound absorption and ventilation. Applied Physics Letters, 2020, 116, .	3.3	91
2	Ventilated acoustic metamaterial window panels for simultaneous noise shielding and air circulation. Applied Acoustics, 2020, 159, 107088.	3.3	64
3	The Present and Future Role of Acoustic Metamaterials for Architectural and Urban Noise Mitigations. Acoustics, 2019, 1, 590-607.	1.4	50
4	Development of a paper-based analytical device for colorimetric detection of uric acid using gold nanoparticlesâ€“graphene oxide (AuNPsâ€“GO) conjugates. Analytical Methods, 2016, 8, 6965-6973.	2.7	48
5	Tapered lateral flow immunoassay based point-of-care diagnostic device for ultrasensitive colorimetric detection of dengue NS1. Biomicrofluidics, 2018, 12, 034104.	2.4	47
6	Facile synthesis of Au@Agâ€“hemin decorated reduced graphene oxide sheets: a novel peroxidase mimetic for ultrasensitive colorimetric detection of hydrogen peroxide and glucose. RSC Advances, 2017, 7, 37568-37577.	3.6	45
7	The perspective of fluid flow behavior of respiratory droplets and aerosols through the facemasks in context of SARS-CoV-2. Physics of Fluids, 2020, 32, 111301.	4.0	42
8	Fabrication of Nanostructures with Bottom-up Approach and Their Utility in Diagnostics, Therapeutics, and Others. Energy, Environment, and Sustainability, 2018, , 167-198.	1.0	39
9	Additive manufacturing as an emerging technology for fabrication of microelectromechanical systems (MEMS). Journal of Micromanufacturing, 2019, 2, 175-197.	1.1	37
10	Double negative acoustic metastructure for attenuation of acoustic emissions. Applied Physics Letters, 2018, 112, .	3.3	36
11	Recent Advances in Acoustic Metamaterials for Simultaneous Sound Attenuation and Air Ventilation Performances. Crystals, 2020, 10, 686.	2.2	34
12	Computer-aided genetic algorithm based multi-objective optimization of laser trepan drilling. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1119-1125.	2.2	33
13	Recent Advances in Active Acoustic Metamaterials. International Journal of Applied Mechanics, 2019, 11, 1950081.	2.2	29
14	Noise assessment of elevated rapid transit railway lines and acoustic performance comparison of different noise barriers for mitigation of elevated railway tracks noise. Applied Acoustics, 2021, 183, 108340.	3.3	18
15	Thermal tuning of negative effective mass density in a two-dimensional acoustic metamaterial with hexagonal lattice. Journal of Applied Physics, 2019, 126, .	2.5	17
16	Investigation of structureâ€“mechanical property relationship in fused filament fabrication of the polymer composites. Journal of Micromanufacturing, 2019, 2, 167-174.	1.1	14
17	Ashok chakra-structured meta-structure as a perfect sound absorber for broadband low-frequency sound. Applied Physics Letters, 2020, 117, 191901.	3.3	9
18	Perspectives on the Sonic Environment and Noise Mitigations during the COVID-19 Pandemic Era. Acoustics, 2021, 3, 493-506.	1.4	8

#	ARTICLE	IF	CITATIONS
19	Fluid Transport Mechanisms in Paper-Based Microfluidic Devices. <i>Advanced Functional Materials and Sensors</i> , 2019, , 7-28.	1.2	7
20	Assessment of in-cabin noise of wide-body aircrafts. <i>Applied Acoustics</i> , 2022, 194, 108809.	3.3	6
21	Positively Charged Silver Nanoparticles as Labels for Paper-Based Colorimetric Detection of Heparin. <i>IFMBE Proceedings</i> , 2018, , 235-240.	0.3	5
22	Diagnosis of communicable diseases using papepr microfluidic platforms. , 0, , 29-57.		5
23	Proof-of-Concept Design for MPP Acoustic Absorbers with Elements of Art. <i>Designs</i> , 2021, 5, 72.	2.4	4
24	Acoustical performance of ventilated aluminum T-slot columns-based sonic cage. <i>Applied Acoustics</i> , 2022, 193, 108779.	3.3	4
25	Acoustic performance of sonic metacage consisting of Helmholtzâ€™s resonator columns with internal partitions. <i>Applied Acoustics</i> , 2022, 196, 108887.	3.3	4
26	Characteristics of aircraft flypast noise around Singapore Changi international airport. <i>Applied Acoustics</i> , 2022, 185, 108418.	3.3	3
27	Psychoacoustic Analysis of Vacuum Cleaner Noise. <i>Acoustics</i> , 2021, 3, 545-559.	1.4	2
28	A Historical Perspective on Paper Microfluidic Based Point-of-Care Diagnostics. <i>Advanced Functional Materials and Sensors</i> , 2019, , 1-5.	1.2	2
29	Mitigating the toilet flush noise: A psychometric analysis of noise assessment and design of labyrinthine acoustic Meta-absorber for noise mitigation. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 3747-3762.	1.1	1
30	Comparison of Cabin Noise of Airport Express Rail Systems. <i>Acoustics</i> , 2022, 4, 1-13.	1.4	1