

Abdulrazak J Otaru

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3859643/publications.pdf>

Version: 2024-02-01

17
papers

225
citations

1040056

9
h-index

996975

15
g-index

17
all docs

17
docs citations

17
times ranked

116
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement and simulation of pressure drop across replicated porous aluminium in the Darcy-Forchheimer regime. <i>Acta Materialia</i> , 2018, 149, 265-273.	7.9	34
2	Enhancing the sound absorption performance of porous metals using tomography images. <i>Applied Acoustics</i> , 2019, 143, 183-189.	3.3	34
3	The permeability of virtual macroporous structures generated by sphere packing models: Comparison with analytical models. <i>Scripta Materialia</i> , 2016, 124, 30-33.	5.2	27
4	Modelling and optimisation of sound absorption in replicated microcellular metals. <i>Scripta Materialia</i> , 2018, 150, 152-155.	5.2	25
5	Review on the Acoustical Properties and Characterisation Methods of Sound Absorbing Porous Structures: A Focus on Microcellular Structures Made by a Replication Casting Method. <i>Metals and Materials International</i> , 2020, 26, 915-932.	3.4	25
6	Airflow measurement across negatively infiltration processed porous aluminum structures. <i>AICHE Journal</i> , 2019, 65, 1355-1364.	3.6	17
7	Numerical modelling of the sound absorption spectra for bottleneck dominated porous metallic structures. <i>Applied Acoustics</i> , 2019, 151, 164-171.	3.3	15
8	Investigation of the Pressure Drop Across Packed Beds of Spherical Beads: Comparison of Empirical Models With Pore-Level Computational Fluid Dynamics Simulations. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	1.5	13
9	Review on Processing and Fluid Transport in Porous Metals with a Focus on Bottleneck Structures. <i>Metals and Materials International</i> , 2020, 26, 510-525.	3.4	10
10	The impact of microcellular structures on the sound absorption spectra for automotive exhaust performance mufflers. <i>Applied Acoustics</i> , 2022, 187, 108508.	3.3	5
11	The permeability of replicated microcellular structures in the Darcy regime. <i>AICHE Journal</i> , 2020, 66, e16915.	3.6	4
12	Pressure Drop in High-Density Porous Metals via Tomography Datasets. <i>Metals and Materials International</i> , 2021, 27, 603-609.	3.4	4
13	Pore-level CFD investigation of velocity and pressure dispositions in microcellular structures. <i>Materials Research Express</i> , 2021, 8, 046516.	1.6	4
14	Computational evaluation of effective transport properties of differential microcellular structures. <i>AICHE Journal</i> , 2020, 66, e16928.	3.6	3
15	Three-dimensional high-resolution image inversion and pore level CFD characterisation of effective thermal conductivity of replicated microcellular structures. <i>International Journal of Thermofluids</i> , 2022, 14, 100141.	7.8	2
16	The effective thermal conductivity of virtual macroporous structures. <i>Results in Engineering</i> , 2022, 15, 100531.	5.1	2
17	Numerical Modelling and Optimisation of Reverberation Cutback for Packed Spheres. <i>Journal of King Saud University, Engineering Sciences</i> , 2021, , .	2.0	1