

# Abba A Abubakr

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22  
papers

80  
citations

4  
h-index

8  
g-index

34  
ext. papers

118  
ext. citations

3.7  
avg, IF

2.67  
L-index

#	Paper	IF	Citations
22	Droplet motion on sonically excited hydrophobic meshes.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6759	4.9	2
21	Impacting Droplet Can Mitigate Dust from PDMS Micro-Post Array Surfaces. <i>Coatings</i> , <b>2021</b> , 11, 1377	2.9	
20	Experimental and Model Studies of Various Size Water Droplet Impacting on a Hydrophobic Surface. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2021</b> , 143,	2.1	1
19	Solution Crystallization of Polycarbonate Surfaces for Hydrophobic State: Water Droplet Dynamics and Life Cycle Assessment towards Self-Cleaning Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
18	Sliding Dynamics of a Water Droplet on Silicon Oil Film Surface. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2021</b> , 143,	2.1	2
17	Droplet Rolling Dynamics over a Hydrophobic Surface with a Minute Width Channel. <i>Langmuir</i> , <b>2021</b> , 37, 7851-7861	4	0
16	On the mechanism of droplet rolling and spinning in inclined hydrophobic plates in wedge with different wetting states. <i>Scientific Reports</i> , <b>2021</b> , 11, 15086	4.9	1
15	Dust mitigation from inclined hydrophobic and hydrophilic surfaces under electrostatic repulsion. <i>Journal of Electrostatics</i> , <b>2021</b> , 109, 103536	1.7	0
14	Hydrophobized metallic meshes can ease water droplet rolling. <i>Soft Matter</i> , <b>2021</b> , 17, 7311-7321	3.6	1
13	A novel method for dust mitigation from PV cell surfaces. <i>Solar Energy</i> , <b>2021</b> , 225, 708-717	6.8	1
12	Water droplet can mitigate dust from hydrophobized micro-post array surfaces. <i>Scientific Reports</i> , <b>2021</b> , 11, 18361	4.9	0
11	Avalanche effect for chemically modified dust mitigation from surfaces. <i>Scientific Reports</i> , <b>2021</b> , 11, 8174.9	4.9	2
10	Dust removal from a hydrophobic surface by rolling fizzy water droplets.. <i>RSC Advances</i> , <b>2020</b> , 10, 19811-19821	3.1	19
9	Droplet Impacting on a Hydrophobic Surface: Influence of Surface Wetting State on Droplet Behavior. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	2.1	3
8	Droplet Rolling and Spinning in V-Shaped Hydrophobic Surfaces for Environmental Dust Mitigation. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
7	Carbonated water droplets on a dusty hydrophobic surface. <i>Soft Matter</i> , <b>2020</b> , 16, 7144-7155	3.6	1
6	Environmental dust repelling from hydrophilic/hydrophobic surfaces under sonic excitations. <i>Scientific Reports</i> , <b>2020</b> , 10, 19348	4.9	2

5	Adhesion characteristics of solution treated environmental dust. <i>Scientific Reports</i> , <b>2020</b> , 10, 13812	4.9	4
4	Environmental dust repelling from hydrophobic and hydrophilic surfaces under vibrational excitation. <i>Scientific Reports</i> , <b>2020</b> , 10, 14346	4.9	2
3	Prediction of Residual Stresses During Gas Nitriding of H13 Steels Using Phase Field Approach. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	1
2	The effect of porosity on the hot corrosion failure of thermal barrier coatings. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2015</b> , 23, 075001	2	5
1	Phase field modeling of V2O5 hot corrosion kinetics in thermal barrier coatings. <i>Computational Materials Science</i> , <b>2015</b> , 99, 105-116	3.2	34