

Vishal V R Nandigana

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

1,183
citations

1307594

7
h-index

1199594

12
g-index

12
all docs

12
docs citations

12
times ranked

1664
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-layer MoS2 nanopores as nanopower generators. Nature, 2016, 536, 197-200.	27.8	830
2	2D materials as an emerging platform for nanopore-based power generation. Nature Reviews Materials, 2019, 4, 588-605.	48.7	253
3	Asymmetric-Fluidic-Reservoirs Induced High Rectification Nanofluidic Diode. Scientific Reports, 2018, 8, 13941.	3.3	23
4	Understanding anomalous current-voltage characteristics in microchannel-nanochannel interconnect devices. Journal of Colloid and Interface Science, 2012, 384, 162-171.	9.4	22
5	Characterization of electrochemical properties of a micro-nanochannel integrated system using computational impedance spectroscopy (CIS). Electrochimica Acta, 2013, 105, 514-523.	5.2	18
6	Controlling the Ionic Current Rectification Factor of a Nanofluidic/Microfluidic Interface with Symmetric Nanocapillary Interconnects. Analytical Chemistry, 2015, 87, 3598-3605.	6.5	15
7	Nonlinear Electrokinetic Transport Under Combined ac and dc Fields in Micro/Nanofluidic Interface Devices. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	1.5	9
8	Overlimiting current near a nanochannel a new insight using molecular dynamics simulations. Scientific Reports, 2021, 11, 15216.	3.3	4
9	Avalanche effects near nanojunctions. Physical Review E, 2016, 94, 012402.	2.1	3
10	1/f pink chaos in nanopores. RSC Advances, 2017, 7, 46092-46100.	3.6	2
11	A molecular dynamics simulation framework for predicting noise in solid-state nanopores. Molecular Simulation, 2020, 46, 1011-1016.	2.0	2
12	Design and development of an automated experimental setup for ion transport measurements. Review of Scientific Instruments, 2022, 93, 064104.	1.3	2