

# Rustom B Bhiladvla

## List of Publications by Year in descending order

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23  
papers

772  
citations

840776

11  
h-index

888059

17  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Method for Fabrication of Meter-Long Multifunctional Hydrogel Fibers with Controllable Biophysical and Biochemical Features. ACS Applied Materials & Interfaces, 2020, 12, 9080-9089.	8.0	40
2	From Single-Nanowire Biosensors to Nanowire Networks for Transparent Electrodes: A Framework to Reduce Fabrication Cost and Improve Device Functionality. Materials Today: Proceedings, 2019, 19, 3-14.	1.8	1
3	Field-directed assembly of nanowires: identifying directors, disruptors and indices to maximize the device yield. Nanoscale, 2016, 8, 889-900.	5.6	9
4	Field-directed chaining of nanowires: towards transparent electrodes. Materials Letters, 2016, 163, 205-208.	2.6	8
5	Nanomechanical Resonant Sensors and Fluid Interactions. , 2016, , 2508-2523.		0
6	Frequency response analysis of guard-heated hot-film wall shear stress sensors for turbulent flows. International Journal of Heat and Fluid Flow, 2014, 46, 61-69.	2.4	8
7	Analyzing guard-heating to enable accurate hot-film wall shear stress measurements for turbulent flows. International Journal of Heat and Mass Transfer, 2014, 70, 835-843.	4.8	11
8	Rhodium nanowires: Synthesis and nanostructure tailoring by controlling hydrogen evolution. Materials Letters, 2013, 113, 152-155.	2.6	7
9	Suppressing electroless growth allows cyanide-free electrodeposition of straight separable gold nanowires. Electrochimica Acta, 2013, 114, 643-648.	5.2	5
10	Nanomedicine. , 2012, , 1644-1644.		0
11	Nanostructures for Coloration (Organisms other than Animals). , 2012, , 1790-1803.		0
12	Nanoresonator chip-based RNA sensor strategy for detection of circulating tumor cells: response using PCA3 as a prostate cancer marker. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1017-1025.	3.3	34
13	Nano-FET. , 2012, , 1543-1543.		0
14	Fluid-Structure Coupling in Gas Damping Response of Nanowire Resonators. , 2010, , .		0
15	Noncontinuum drag force on a nanowire vibrating normal to a wall: Simulations and theory. Physics of Fluids, 2010, 22, 103101.	4.0	16
16	An RNA Sensor Platform for CTC Detection: Nanotechnology for Detection of Tumour Cell Marker RNAs. BIOforum Europe: Trends and Techniques in Life Science Research, 2009, 13, 10-11.	0.0	0
17	Bottom-up assembly of large-area nanowire resonator arrays. Nature Nanotechnology, 2008, 3, 88-92.	31.5	295
18	Template-Grown Metal Nanowires as Resonators: Performance and Characterization of Dissipative and Elastic Properties. Nano Letters, 2007, 7, 3281-3284.	9.1	63

#	ARTICLE	IF	CITATIONS
19	Thermomechanical transitions in doubly-clamped micro-oscillators. International Journal of Non-Linear Mechanics, 2007, 42, 596-607.	2.6	30
20	Synchronous Electrorotation of Nanowires in Fluid. Nano Letters, 2006, 6, 626-632.	9.1	43
21	Effect of fluids on the Qfactor and resonance frequency of oscillating micrometer and nanometer scale beams. Physical Review E, 2004, 69, 036307.	2.1	129
22	Operation of nanomechanical resonant structures in air. Applied Physics Letters, 2002, 81, 2641-2643.	3.3	35
23	Asymmetry of Velocity Increments in Fully Developed Turbulence and the Scaling of Low-Order Moments. Physical Review Letters, 1996, 77, 1488-1491.	7.8	38