

Rustom B Bhiladvala

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Bottom-up assembly of large-area nanowire resonator arrays. <i>Nature Nanotechnology</i> , 2008, 3, 88-92. | 31.5 | 295 |
| 2 | Effect of fluids on the Qfactor and resonance frequency of oscillating micrometer and nanometer scale beams. <i>Physical Review E</i> , 2004, 69, 036307. | 2.1 | 129 |
| 3 | Template-Grown Metal Nanowires as Resonators: Performance and Characterization of Dissipative and Elastic Properties. <i>Nano Letters</i> , 2007, 7, 3281-3284. | 9.1 | 63 |
| 4 | Synchronous Electrorotation of Nanowires in Fluid. <i>Nano Letters</i> , 2006, 6, 626-632. | 9.1 | 43 |
| 5 | Facile Method for Fabrication of Meter-Long Multifunctional Hydrogel Fibers with Controllable Biophysical and Biochemical Features. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9080-9089. | 8.0 | 40 |
| 6 | Asymmetry of Velocity Increments in Fully Developed Turbulence and the Scaling of Low-Order Moments. <i>Physical Review Letters</i> , 1996, 77, 1488-1491. | 7.8 | 38 |
| 7 | Operation of nanomechanical resonant structures in air. <i>Applied Physics Letters</i> , 2002, 81, 2641-2643. | 3.3 | 35 |
| 8 | Nanoresonator chip-based RNA sensor strategy for detection of circulating tumor cells: response using PCA3 as a prostate cancer marker. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1017-1025. | 3.3 | 34 |
| 9 | Thermomechanical transitions in doubly-clamped micro-oscillators. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 596-607. | 2.6 | 30 |
| 10 | Noncontinuum drag force on a nanowire vibrating normal to a wall: Simulations and theory. <i>Physics of Fluids</i> , 2010, 22, 103101. | 4.0 | 16 |
| 11 | Analyzing guard-heating to enable accurate hot-film wall shear stress measurements for turbulent flows. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 835-843. | 4.8 | 11 |
| 12 | Field-directed assembly of nanowires: identifying directors, disruptors and indices to maximize the device yield. <i>Nanoscale</i> , 2016, 8, 889-900. | 5.6 | 9 |
| 13 | Frequency response analysis of guard-heated hot-film wall shear stress sensors for turbulent flows. <i>International Journal of Heat and Fluid Flow</i> , 2014, 46, 61-69. | 2.4 | 8 |
| 14 | Field-directed chaining of nanowires: towards transparent electrodes. <i>Materials Letters</i> , 2016, 163, 205-208. | 2.6 | 8 |
| 15 | Rhodium nanowires: Synthesis and nanostructure tailoring by controlling hydrogen evolution. <i>Materials Letters</i> , 2013, 113, 152-155. | 2.6 | 7 |
| 16 | Suppressing electroless growth allows cyanide-free electrodeposition of straight separable gold nanowires. <i>Electrochimica Acta</i> , 2013, 114, 643-648. | 5.2 | 5 |
| 17 | From Single-Nanowire Biosensors to Nanowire Networks for Transparent Electrodes: A Framework to Reduce Fabrication Cost and Improve Device Functionality. <i>Materials Today: Proceedings</i> , 2019, 19, 3-14. | 1.8 | 1 |
| 18 | Fluid-Structure Coupling in Gas Damping Response of Nanowire Resonators. , 2010, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nanomedicine. , 2012, , 1644-1644. | | 0 |
| 20 | Nanostructures for Coloration (Organisms other than Animals). , 2012, , 1790-1803. | | 0 |
| 21 | Nano-FET. , 2012, , 1543-1543. | | 0 |
| 22 | Nanomechanical Resonant Sensors and Fluid Interactions. , 2016, , 2508-2523. | | 0 |
| 23 | 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 |