

Sung-Cheol Kim

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

309
citations

1307594

7
h-index

1199594

12
g-index

14
all docs

14
docs citations

14
times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Deterministic Lateral Displacement: Challenges and Perspectives. ACS Nano, 2020, 14, 10784-10795.	14.6	97
2	Broken flow symmetry explains the dynamics of small particles in deterministic lateral displacement arrays. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5034-E5041.	7.1	58
3	Bio-inspired silicon nanopikes fabricated by metal-assisted chemical etching for antibacterial surfaces. Applied Physics Letters, 2017, 111, .	3.3	40
4	Gel-on-a-chip: continuous, velocity-dependent DNA separation using nanoscale lateral displacement. Lab on A Chip, 2019, 19, 1567-1578.	6.0	32
5	Sensing of protein molecules through nanopores: a molecular dynamics study. Nanotechnology, 2014, 25, 155502.	2.6	24
6	Geometric dependence of the conductance drop in a nanopore due to a particle. Physical Review E, 2014, 89, 042702.	2.1	19
7	Label-free screening of single biomolecules through resistive pulse sensing technology for precision medicine applications. Nanotechnology, 2015, 26, 182502.	2.6	17
8	Advancements in Throughput, Lifetime, Purification, and Workflow for Integrated Nanoscale Deterministic Lateral Displacement. Advanced Materials Technologies, 2021, 6, 2001083.	5.8	7
9	Dynamical processes of interstitial diffusion in a two-dimensional colloidal crystal. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13220-13226.	7.1	4
10	The Fermi-Dirac distribution provides a calibrated probabilistic output for binary classifiers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	4
11	Optical tweezers as a micromechanical tool for studying defects in 2D colloidal crystals. , 2011, , .		3
12	Nanosensors for next generation drug screening. Proceedings of SPIE, 2013, , .	0.8	2
13	A mask R-CNN based automatic assessment system for nail psoriasis severity. Computers in Biology and Medicine, 2022, 143, 105300.	7.0	2
14	Translocation Studies of Single Strand-DNA Oligomer Complexes with ds-DNA Markers Using Solid-State Nanopores. Biophysical Journal, 2009, 96, 648a.	0.5	0