Hee Chul Park

List of Publications by Year
in descending order

36	393	840776 11	794594 19
papers	citations	h-index	g-index

36	36	36	522
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanomechanics driven by the superconducting proximity effect. New Journal of Physics, 2022, 24, 033008.	2.9	1
2	Cooling of nanomechanical vibrations by Andreev injection. Low Temperature Physics, 2022, 48, 476-482.	0.6	1
3	Nanomechanical cat states generated by a dc voltage-driven Cooper pair box qubit. Npj Quantum Information, 2022, 8, .	6.7	2
4	Higher-Order Topological Corner State Tunneling in Twisted Bilayer Graphene. Carbon, 2021, 174, 260-265.	10.3	14
5	Nonorientability-induced <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> phase transition in ladder lattices. Physical Review A, 2021, 103, .	2.5	1
6	Electronic states of graphene quantum dots induced by nanobubbles. Journal of the Korean Physical Society, 2021, 78, 1208-1214.	0.7	4
7	Topological edge states in bowtie ladders with different cutting edges. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 137, 114941.	2.7	2
8	Kick-induced rectified current in a symmetric nanoelectromechanical shuttle. Physical Review B, 2021, 104, .	3.2	2
9	Machine learning approach to the recognition of nanobubbles in graphene. Applied Physics Letters, 2021, 119, .	3.3	3
10	Manipulation of valley isospins in strained graphene for valleytronics. Carbon, 2020, 157, 578-582.	10.3	17
11	Electronic current in a nano-mechanical kicked electron shuttle. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113835.	2.7	2
12	Nanomechanics driven by Andreev tunneling. Physical Review B, 2020, 102, .	3.2	4
13	Decelerated Hot Carrier Cooling in Graphene via Nondissipative Carrier Injection from MoS₂. ACS Nano, 2020, 14, 13905-13912.	14.6	22
14	Emergent localized states at the interface of a twofold <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric lattice. Physical Review Research, 2020, 2, .	3.6	5
15	DC spin generation by junctions with AC driven spin-orbit interaction. Physical Review B, 2019, 100, .	3.2	5
16	Coulomb-promoted spintromechanics in magnetic shuttle devices. Physical Review B, 2019, 100, .	3.2	5
17	Coulomb effects on thermally induced shuttling of spin-polarized electrons. Low Temperature Physics, 2019, 45, 1032-1040.	0.6	0
18	Flat-band localization and self-collimation of light in photonic crystals. Scientific Reports, 2019, 9, 2862.	3.3	15

#	Article	IF	Citations
19	Kondo effect in a Aharonov-Casher interferometer. Physical Review B, 2019, 100, .	3.2	1
20	Quantum Transport and Non-Hermiticity on Flat-Band Lattices. Journal of Low Temperature Physics, 2018, 191, 49-60.	1.4	5
21	Mechanically induced thermal breakdown in magnetic shuttle structures. New Journal of Physics, 2018, 20, 063036.	2.9	10
22	Interacting ultracold atomic kicked rotors: loss of dynamical localization. Scientific Reports, 2017, 7, 41139.	3.3	15
23	Compact localized states and flat-band generators in one dimension. Physical Review B, 2017, 95, .	3.2	114
24	Direct Probing of the Electronic Structures of Single-Layer and Bilayer Graphene with a Hexagonal Boron Nitride Tunneling Barrier. Nano Letters, 2017, 17, 206-213.	9.1	18
25	Transition of a nanomechanical Sharvin oscillator towards the chaotic regime. New Journal of Physics, 2017, 19, 033033.	2.9	3
26	Reconfiguration of quantum states in $${mathscr{P}}{mathscr{T}}$$ P T -symmetric quasi-one-dimensional lattices. Scientific Reports, 2017, 7, 8746.	3.3	5
27	Gas molecule sensing of van der Waals tunnel field effect transistors. Nanoscale, 2017, 9, 18644-18650.	5.6	29
28	Antiresonance induced by symmetry-broken contacts in quasi-one-dimensional lattices. Physical Review B, 2017, 96, .	3.2	6
29	Conductance oscillations in Chern insulator junctions: Valley-isospin dependence and Aharonov-Bohm effects. Physical Review B, 2017, 96, .	3.2	7
30	Gate-Tunable Spin Transport and Giant Electroresistance in Ferromagnetic Graphene Vertical Heterostructures. Scientific Reports, 2016, 6, 25253.	3.3	3
31	Coulomb blockade of spin-dependent shuttling. Low Temperature Physics, 2013, 39, 1071-1077.	0.6	0
32	Proposal for high sensitivity force sensor inspired by auditory hair cells. Applied Physics Letters, 2009, 95, 013702.	3.3	11
33	Mesoscopic noise and admittance of an electrically driven nano-structure. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1510-1512.	2.7	1
34	Admittance and Noise in an Electrically Driven Nanostructure: Interplay between Quantum Coherence and Statistics. Physical Review Letters, 2008, 101, 116804.	7.8	23
35	Current Rectification by Spontaneous Symmetry Breaking in Coupled Nanomechanical Shuttles. Physical Review Letters, 2006, 97, 216804.	7.8	27
36	Dynamic localization and Fano resonance in double-dot molecules with microwave radiation. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 468-471.	2.7	10