

# Hee Chul Park

## List of Publications by Year in descending order

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36  
papers

393  
citations

840776

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794594

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36  
docs citations

36  
times ranked

522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact localized states and flat-band generators in one dimension. <i>Physical Review B</i> , 2017, 95, .	3.2	114
2	Gas molecule sensing of van der Waals tunnel field effect transistors. <i>Nanoscale</i> , 2017, 9, 18644-18650.	5.6	29
3	Current Rectification by Spontaneous Symmetry Breaking in Coupled Nanomechanical Shuttles. <i>Physical Review Letters</i> , 2006, 97, 216804.	7.8	27
4	Admittance and Noise in an Electrically Driven Nanostructure: Interplay between Quantum Coherence and Statistics. <i>Physical Review Letters</i> , 2008, 101, 116804.	7.8	23
5	Decelerated Hot Carrier Cooling in Graphene <i>via</i> Nondissipative Carrier Injection from MoS <sub>2</sub> . <i>ACS Nano</i> , 2020, 14, 13905-13912.	14.6	22
6	Direct Probing of the Electronic Structures of Single-Layer and Bilayer Graphene with a Hexagonal Boron Nitride Tunneling Barrier. <i>Nano Letters</i> , 2017, 17, 206-213.	9.1	18
7	Manipulation of valley isospins in strained graphene for valleytronics. <i>Carbon</i> , 2020, 157, 578-582.	10.3	17
8	Interacting ultracold atomic kicked rotors: loss of dynamical localization. <i>Scientific Reports</i> , 2017, 7, 41139.	3.3	15
9	Flat-band localization and self-collimation of light in photonic crystals. <i>Scientific Reports</i> , 2019, 9, 2862.	3.3	15
10	Higher-Order Topological Corner State Tunneling in Twisted Bilayer Graphene. <i>Carbon</i> , 2021, 174, 260-265.	10.3	14
11	Proposal for high sensitivity force sensor inspired by auditory hair cells. <i>Applied Physics Letters</i> , 2009, 95, 013702.	3.3	11
12	Dynamic localization and Fano resonance in double-dot molecules with microwave radiation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 34, 468-471.	2.7	10
13	Mechanically induced thermal breakdown in magnetic shuttle structures. <i>New Journal of Physics</i> , 2018, 20, 063036.	2.9	10
14	Conductance oscillations in Chern insulator junctions: Valley-isospin dependence and Aharonov-Bohm effects. <i>Physical Review B</i> , 2017, 96, .	3.2	7
15	Antiresonance induced by symmetry-broken contacts in quasi-one-dimensional lattices. <i>Physical Review B</i> , 2017, 96, .	3.2	6
16	Reconfiguration of quantum states in $\mathbb{P}T$ -symmetric quasi-one-dimensional lattices. <i>Scientific Reports</i> , 2017, 7, 8746.	3.3	5
17	Quantum Transport and Non-Hermiticity on Flat-Band Lattices. <i>Journal of Low Temperature Physics</i> , 2018, 191, 49-60.	1.4	5
18	DC spin generation by junctions with AC driven spin-orbit interaction. <i>Physical Review B</i> , 2019, 100, .	3.2	5

#	ARTICLE	IF	CITATIONS
19	Coulomb-promoted spintromechanics in magnetic shuttle devices. Physical Review B, 2019, 100, .	3.2	5
20	Emergent localized states at the interface of a twofold $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric lattice. Physical Review Research, 2020, 2, .	3.6	5
21	Nanomechanics driven by Andreev tunneling. Physical Review B, 2020, 102, .	3.2	4
22	Electronic states of graphene quantum dots induced by nanobubbles. Journal of the Korean Physical Society, 2021, 78, 1208-1214.	0.7	4
23	Gate-Tunable Spin Transport and Giant Electroresistance in Ferromagnetic Graphene Vertical Heterostructures. Scientific Reports, 2016, 6, 25253.	3.3	3
24	Transition of a nanomechanical Sharvin oscillator towards the chaotic regime. New Journal of Physics, 2017, 19, 033033.	2.9	3
25	Machine learning approach to the recognition of nanobubbles in graphene. Applied Physics Letters, 2021, 119, .	3.3	3
26	Electronic current in a nano-mechanical kicked electron shuttle. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113835.	2.7	2
27	Topological edge states in bowtie ladders with different cutting edges. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 137, 114941.	2.7	2
28	Kick-induced rectified current in a symmetric nanoelectromechanical shuttle. Physical Review B, 2021, 104, .	3.2	2
29	Nanomechanical cat states generated by a dc voltage-driven Cooper pair box qubit. Npj Quantum Information, 2022, 8, .	6.7	2
30	Mesoscopic noise and admittance of an electrically driven nano-structure. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1510-1512.	2.7	1
31	Kondo effect in a Aharonov-Casher interferometer. Physical Review B, 2019, 100, .	3.2	1
32	Nonorientability-induced $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ phase transition in ladder lattices. Physical Review A, 2021, 103, .	2.5	1
33	Nanomechanics driven by the superconducting proximity effect. New Journal of Physics, 2022, 24, 033008.	2.9	1
34	Cooling of nanomechanical vibrations by Andreev injection. Low Temperature Physics, 2022, 48, 476-482.	0.6	1
35	Coulomb blockade of spin-dependent shuttling. Low Temperature Physics, 2013, 39, 1071-1077.	0.6	0
36	Coulomb effects on thermally induced shuttling of spin-polarized electrons. Low Temperature Physics, 2019, 45, 1032-1040.	0.6	0