

Haining Pan

List of Publications by Year in descending order

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447
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#	ARTICLE	IF	CITATIONS
1	Physical mechanisms for zero-bias conductance peaks in Majorana nanowires. Physical Review Research, 2020, 2, .	1.3	145
2	Band topology, Hubbard model, Heisenberg model, and Dzyaloshinskii-Moriya interaction in twisted bilayer $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle WSe \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mh} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$ Physical Review Research, 2020, 2, .	1.3	95
3	Quantum phase diagram of a Moiré-Hubbard model. Physical Review B, 2020, 102, .	1.1	73
4	Disorder-induced zero-bias peaks in Majorana nanowires. Physical Review B, 2021, 103, .	1.1	67
5	Generic quantized zero-bias conductance peaks in superconductor-semiconductor hybrid structures. Physical Review B, 2020, 101, .	1.1	55
6	Three-terminal nonlocal conductance in Majorana nanowires: Distinguishing topological and trivial in realistic systems with disorder and inhomogeneous potential. Physical Review B, 2021, 103, .	1.1	54
7	Quantized and unquantized zero-bias tunneling conductance peaks in Majorana nanowires: Conductance below and above $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle$ Physical Review B, 2021, 103, .	1.1	41
8	Estimating disorder and its adverse effects in semiconductor Majorana nanowires. Physical Review Materials, 2021, 5, .	0.9	40
9	Metamorphosis of Andreev bound states into Majorana bound states in pristine nanowires. Physical Review B, 2018, 98, .	1.1	33
10	Interaction-Driven Filling-Induced Metal-Insulator Transitions in 2D Moiré Lattices. Physical Review Letters, 2021, 127, 096802.	2.9	31
11	Disorder effects on Majorana zero modes: Kitaev chain versus semiconductor nanowire. Physical Review B, 2021, 103, .	1.1	19
12	Crossover between trivial zero modes in Majorana nanowires. Physical Review B, 2021, 104, .	1.1	16
13	On-demand large conductance in trivial zero-bias tunneling peaks in Majorana nanowires. Physical Review B, 2022, 105, .	1.1	14
14	Interaction range and temperature dependence of symmetry breaking in strongly correlated two-dimensional moiré transition metal dichalcogenide bilayers. Physical Review B, 2022, 105, .	1.1	12
15	Curvature of gap closing features and the extraction of Majorana nanowire parameters. Physical Review B, 2019, 99, .	1.1	11