

David Neilson

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

460
citations

1040056

9
h-index

888059

17
g-index

20
all docs

20
docs citations

20
times ranked

346
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Temperature Superfluidity in Double-Bilayer Graphene. <i>Physical Review Letters</i> , 2013, 110, 146803.	7.8	171
2	Effects of density imbalance on the BCS-BEC crossover in semiconductor electron-hole bilayers. <i>Physical Review B</i> , 2007, 75, .	3.2	63
3	Excitonic superfluidity and screening in electron-hole bilayer systems. <i>Physical Review B</i> , 2014, 89, .	3.2	49
4	Evidence from Quantum Monte Carlo Simulations of Large-Gap Superfluidity and BCS-BEC Crossover in Double Electron-Hole Layers. <i>Physical Review Letters</i> , 2018, 120, 177701.	7.8	40
5	Multicomponent Electron-Hole Superfluidity and the BCS-BEC Crossover in Double Bilayer Graphene. <i>Physical Review Letters</i> , 2017, 119, 257002.	7.8	25
6	Experimental conditions for the observation of electron-hole superfluidity in GaAs heterostructures. <i>Physical Review B</i> , 2020, 101, .	3.2	21
7	Multicomponent screening and superfluidity in gapped electron-hole double bilayer graphene with realistic bands. <i>Physical Review B</i> , 2019, 99, .	3.2	19
8	Transition Metal Dichalcogenides as Strategy for High Temperature Electron-Hole Superfluidity. <i>Condensed Matter</i> , 2020, 5, 22.	1.8	15
9	Doping-dependent switch from one- to two-component superfluidity in coupled electron-hole van der Waals heterostructures. <i>Physical Review B</i> , 2020, 101, .	3.2	14
10	Two-dimensional semiconductors host high-temperature exotic state. <i>Nature</i> , 2019, 574, 39-40.	27.8	9
11	Electron-hole superfluidity in strained Si/Ge type II heterojunctions. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	9
12	Multiband Mechanism for the Sign Reversal of Coulomb Drag Observed in Double Bilayer Graphene Heterostructures. <i>Physical Review Letters</i> , 2018, 121, 036601.	7.8	8
13	Three-dimensional electron-hole superfluidity in a superlattice close to room temperature. <i>Physical Review B</i> , 2020, 102, .	3.2	8
14	Electric-field-induced emergent electrical connectivity in graphene oxide. <i>Physical Review B</i> , 2019, 99, .	3.2	3
15	TUNNELING AND HOPPING BETWEEN DOMAINS IN THE METAL-INSULATOR TRANSITION IN TWO-DIMENSIONS. <i>International Journal of Modern Physics B</i> , 2008, 22, 4565-4571.	2.0	2
16	Coulomb drag in strongly coupled quantum wells: Temperature dependence of the many-body correlations. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	2
17	Effect of Mismatched Electron-Hole Effective Masses on Superfluidity in Double Layer Solid-State Systems. <i>Condensed Matter</i> , 2021, 6, 14.	1.8	2
18	QUANTUM CRITICAL BEHAVIOUR IN THE INSULATING REGION OF THE 2D METAL INSULATOR TRANSITION. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
19	ELECTRON GAS IN HIGH-FIELD NANOSCOPIC TRANSPORT: METALLIC CARBON NANOTUBES. , 2007, , .		0
20	TUNNELING AND HOPPING BETWEEN DOMAINS IN THE METAL-INSULATOR TRANSITION IN TWO-DIMENSIONS. , 2008, , .		0