David Neilson

List of Publications by Year
in descending order

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

#	Article	IF	Citations
19	ELECTRON GAS IN HIGH-FIELD NANOSCOPIC TRANSPORT: METALLIC CARBON NANOTUBES. , 2007, , .		0
20	QUANTUM CRITICAL BEHAVIOUR IN THE INSULATING REGION OF THE 2D METAL INSULATOR TRANSITION. , 2006, , .		0