

David A Ruiz-Tijerina

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

1,125
citations

686830

13
h-index

794141

19
g-index

19
all docs

19
docs citations

19
times ranked

1920
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonantly hybridized excitons in moiré superlattices in van der Waals heterostructures. Nature, 2019, 567, 81-86.	13.7	621
2	Interlayer hybridization and moiré superlattice minibands for electrons and excitons in heterobilayers of transition-metal dichalcogenides. Physical Review B, 2019, 99, .	1.1	116
3	Interaction effects on a Majorana zero mode leaking into a quantum dot. Physical Review B, 2015, 91, .	1.1	75
4	Nano-imaging of intersubband transitions in van der Waals quantum wells. Nature Nanotechnology, 2018, 13, 1035-1041.	15.6	75
5	Hybrid k - p tight-binding model for subbands and infrared intersubband optics in few-layer films of transition-metal dichalcogenides: MoS_2 bilayers. Physical Review B, 2018, 98, .	1.1	34
6	Localized interlayer complexes in heterobilayer transition metal dichalcogenides. Physical Review B, 2018, 97, .	1.1	29
7	Superposition of intra- and inter-layer excitons in twistrionic $\text{MoSe}_2/\text{WSe}_2$ bilayers probed by resonant Raman scattering. 2D Materials, 2021, 8, 035009.	2.0	25
8	Multifaceted moiré superlattice physics in twisted $\text{WSe}_2/\text{MoS}_2$ bilayers. Physical Review B, 2021, 104, .	1.1	21
9	Band energy landscapes in twisted homobilayers of transition metal dichalcogenides. Applied Physics Letters, 2021, 118, .	1.5	21
10	Theory of moiré localized excitons in transition metal dichalcogenide heterobilayers. Physical Review B, 2020, 102, .	1.1	19
11	Tuning of impurity-bound interlayer complexes in a van der Waals heterobilayer. 2D Materials, 2019, 6, 035032.	2.0	17
12	Symmetry-protected coherent transport for diluted vacancies and adatoms in graphene. Physical Review B, 2016, 94, .	1.1	16
13	Transport signatures of Kondo physics and quantum criticality in graphene with magnetic impurities. Physical Review B, 2017, 95, .	1.1	14
14	Multiflavor Dirac fermions in Kekulé-distorted graphene bilayers. Physical Review B, 2019, 100, .	1.1	13
15	Dynamical magnetic anisotropy and quantum phase transitions in a vibrating spin-1 molecular junction. Physical Review B, 2012, 86, .	1.1	11
16	Capacitive interactions and Kondo effect tuning in double quantum impurity systems. Physical Review B, 2014, 90, .	1.1	7
17	Excited Rydberg states in $\text{MoSe}_2/\text{WSe}_2$ heterostructures. 2D Materials, 2021, 8, 035047.	2.0	5
18	Moiré band structures of twisted phosphorene bilayers. Physical Review B, 2022, 105, .	1.1	3