

# Mohammad Zarenia

## List of Publications by Year in descending order

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57  
papers

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citations

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Dirac Fermion Cloning, Moiré Flat Bands, and Magic Lattice Constants in Epitaxial Monolayer Graphene. <i>Advanced Materials</i> , 2022, 34, e2200625.	21.0	9
2	Dynamic tracking of scaphoid, lunate, and capitate carpal bones using four-dimensional MRI. <i>PLoS ONE</i> , 2022, 17, e0269336.	2.5	3
3	Charge transport in magnetic topological ultra-thin films: the effect of structural inversion asymmetry. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 325702.	1.8	1
4	Circular quantum dots in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	3.2	19
5	Enhanced hydrodynamic transport in near magic angle twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	3.2	10
6	Reply to "Comment on "Excitons, trions, and biexcitons in transition-metal dichalcogenides: Magnetic-field dependence". <i>Physical Review B</i> , 2020, 101, .	3.2	0
7	Two distinctive regimes in the charge transport of a magnetic topological ultra thin film. <i>New Journal of Physics</i> , 2020, 22, 123004.	2.9	2
8	Thermal transport in compensated semimetals: Effect of electron-electron scattering on Lorenz ratio. <i>Physical Review B</i> , 2020, 102, .	3.2	11
9	Temperature collapse of the electric conductivity in bilayer graphene. <i>Physical Review Research</i> , 2020, 2, .	3.6	2
10	Disorder-enabled hydrodynamics of charge and heat transport in monolayer graphene. <i>2D Materials</i> , 2019, 6, 035024.	4.4	20
11	Breakdown of the Wiedemann-Franz law in $A/B$ -stacked bilayer graphene. <i>Physical Review B</i> , 2019, 99, .	3.2	16
12	Coulomb drag in strongly coupled quantum wells: Temperature dependence of the many-body correlations. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	2
13	Strong valley Zeeman effect of dark excitons in monolayer transition metal dichalcogenides in a tilted magnetic field. <i>Physical Review B</i> , 2018, 97, .	3.2	22
14	High-temperature electron-hole superfluidity with strong anisotropic gaps in double phosphorene monolayers. <i>Physical Review B</i> , 2018, 97, .	3.2	21
15	Anisotropic charge density wave in electron-hole double monolayers: Applied to phosphorene. <i>Physical Review B</i> , 2018, 98, .	3.2	0
16	Magnetic field dependence of atomic collapse in bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	3.2	2
17	Comment on "Impurity spectra of graphene under electric and magnetic fields". <i>Physical Review B</i> , 2018, 97, .	3.2	5
18	Edge states in gated bilayer-monolayer graphene ribbons and bilayer domain walls. <i>Journal of Applied Physics</i> , 2018, 123, 204301.	2.5	4

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19	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
20	Excitons, trions, and biexcitons in transition-metal dichalcogenides: Magnetic-field dependence. <i>Physical Review B</i> , 2018, 97, .	3.2	45
21	Exciton states in a circular graphene quantum dot: Magnetic field induced intravalley to intervalley transition. <i>Physical Review B</i> , 2017, 95, .	3.2	9
22	Transmission in grapheneâ€“topological insulator heterostructures. <i>Physical Review B</i> , 2017, 95, .	3.2	5
23	Wigner crystallization in transition metal dichalcogenides: A new approach to correlation energy. <i>Physical Review B</i> , 2017, 95, .	3.2	22
24	Inhomogeneous phases in coupled electron-hole bilayer graphene sheets: Charge Density Waves and Coupled Wigner Crystals. <i>Scientific Reports</i> , 2017, 7, 11510.	3.3	13
25	Magnetic properties of bilayer graphene quantum dots in the presence of uniaxial strain. <i>Physical Review B</i> , 2017, 96, .	3.2	14
26	Landau levels in biased graphene structures with monolayer-bilayer interfaces. <i>Physical Review B</i> , 2017, 96, .	3.2	9
27	Excitons and trions in monolayer transition metal dichalcogenides: A comparative study between the multiband model and the quadratic single-band model. <i>Physical Review B</i> , 2017, 96, .	3.2	61
28	Electrostatically confined trilayer graphene quantum dots. <i>Physical Review B</i> , 2017, 95, .	3.2	7
29	Graphene quantum dot with a Coulomb impurity: Subcritical and supercritical regime. <i>Physical Review B</i> , 2017, 95, .	3.2	14
30	Quantum transport across van der Waals domain walls in bilayer graphene. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 425303.	1.8	12
31	Many-body electron correlations in graphene. <i>Journal of Physics: Conference Series</i> , 2016, 702, 012008.	0.4	4
32	Correlation and current anomalies in helical quantum dots. <i>Physical Review B</i> , 2016, 94, .	3.2	4
33	Strain-induced topological phase transition in phosphorene and in phosphorene nanoribbons. <i>Physical Review B</i> , 2016, 94, .	3.2	90
34	Magnetic field dependence of energy levels in biased bilayer graphene quantum dots. <i>Physical Review B</i> , 2016, 93, .	3.2	22
35	Energy levels of hybrid monolayer-bilayer graphene quantum dots. <i>Physical Review B</i> , 2016, 93, .	3.2	30
36	Hexagonal-shaped monolayer-bilayer quantum disks in graphene: A tight-binding approach. <i>Physical Review B</i> , 2016, 94, .	3.2	10

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37	Large gap electron-hole superfluidity and shape resonances in coupled graphene nanoribbons. Scientific Reports, 2016, 6, 24860.	3.3	8
38	Energy levels of ABC-stacked trilayer graphene quantum dots with infinite-mass boundary conditions. Physical Review B, 2016, 94, .	3.2	9
39	Gate tunable layer selectivity of transport in bilayer graphene nanostructures. Europhysics Letters, 2016, 113, 17006.	2.0	17
40	Energy levels of bilayer graphene quantum dots. Physical Review B, 2015, 92, .	3.2	24
41	Wave fronts and packets in 1D models of different meta-materials: Graphene, left-handed media and transmission line. Physica Status Solidi (B): Basic Research, 2015, 252, 2330-2338.	1.5	1
42	Analytical study of the energy levels in bilayer graphene quantum dots. Carbon, 2014, 78, 392-400.	10.3	36
43	Geometry and edge effects on the energy levels of graphene quantum rings: A comparison between tight-binding and simplified Dirac models. Physical Review B, 2014, 89, .	3.2	58
44	Enhancement of electron-hole superfluidity in double few-layer graphene. Scientific Reports, 2014, 4, 7319.	3.3	42
45	Electron-electron interactions in bilayer graphene quantum dots. Physical Review B, 2013, 88, .	3.2	32
46	Snake states in graphene quantum dots in the presence of a $p$ - $n$ junction. Physical Review B, 2013, 87, .	3.2	17
47	Landau-level dispersion and the quantum Hall plateaus in bilayer graphene. , 2013, , .		0
48	Substrate-induced chiral states in graphene. Physical Review B, 2012, 86, .	3.2	41
49	Interband optical absorption in a circular graphene quantum dot. Physica Scripta, 2012, T149, 014056.	2.5	6
50	Magnetotransport in periodically modulated bilayer graphene. Physical Review B, 2012, 85, .	3.2	19
51	Energy levels of triangular and hexagonal graphene quantum dots: A comparative study between the tight-binding and Dirac equation approach. Physical Review B, 2011, 84, .	3.2	148
52	Chiral states in bilayer graphene: Magnetic field dependence and gap opening. Physical Review B, 2011, 84, .	3.2	53
53	Electronic and optical properties of a circular graphene quantum dot in a magnetic field: Influence of the boundary conditions. Physical Review B, 2011, 84, .	3.2	84
54	Topological confinement in an antisymmetric potential in bilayer graphene in the presence of a magnetic field. Nanoscale Research Letters, 2011, 6, 452.	5.7	5

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55	OPTIMIZATION OF QUANTUM MONTE CARLO WAVE FUNCTION: STEEPEST DESCENT METHOD. International Journal of Modern Physics C, 2010, 21, 523-533.	1.7	8
56	Simplified model for the energy levels of quantum rings in single layer and bilayer graphene. Physical Review B, 2010, 81, .	3.2	75
57	Electrostatically Confined Quantum Rings in Bilayer Graphene. Nano Letters, 2009, 9, 4088-4092.	9.1	51