Alev Devrim GÃ¼Ã§lÃ¼

List of Publications by Year
in descending order

49 papers	1,406 citations	361413 20 h-index	315739 38 g-index
50 all docs	50 docs citations	50 times ranked	1060 citing authors

#	Article	IF	Citations
1	Atomic collapse in graphene quantum dots in a magnetic field. Solid State Communications, 2022, 351, 114763.	1.9	3
2	Electronic and magnetic properties of graphene quantum dots with two charged vacancies. Solid State Communications, 2020, 322, 114096.	1.9	8
3	Atomic collapse in disordered graphene quantum dots. Physical Review B, 2020, 102, .	3.2	3
4	Collapse of the vacuum in hexagonal graphene quantum dots: A comparative study between tight-binding and mean-field Hubbard models. Physical Review B, 2020, 101, .	3.2	5
5	Effects of random atomic disorder on the magnetic stability of graphene nanoribbons with zigzag edges. Physical Review B, 2018, 98, .	3.2	7
6	Wigner crystallization in topological flat bands. New Journal of Physics, 2018, 20, 063023.	2.9	21
7	Defect induced Anderson localization and magnetization in graphene quantum dots. Solid State Communications, 2018, 281, 44-48.	1.9	5
8	Effects of long-range disorder and electronic interactions on the optical properties of graphene quantum dots. Physical Review B, 2017, 95, .	3.2	7
9	Effects of interedge scattering on the Wigner crystallization in graphene nanoribbons. Physical Review B, 2017, 95, .	3.2	7
10	Theory of optical properties of graphene quantum dots. Physica Status Solidi - Rapid Research Letters, 2016, 10, 102-110.	2.4	19
11	Magnetic phases of graphene nanoribbons under potential fluctuations. Physical Review B, 2016, 93, .	3.2	16
12	Wigner crystallization at graphene edges. Physical Review B, 2016, 93, .	3.2	3
13	Sublattice engineering and voltage control of magnetism in triangular single and biâ€layer graphene quantum dots. Physica Status Solidi - Rapid Research Letters, 2016, 10, 58-67.	2.4	8
14	Spin-orbit coupling and optical detection of spin polarisation in triangular graphene quantum dots. International Journal of Nanotechnology, 2015, 12, 174.	0.2	1
15	Spin-spin correlations of magnetic adatoms on graphene. Physical Review B, 2015, 91, .	3.2	9
16	Optical Properties of Graphene Nanostructures. Nanoscience and Technology, 2014, , 145-168.	1.5	1
17	Graphene Quantum Dots. Nanoscience and Technology, 2014, , .	1.5	89
18	Microscopic theory of the optical properties of colloidal graphene quantum dots. Physical Review B, 2014, 89, .	3.2	55

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19	Single-Particle Properties of Graphene Quantum Dots. Nanoscience and Technology, 2014, , 39-90.	1.5	1
20	Electronâ€"Electron Interactions in Graphene Quantum Dots. Nanoscience and Technology, 2014, , 91-110.	1.5	0
21	Magnetic Properties of Gated Graphene Nanostructures. Nanoscience and Technology, 2014, , 111-144.	1.5	2
22	Graphene Nanostructures and Quantum Dots. Nanoscience and Technology, 2014, , 29-38.	1.5	1
23	Graphene-based integrated electronic, photonic and spintronic circuit. , 2013, , .		0
24	Electron-electron interactions and topology in the electronic properties of gated graphene nanoribbon rings in MÃ¶bius and cylindrical configurations. Physical Review B, 2013, 87, .	3.2	26
25	Zero-energy states of graphene triangular quantum dots in a magnetic field. Physical Review B, 2013, 88, .	3.2	33
26	Optical control of magnetization and spin blockade in graphene quantum dots. Physical Review B, 2013, 87, .	3.2	21
27	Electronic properties of gated triangular graphene quantum dots: Magnetism, correlations, and geometrical effects. Physical Review B, 2012, 85, .	3.2	97
28	Electronic and optical properties of semiconductor and graphene quantum dots. Frontiers of Physics, 2012, 7, 328-352.	5.0	57
29	Effect of edge reconstruction and passivation on zero-energy states and magnetism in triangular graphene quantum dots with zigzag edges. Physical Review B, 2011, 83, .	3.2	69
30	Electronic and magnetic properties of triangular graphene quantum rings. Physical Review B, 2011, 83, .	3.2	56
31	Electric-field controlled spin in bilayer triangular graphene quantum dots. Physical Review B, 2011, 84, .	3.2	59
32	Optical Properties of Graphene Quantum Dots with Fractionally Filled Degenerate Shell of Zero Energy States. AIP Conference Proceedings, 2011, , .	0.4	0
33	Zero-energy states in triangular and trapezoidal graphene structures. Physical Review B, 2010, 81, .	3.2	102
34	Excitonic absorption in gate-controlled graphene quantum dots. Physical Review B, 2010, 82, .	3.2	121
35	Spin and electronic correlations in gated graphene quantum rings. Physical Review B, 2010, 82, .	3.2	49
36	Localization in an inhomogeneous quantum wire. Physical Review B, 2009, 80, .	3.2	35

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37	Magnetism and Correlations in Fractionally Filled Degenerate Shells of Graphene Quantum Dots. Physical Review Letters, 2009, 103, 246805.	7.8	127
38	Electronic Shells of Dirac Fermions in Graphene Quantum Rings in a Magnetic Field. Acta Physica Polonica A, 2009, 116, 832-834.	0.5	12
39	Interaction-induced strong localization in quantum dots. Physical Review B, 2008, 77, .	3.2	27
40	Incipient Wigner localization in circular quantum dots. Physical Review B, 2007, 76, .	3.2	50
41	Correlation-induced inhomogeneity in circular quantum dots. Nature Physics, 2006, 2, 336-340.	16.7	72
42	Composite-fermion antiparticle description of the hole excitation in a maximum-density droplet with a small number of electrons. Physical Review B, 2005, 72, .	3.2	9
43	Quantum Monte Carlo study of composite fermions in quantum dots: The effect of Landau-level mixing. Physical Review B, 2005, 72, .	3.2	37
44	Maximum-density droplet to lower-density droplet transition in quantum dots. Physical Review B, 2005, 72, .	3.2	21
45	Kondo resonance in a quantum dot molecule. Physical Review B, 2003, 68, .	3.2	20
46	Disordered quantum dots:â€ƒA diffusion quantum Monte Carlo study. Physical Review B, 2003, 68, .	3.2	18
47	Geometric blockade in a quantum dot:â€‚â€‚Transport properties by exact diagonalization. Physical Review B, 2002, 66, .	3.2	11
48	Photoluminescence study of carrier dynamics and recombination in a strained InGaAsP/InP multiple-quantum-well structure. Journal of Applied Physics, 1999, 86, 3391-3397.	2.5	2
49	Comparison between the Monte Carlo method and the drift-diffusion approximation in quantum-well laser simulation. Journal of Applied Physics, 1998, 84, 4673-4676.	2.5	1