

Samvel Badalyan

List of Publications by Year in descending order

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27
papers

489
citations

687363

13
h-index

677142

22
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27
all docs

27
docs citations

27
times ranked

404
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of nonhomogenous dielectric background on the plasmon modes in graphene double-layer structures at finite temperatures. Physical Review B, 2012, 85, .	3.2	74
2	Anisotropic plasmons in a two-dimensional electron gas with spin-orbit interaction. Physical Review B, 2009, 79, .	3.2	63
3	Plasmonic excitations in Coulomb-coupled N -layer graphene structures. Physical Review B, 2013, 87, .	3.2	56
4	Beating of Friedel oscillations induced by spin-orbit interaction. Physical Review B, 2010, 81, .	3.2	35
5	Nonhomogeneous magnetic-field-induced magnetic edge states and their transport in a quantum wire. Physical Review B, 2001, 64, .	3.2	26
6	Enhancement of Coulomb drag in double-layer graphene structures by plasmons and dielectric background inhomogeneity. Physical Review B, 2012, 86, .	3.2	26
7	Exchange and correlation effects on plasmon dispersions and Coulomb drag in low-density electron bilayers. Physical Review B, 2007, 75, .	3.2	24
8	Piezoelectric surface acoustical phonon limited mobility of electrons in graphene on a GaAs substrate. Physical Review B, 2013, 87, .	3.2	24
9	Finite Width and Local Field Corrections to Spin Coulomb Drag in a Quasi-Two-Dimensional Electron Gas. Physical Review Letters, 2008, 100, 016603.	7.8	19
10	Electron energy and temperature relaxation in graphene on a piezoelectric substrate. Physical Review B, 2014, 89, .	3.2	17
11	Spin Hall Drag in Electronic Bilayers. Physical Review Letters, 2009, 103, 196601.	7.8	16
12	Spin edge states: An exact solution and oscillations of the spin current. Physical Review B, 2009, 80, .	3.2	16
13	Electron-Phonon Bound States in Graphene in a Perpendicular Magnetic Field. Physical Review Letters, 2012, 109, 256602.	7.8	15
14	Electron-phonon bound state in graphene. Physical Review B, 2012, 85, .	3.2	13
15	Frictional drag between spatially separated two-dimensional electron gases mediated by virtual-phonon exchange. Physical Review B, 1999, 59, 5643-5647.	3.2	12
16	Electron polarization function and plasmons in metallic armchair graphene nanoribbons. Physical Review B, 2015, 91, .	3.2	12
17	Spin Edge Helices in a Perpendicular Magnetic Field. Physical Review Letters, 2010, 105, 186601.	7.8	8
18	Spin-current generation from Coulomb-Rashba interaction in semiconductor bilayers. Physical Review B, 2011, 84, .	3.2	8

#	ARTICLE	IF	CITATIONS
19	Coulomb drag between a carbon nanotube and monolayer graphene. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
20	Plasmons in Dimensionally Mismatched Coulomb Coupled Graphene Systems. <i>Physical Review Letters</i> , 2017, 119, 126801.	7.8	6
21	Transport of magnetic edge states in a quantum wire exposed to a non-homogeneous magnetic field. <i>Nanotechnology</i> , 2001, 12, 570-576.	2.6	5
22	Frictional magnetodrag between spatially separated two-dimensional electron systems: Coulomb versus phonon mediated electron-electron interaction. <i>Solid State Communications</i> , 2003, 127, 521-526.	1.9	3
23	Spin-orbit-interaction induced singularity of the charge density relaxation propagator. <i>Physical Review B</i> , 2013, 88, .	3.2	2
24	Helical liquid of snake states. <i>Physical Review B</i> , 2013, 88, .	3.2	2
25	Intra-Landau-level collective excitations in a bilayer disordered electronic system. <i>Physical Review B</i> , 2005, 71, .	3.2	0
26	Spin edge states in two-dimensional electron systems. <i>Journal of Contemporary Physics</i> , 2010, 45, 70-76.	0.6	0
27	Interplay between Coulomb and phonon-mediated drag in low-density bi-layers. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0