Mohsen Yarmohammadi

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/5019754/mohsen-yarmohammadi-publications-by-year.pdf

Version: 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 836 18 20 g-index

94 1,031 2.6 avg, IF L-index

#	Paper	IF	Citations
92	Rotating exchange field effect on the electron energy loss spectrum of black phosphorene: anisotropic blue and red shift phenomena. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 045105	3	1
91	Anisotropic ferroelectric distortion effects on the RKKY interaction in topological crystalline insulators. <i>Scientific Reports</i> , 2021 , 11, 5273	4.9	1
90	Systematic competition between strain and electric field stimuli in tuning EELS of phosphorene. <i>Scientific Reports</i> , 2021 , 11, 3716	4.9	1
89	Dynamic mean-field theory for dense spin systems at infinite temperature. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
88	Spin-splitting effects on the interband optical conductivity and activity of phosphorene. <i>Scientific Reports</i> , 2020 , 10, 9201	4.9	5
87	Linear interband optical refraction and absorption in strained black phosphorene. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 465301	1.8	3
86	Electrical conductivity of statically perturbed topological crystalline insulators. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 425301	3	1
85	Electric field tuning of the properties of monolayer hexagonal boron phosphide. <i>Journal of Applied Physics</i> , 2020 , 128, 215703	2.5	4
84	Effective low-energy RKKY interaction in doped topological crystalline insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	5
83	Anisotropic basic electronic properties of strained black phosphorene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114323	3	5
82	On the bias voltage and staggered potential effects in tuning anisotropic temperature-dependent electrical conductivity of topological crystalline insulator thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114330	3	1
81	Triaxial strain engineering of magnetic phase in phosphorene. Journal of Applied Physics, 2019, 126, 063	3 <u>9</u> 03	3
80	Strain engineering of optical activity in phosphorene RSC Advances, 2019, 9, 19006-19015	3.7	17
79	Optical interband transitions in strained phosphorene. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15133-15141	3.6	11
78	Perturbation-induced magnetic phase transition in bilayer phosphorene. <i>Journal of Applied Physics</i> , 2019 , 125, 213903	2.5	8
77	Blue shift in the interband optical transitions of gated monolayer black phosphorus. <i>Journal of Applied Physics</i> , 2019 , 125, 193101	2.5	4
76	Strain-induced electronic phase transition in phosphorene: A Green function study. <i>Chemical Physics</i> , 2019 , 522, 249-255	2.3	12

75	Magneto-EELS of armchair boronitrene nanoribbons. RSC Advances, 2019, 9, 2829-2835	3.7	4
74	Real-space exciton distribution in strained-siligraphene g-SiC7. Journal of Applied Physics, 2019, 126, 06	31.04	5
73	A methodical study of quantum phase engineering in topological crystalline insulator SnTe and related alloys. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21633-21650	3.6	12
72	Modified tailoring the electronic phase and emergence of midstates in impurity-imbrued armchair graphene nanoribbons. <i>Scientific Reports</i> , 2019 , 9, 10651	4.9	5
71	Perpendicular electric field effects on the propagation of electromagnetic waves through the monolayer phosphorene. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 491, 165629	2.8	6
70	Electro-optical properties of a pressure-induced gBiC7 sheet from many-body perturbation theory. <i>Physical Review B</i> , 2019 , 100,	3.3	9
69	Enhancement of the anisotropic thermoelectric power factor of topological crystalline insulator SnTe and related alloys via external perturbations. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25573-255	i8 [53	18
68	Borophene becomes a semiconductor and semimetal via a perpendicular electric field and dilute charged impurity. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21790-21797	3.6	20
67	Impurity-tuning of phase transition and mid-state in 2D spin Lieb lattice. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 105, 56-61	3	5
66	Magnonic heat transport in the Lieb lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 623-628	2.8	3
65	Anisotropic magneto-thermoelectric properties of single-layer dilute charged impurity-infected black phosphorus. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 107, 11-17	3	13
64	Linear magneto-electron-light interaction in ultranarrow armchair graphene and boronitrene nanoribbons. <i>Diamond and Related Materials</i> , 2019 , 92, 86-91	3.5	7
63	Perturbed magnonic thermodynamic properties of the impurity-infected Lieb lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 474, 137-143	2.8	1
62	Tuning thermoelectric transport in phosphorene through a perpendicular magnetic field. <i>Chemical Physics</i> , 2019 , 519, 1-5	2.3	21
61	Zeeman magnetic field effect on the thermodynamic properties of armchair and zigzag phosphorene. <i>Materials Research Express</i> , 2019 , 6, 015903	1.7	4
60	Combined electric and magnetic field-induced anisotropic tunable electronic phase transition in AB-stacked bilayer phosphorene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 106, 250-257	3	21
59	Interplay of orbital hopping and perpendicular magnetic field in anisotropic phase transitions for Bernal bilayer graphene and hexagonal boron-nitride. <i>Physical Chemistry Chemical Physics</i> , 2018 , 21, 23	8 <i>-</i> 3245	17
58	Impurity-induced anisotropic semiconductor-semimetal transition in monolayer biased black phosphorus. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1885-1889	2.3	18

57	Spectral iterative method and convergence analysis for solving nonlinear fractional differential equation. <i>Journal of Computational Physics</i> , 2018 , 359, 436-450	4.1	9
56	Electronic Collective Mode Behaviors in Doped and Gated Armchair-Type Graphene Nanoribbons. <i>Plasmonics</i> , 2018 , 13, 1963-1969	2.4	
55	The role of electronic dopant on full band in-plane RKKY coupling in armchair graphene nanoribbons-magnetic impurity system. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 362-36	5 7 .8	8
54	Insulator-semimetallic transition in quasi-1D charged impurity-infected armchair boron-nitride nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 995-999	2.3	6
53	Coherent control of the route of magnetic phases in quasi-1D armchair graphene nanoribbons via doping in the presence of electronic correlations. <i>Solid State Communications</i> , 2018 , 271, 21-28	1.6	11
52	Invalidity of the Fermi liquid theory and magnetic phase transition in quasi-1D dopant-induced armchair-edged graphene nanoribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 157-16	3.8 3	4
51	Effect of Gap Parameter on Electronic Heat Capacity and Magnetic Susceptibility of Graphene in the Presence of Holstein Phonons. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1293-12	.9 ⁵ 9 ⁵	1
50	Direction-dependent electronic phase transition in magnetic field-induced gated phosphorene. Journal of Magnetism and Magnetic Materials, 2018 , 465, 646-650	2.8	20
49	Pauli magnetic susceptibility of doped and biased phosphorene in the presence of Zeeman magnetic field and dilute charged impurity. <i>Superlattices and Microstructures</i> , 2018 , 122, 453-460	2.8	16
48	Zeeman-magnetic-fieldInduced magnetic phase transition in doped armchair boron-nitride nanoribbons. <i>Europhysics Letters</i> , 2018 , 122, 17005	1.6	20
47	Anisotropic electronic heat capacity and electrical conductivity of monolayer biased impurity-infected black phosphorus. <i>Solid State Communications</i> , 2018 , 280, 39-44	1.6	21
46	Spin- and valley-dependent electrical conductivity of ferromagnetic group-IV 2D sheets in the topological insulator phase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 340-346	3	6
45	On the intra- and interband plasmon modes in doped armchair graphene nanoribbons. <i>Superlattices and Microstructures</i> , 2018 , 113, 576-584	2.8	3
44	The Kubo-Greenwood spin-dependent electrical conductivity of 2D transition-metal dichalcogenides and group-IV materials: A Green function study. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 57-64	2.8	13
43	On the influence of dilute charged impurity and perpendicular electric field on the electronic phase of phosphorene: Band gap engineering. <i>Europhysics Letters</i> , 2018 , 124, 27001	1.6	22
42	Magnon-impurity interaction effect on the magnonic heat capacity of the Lieb lattice. <i>AIP Advances</i> , 2018 , 8, 125317	1.5	3
41	Combined effect of the perpendicular magnetic field and dilute charged impurity on the electronic phase of bilayer AA-stacked hydrogenated graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 3298-3305	2.3	23
40	Perturbation tuning of plasmon modes in semiconductor armchair nanoribbons. <i>Physical Review B</i> , 2018 , 98,	3.3	18

39	Charged impurity-tuning of midgap states in biased Bernal bilayer black phosphorus: an anisotropic electronic phase transition. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25044-25051	3.6	18	
38	A controllable magneto-topological property and band gap engineering in 2D ferromagnetic Lieb lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 464, 103-107	2.8	10	
37	Direction-dependent electronic thermal conductivity and thermopower of single-layer black phosphorus in the presence of bias voltage and dilute charged impurity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 103, 76-80	3	12	
36	Magneto-thermodynamic properties of gapped graphene-like structures. <i>Indian Journal of Physics</i> , 2017 , 91, 659-664	1.4	2	
35	Spin-valley Hall conductivity of doped ferromagnetic silicene under strain. <i>Chinese Physics B</i> , 2017 , 26, 017203	1.2	5	
34	The Effects of Electric and Exchange Magnetic Fields on Spin Energy Dispersion, Electronic Heat Capacity and Magnetic Susceptibility of Monolayer Silicene. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 1859-1866	1.5	1	
33	The Effect of Exchange Magnetic Field on Spin Magnetic Susceptibility of Monolayer and AB-Stacked Bilayer MoS2. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 1905-1913	1.5	О	
32	Spin heat capacity of monolayer and AB-stacked bilayer MoS 2 in the presence of exchange magnetic field. <i>Superlattices and Microstructures</i> , 2017 , 104, 331-340	2.8	5	
31	Electronic miniband structure, heat capacity and magnetic susceptibility of monolayer and bilayer silicene in TI, VSPM and BI regimes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1261-1267	2.3	18	
30	The effect of Rashba spinBrbit coupling on the spin- and valley-dependent electronic heat capacity of silicene. <i>RSC Advances</i> , 2017 , 7, 10650-10659	3.7	13	
29	The electronic properties, electronic heat capacity and magnetic susceptibility of monolayer boron nitride graphene-like structure in the presence of electron-phonon coupling. <i>Solid State Communications</i> , 2017 , 253, 57-62	1.6	10	
28	Spin magnetic susceptibility of ferromagnetic silicene in the presence of Rashba spin-orbit coupling. <i>AIP Advances</i> , 2017 , 7, 035211	1.5	3	
27	Transport and Magnetoresistance in Topological Insulator-Based Ferromagnetic/Insulator/Ferromagnetic Junction in the Presence of External Electric Field. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2693-2697	1.5	1	
26	Spin- and valley-dependent electronic band structure and electronic heat capacity of ferromagnetic silicene in the presence of strain, exchange field and Rashba spin-orbit coupling. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 439, 203-212	2.8	15	
25	Optical Absorption of SiC, BN, and BeO Nanosheets in Holstein Model. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2435-2444	1.5	1	
24	Electronic heat capacity and magnetic susceptibility of ferromagnetic silicene sheet under strain. <i>Solid State Communications</i> , 2017 , 250, 84-91	1.6	22	
23	The Effective Mass of Dirac Fermions and Spin-Dependent Thermodynamic Properties of Monolayer Ferromagnetic MoS2 in the Presence of Rashba Spin-Orbit Coupling. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 3137-3141	1.5	2	
22	Controlling Thermodynamic Properties of Ferromagnetic Group-IV Graphene-Like Nanosheets by Dilute Charged Impurity. <i>Communications in Theoretical Physics</i> , 2017 , 67, 569	2.4	4	

21	Orbital electronic heat capacity of hydrogenated monolayer and bilayer graphene. <i>Chinese Physics B</i> , 2017 , 26, 026502	1.2	8
20	The effects of Rashba spinBrbit coupling and Holstein phonons on thermodynamic properties of BN-doped graphene. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750045	1.1	4
19	Orbital magneto-electronic heat capacity of hydrogenated graphene in the presence of dilute charged impurity. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750053	1.1	2
18	Sequence dependency of the thermodynamic properties of long DNA double-strands. <i>RSC Advances</i> , 2017 , 7, 48486-48493	3.7	
17	The Dilute Charged Impurity Effects on Electronic Heat Capacity and Magnetic Susceptibility of Ferromagnetic Silicene Sheet. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 681-689	1.5	1
16	The effects of strain on DC transverse and spin-valley Hall conductivity of ferromagnetic MoS2 and silicene. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 426, 621-628	2.8	22
15	The Effect of Dilute Charged Impurity on the Electronic Heat Capacity and Magnetic Susceptibility of Ferromagnetic MoS2. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 943-949	1.5	2
14	Thermodynamic Properties of Gapped Graphene in the Presence of a Transverse Magnetic Field by Considering Holstein Phonons. <i>Journal of Electronic Materials</i> , 2017 , 46, 747-757	1.9	7
13	Bound states of Dirac fermions in monolayer gapped graphene in the presence of local perturbations. <i>Chinese Physics B</i> , 2016 , 25, 068105	1.2	18
12	Role of Spin Drbit Interaction and Impurity Doping in Thermodynamic Properties of Monolayer MoS2. <i>Journal of Electronic Materials</i> , 2016 , 45, 4958-4965	1.9	23
11	Magnon heat capacity and magnetic susceptibility of the spin Lieb lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 417, 208-213	2.8	18
10	Optical conductivity of the spin Lieb nanolattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 419, 240-244	2.8	6
9	Optical conductivity of AA-stacked bilayer graphene in presence of bias voltage beyond Dirac approximation. <i>Indian Journal of Physics</i> , 2016 , 90, 811-817	1.4	9
8	Dynamical thermoelectric properties of doped AA-stacked bilayer graphene. <i>Superlattices and Microstructures</i> , 2016 , 89, 15-25	2.8	12
7	Dynamical thermal conductivity of the spin Lieb lattice. <i>Solid State Communications</i> , 2016 , 234-235, 14-	2Q .6	13
6	Dynamical thermal conductivity of bilayer graphene in the presence of bias voltage. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 75, 125-135	3	12
5	Controlling dynamical thermal transport of biased bilayer graphene by impurity atoms. <i>AIP Advances</i> , 2016 , 6, 075121	1.5	5
4	Strain effects on the optical conductivity of gapped graphene in the presence of Holstein phonons beyond the Dirac cone approximation. <i>AIP Advances</i> , 2016 , 6, 085008	1.5	22

LIST OF PUBLICATIONS

3	The effects of impurity doping on the optical properties of biased bilayer graphene. <i>Optical Materials</i> , 2016 , 57, 8-13	3.3	9
2	Impurity effects on electrical conductivity of doped bilayer graphene in the presence of a bias voltage. <i>Chinese Physics B</i> , 2016 , 25, 076102	1.2	5
1	Impurity doping effects on the orbital thermodynamic properties of hydrogenated graphene, graphane, in Harrison model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 4062-4069	2.3	20