

Mohsen Yarmohammadi

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

92 papers	836 citations	18 h-index	20 g-index
94 ext. papers	1,031 ext. citations	2.6 avg, IF	5.7 L-index

#	Paper	IF	Citations
92	Role of SpinOrbit Interaction and Impurity Doping in Thermodynamic Properties of Monolayer MoS2. <i>Journal of Electronic Materials</i> , 2016 , 45, 4958-4965	1.9	23
91	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
90	Electronic heat capacity and magnetic susceptibility of ferromagnetic silicene sheet under strain. <i>Solid State Communications</i> , 2017 , 250, 84-91	1.6	22
89	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
88	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
87	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
86	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
85	Tuning thermoelectric transport in phosphorene through a perpendicular magnetic field. <i>Chemical Physics</i> , 2019 , 519, 1-5	2.3	21
84	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
83	Direction-dependent electronic phase transition in magnetic field-induced gated phosphorene. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 465, 646-650	2.8	20
82	Zeeman-magnetic-field-induced magnetic phase transition in doped armchair boron-nitride nanoribbons. <i>Europhysics Letters</i> , 2018 , 122, 17005	1.6	20
81	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
80	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
79	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
78	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
77	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
76	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

75	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, 25573-25585	13	18
74	Perturbation tuning of plasmon modes in semiconductor armchair nanoribbons. <i>Physical Review B</i> , 2018 , 98,	3.3	18
73	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
72	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, 238-245	3.6	17
71	Strain engineering of optical activity in phosphorene.. <i>RSC Advances</i> , 2019 , 9, 19006-19015	3.7	17
70	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
69	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
68	The effect of Rashba spin-orbit coupling on the spin- and valley-dependent electronic heat capacity of silicene. <i>RSC Advances</i> , 2017 , 7, 10650-10659	3.7	13
67	Dynamical thermal conductivity of the spin Lieb lattice. <i>Solid State Communications</i> , 2016 , 234-235, 14-20	2.6	13
66	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
65	The Kubo-Greenwood spin-dependent electrical conductivity of 2D transition-metal dichalcogenides and group-IV materials: A Green's function study. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 57-64	2.8	13
64	Strain-induced electronic phase transition in phosphorene: A Green's function study. <i>Chemical Physics</i> , 2019 , 522, 249-255	2.3	12
63	Dynamical thermoelectric properties of doped AA-stacked bilayer graphene. <i>Superlattices and Microstructures</i> , 2016 , 89, 15-25	2.8	12
62	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
61	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
60	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
59	Optical interband transitions in strained phosphorene. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15133-15141	3.6	11
58	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

57	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
56	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
55	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
54	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
53	Electro-optical properties of a pressure-induced gSiC7 sheet from many-body perturbation theory. <i>Physical Review B</i> , 2019 , 100,	3.3	9
52	The effects of impurity doping on the optical properties of biased bilayer graphene. <i>Optical Materials</i> , 2016 , 57, 8-13	3.3	9
51	Orbital electronic heat capacity of hydrogenated monolayer and bilayer graphene. <i>Chinese Physics B</i> , 2017 , 26, 026502	1.2	8
50	Perturbation-induced magnetic phase transition in bilayer phosphorene. <i>Journal of Applied Physics</i> , 2019 , 125, 213903	2.5	8
49	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, 362-367	7.8	8
48	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
47	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
46	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
45	Optical conductivity of the spin Lieb nanolattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 419, 240-244	2.8	6
44	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
43	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
42	Spin-valley Hall conductivity of doped ferromagnetic silicene under strain. <i>Chinese Physics B</i> , 2017 , 26, 017203	1.2	5
41	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
40	Spin-splitting effects on the interband optical conductivity and activity of phosphorene. <i>Scientific Reports</i> , 2020 , 10, 9201	4.9	5

39	Real-space exciton distribution in strained-siligraphene g-SiC7. <i>Journal of Applied Physics</i> , 2019 , 126, 063104	5
38	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
37	Effective low-energy RKKY interaction in doped topological crystalline insulators. <i>Physical Review B</i> , 2020 , 102,	3.3 5
36	Anisotropic basic electronic properties of strained black phosphorene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114323	3 5
35	Controlling dynamical thermal transport of biased bilayer graphene by impurity atoms. <i>AIP Advances</i> , 2016 , 6, 075121	1.5 5
34	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
33	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
32	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
31	The effects of Rashba spin-orbit 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
30	Blue shift in the interband optical transitions of gated monolayer black phosphorus. <i>Journal of Applied Physics</i> , 2019 , 125, 193101	2.5 4
29	Magneto-EELS of armchair boronitrene nanoribbons. <i>RSC Advances</i> , 2019 , 9, 2829-2835	3.7 4
28	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, 157-163	2.8 4
27	Electric field tuning of the properties of monolayer hexagonal boron phosphide. <i>Journal of Applied Physics</i> , 2020 , 128, 215703	2.5 4
26	Zeeman magnetic field effect on the thermodynamic properties of armchair and zigzag phosphorene. <i>Materials Research Express</i> , 2019 , 6, 015903	1.7 4
25	Spin magnetic susceptibility of ferromagnetic silicene in the presence of Rashba spin-orbit coupling. <i>AIP Advances</i> , 2017 , 7, 035211	1.5 3
24	Triaxial strain engineering of magnetic phase in phosphorene. <i>Journal of Applied Physics</i> , 2019 , 126, 063903	2.3 3
23	Linear interband optical refraction and absorption in strained black phosphorene. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 465301	1.8 3
22	Magnonic heat transport in the Lieb lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 623-628	2.8 3

21	On the intra- and interband plasmon modes in doped armchair graphene nanoribbons. <i>Superlattices and Microstructures</i> , 2018 , 113, 576-584	2.8	3
20	Magnon-impurity interaction effect on the magnonic heat capacity of the Lieb lattice. <i>AIP Advances</i> , 2018 , 8, 125317	1.5	3
19	Magneto-thermodynamic properties of gapped graphene-like structures. <i>Indian Journal of Physics</i> , 2017 , 91, 659-664	1.4	2
18	The Effective Mass of Dirac Fermions and Spin-Dependent Thermodynamic Properties of Monolayer Ferromagnetic MoS ₂ in the Presence of Rashba Spin-Orbit Coupling. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 3137-3141	1.5	2
17	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
16	The Effect of Dilute Charged Impurity on the Electronic Heat Capacity and Magnetic Susceptibility of Ferromagnetic MoS ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 943-949	1.5	2
15	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
14	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
13	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
12	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, 1293-1299	1.5	1
11	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
10	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
9	Electrical conductivity of statically perturbed topological crystalline insulators. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 425301	3	1
8	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
7	Anisotropic ferroelectric distortion effects on the RKKY interaction in topological crystalline insulators. <i>Scientific Reports</i> , 2021 , 11, 5273	4.9	1
6	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
5	Systematic competition between strain and electric field stimuli in tuning EELS of phosphorene. <i>Scientific Reports</i> , 2021 , 11, 3716	4.9	1
4	Dynamic mean-field theory for dense spin systems at infinite temperature. <i>Physical Review Research</i> , 2021 , 3,	3.9	1

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| 3 | The Effect of Exchange Magnetic Field on Spin Magnetic Susceptibility of Monolayer and AB-Stacked Bilayer MoS ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 1905-1913 | 1.5 | o |
| 2 | Sequence dependency of the thermodynamic properties of long DNA double-strands. <i>RSC Advances</i> , 2017 , 7, 48486-48493 | 3.7 | |
| 1 | Electronic Collective Mode Behaviors in Doped and Gated Armchair-Type Graphene Nanoribbons. <i>Plasmonics</i> , 2018 , 13, 1963-1969 | 2.4 | |