

Eduard Gorbar

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,515
citations

257450

24
h-index

345221

36
g-index

64
all docs

64
docs citations

64
times ranked

1072
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypermagnetogenesis from axion inflation: Model-independent estimates. Physical Review D, 2022, 105, .	4.7	17
2	Gap generation and flat band catalysis in dice model with local interaction. Physical Review B, 2021, 103, .	3.2	20
3	Generation of an electromagnetic field nonminimally coupled to gravity during Higgs inflation. Physical Review D, 2021, 104, .	4.7	5
4	Strong suppression of electron convection in Dirac and Weyl semimetals. Physical Review B, 2021, 104, .	3.2	3
5	Stray magnetic field and stability of time-dependent viscous electron flow. Physical Review B, 2021, 104, .	3.2	2
6	Entropy Wave Instability in Dirac and Weyl Semimetals. Physical Review Letters, 2021, 127, 176602.	7.8	1
7	Gauge-field production during axion inflation in the gradient expansion formalism. Physical Review D, 2021, 104, .	4.7	39
8	Superconductivity in Weyl semimetals in a strong pseudomagnetic field. Physical Review B, 2020, 102, .	3.2	2
9	Surface plasmon polaritons in strained Weyl semimetals. Physical Review B, 2020, 102, .	3.2	10
10	Gradient expansion formalism for magnetogenesis in the kinetic coupling model. Physical Review D, 2020, 102, .	4.7	9
11	Schwinger production of scalar particles during and after inflation from the first principles. Physical Review D, 2020, 102, .	4.7	8
12	Fermi Arcs and DC Transport in Nanowires of Dirac and Weyl Semimetals. Annalen Der Physik, 2020, 532, 1900449.	2.4	9
13	Backreaction of electromagnetic fields and the Schwinger effect in pseudoscalar inflation magnetogenesis. Physical Review D, 2019, 100, .	4.7	41
14	Hydrodynamic modes in a magnetized chiral plasma with vorticity. Physical Review D, 2019, 99, .	4.7	14
15	Hydrodynamics of Fermi arcs: Bulk flow and surface collective modes. Physical Review B, 2019, 99, .	3.2	19
16	Electron states for gapped pseudospin-1 fermions in the field of a charged impurity. Physical Review B, 2019, 99, .	3.2	54
17	Kinetic approach to the Schwinger effect during inflation. Physical Review D, 2019, 100, .	4.7	15
18	Inter-node superconductivity in strained Weyl semimetals. Journal of Physics Condensed Matter, 2019, 31, 055602.	1.8	6

#	ARTICLE	IF	CITATIONS
19	Consistent hydrodynamic theory of chiral electrons in Weyl semimetals. Physical Review B, 2018, 97, .	3.2	27
20	Electronic states of pseudospin-1 fermions in dice lattice ribbon. Low Temperature Physics, 2018, 44, 1313-1324.	0.6	24
21	Influence of backreaction of electric fields and Schwinger effect on inflationary magnetogenesis. Physical Review D, 2018, 98, .	4.7	37
22	p -wave superfluidity in mixtures of ultracold Fermi and spinor Bose gases. Physical Review A, 2018, 98, .	2.5	4
23	Electron states in the field of charged impurities in two-dimensional Dirac systems (Review Article). Low Temperature Physics, 2018, 44, 371-400.	0.6	15
24	Hydrodynamic electron flow in a Weyl semimetal slab: Role of Chern-Simons terms. Physical Review B, 2018, 97, .	3.2	16
25	Anomalous transport properties of Dirac and Weyl semimetals (Review Article). Low Temperature Physics, 2018, 44, 487-505.	0.6	44
26	Non-Abelian properties of electron wave packets in the Dirac semimetals $\langle \mathbf{A} \cdot \nabla \rangle$ (\mathbf{T}_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (xml:ns="http://www.w3.org/1998/Math/MathML") \rangle $\langle \mathbf{A} \cdot \nabla \rangle$	3.2	7
27	Physical Review B, 2018, 98, . Nonlocal transport in Weyl semimetals in the hydrodynamic regime. Physical Review B, 2018, 98, .	3.2	14
28	Electronic Properties of Strained Double-Weyl Systems. Annalen Der Physik, 2018, 530, 1800219.	2.4	7
29	Broken symmetry states in bilayer graphene in electric and in-plane magnetic fields. Physical Review B, 2017, 95, .	3.2	3
30	Consistent Chiral Kinetic Theory in Weyl Materials: Chiral Magnetic Plasmons. Physical Review Letters, 2017, 118, 127601.	7.8	76
31	Chiral magnetic plasmons in anomalous relativistic matter. Physical Review B, 2017, 95, .	3.2	32
32	Pseudomagnetic helicons. Physical Review B, 2017, 95, .	3.2	26
33	Coulomb center instability in bilayer graphene. Physical Review B, 2017, 96, .	3.2	5
34	Anomalous thermoelectric phenomena in lattice models of multi-Weyl semimetals. Physical Review B, 2017, 96, .	3.2	36
35	Origin of Bardeen-Zumino current in lattice models of Weyl semimetals. Physical Review B, 2017, 96, .	3.2	22
36	Wigner function and kinetic phenomena for chiral plasma in a strong magnetic field. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17

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37	Chiral response in lattice models of Weyl materials. Physical Review B, 2017, 96, .	3.2	12
38	Pseudomagnetic lens as a valley and chirality splitter in Dirac and Weyl materials. Physical Review B, 2017, 95, .	3.2	16
39	Second-order chiral kinetic theory: Chiral magnetic and pseudomagnetic waves. Physical Review B, 2017, 95, .	3.2	29
40	Magnetogenesis during inflation and preheating in the Starobinsky model. Physical Review D, 2017, 95, .	4.7	24
41	Second-order dissipative hydrodynamics for plasma with chiral asymmetry and vorticity. Physical Review D, 2017, 95, .	4.7	22
42	Screening of a charged impurity in graphene in a magnetic field. Physical Review B, 2016, 94, .	3.2	19
43	Origin of dissipative Fermi arc transport in Weyl semimetals. Physical Review B, 2016, 93, .	3.2	63
44	Anomalous Maxwell equations for inhomogeneous chiral plasma. Physical Review D, 2016, 93, .	4.7	54
45	Electrified magnetic catalysis in three-dimensional topological insulators. Physical Review B, 2016, 94, .	3.2	6
46	Anomaly-driven inverse cascade and inhomogeneities in a magnetized chiral plasma in the early Universe. Physical Review D, 2016, 94, .	4.7	24
47	Surface Fermi arcs in $Weyl$ semimetals		

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55	Chiral anomaly, dimensional reduction, and magnetoresistivity of Weyl and Dirac semimetals. Physical Review B, 2014, 89, .	3.2	117
56	Chiral asymmetry in QED matter in a magnetic field. Physical Review D, 2013, 88, .	4.7	12
57	Gap generation in ABC-stacked multilayer graphene: Screening versus band flattening. Physical Review B, 2013, 88, .	3.2	12
58	Engineering Weyl nodes in Dirac semimetals by a magnetic field. Physical Review B, 2013, 88, .	3.2	55
59	Radiative corrections to chiral separation effect in QED. Physical Review D, 2013, 88, .	4.7	53
60	Broken symmetry $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow} \langle \text{mml:mi} \frac{1}{2} \langle \text{mml:mi} \langle \text{mml:mo} = \langle \text{mml:mo} \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:math} \rangle \text{quantum} \text{Hall states in bilayer graphene: Landau level mixing and dynamical screening. Physical Review B, 2012, 85, .$	3.2	37
61	Magneto-optical and optical probes of gapped ground states of bilayer graphene. Physical Review B, 2012, 86, .	3.2	24
62	Coexistence and competition of nematic and gapped states in bilayer graphene. Physical Review B, 2012, 86, .	3.2	18
63	Chiral asymmetry of the Fermi surface in dense relativistic matter in a magnetic field. Physical Review C, 2009, 80, .	2.9	51
64	Dynamics in the quantum Hall effect and the phase diagram of graphene. Physical Review B, 2008, 78, .	3.2	56