

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 | Chiral anomaly, dimensional reduction, and magnetoresistivity of Weyl and Dirac semimetals. Physical Review B, 2014, 89, . | 3.2 | 117 |
| 2 | Consistent Chiral Kinetic Theory in Weyl Materials: Chiral Magnetic Plasmons. Physical Review Letters, 2017, 118, 127601. | 7.8 | 76 |
| 3 | Origin of dissipative Fermi arc transport in Weyl semimetals. Physical Review B, 2016, 93, . | 3.2 | 63 |
| 4 | Dynamics in the quantum Hall effect and the phase diagram of graphene. Physical Review B, 2008, 78, . | 3.2 | 56 |
| 5 | Engineering Weyl nodes in Dirac semimetals by a magnetic field. Physical Review B, 2013, 88, . | 3.2 | 55 |
| 6 | Anomalous Maxwell equations for inhomogeneous chiral plasma. Physical Review D, 2016, 93, . | 4.7 | 54 |
| 7 | Electron states for gapped pseudospin-1 fermions in the field of a charged impurity. Physical Review B, 2019, 99, . | 3.2 | 54 |
| 8 | Radiative corrections to chiral separation effect in QED. Physical Review D, 2013, 88, . | 4.7 | 53 |
| 9 | Chiral asymmetry of the Fermi surface in dense relativistic matter in a magnetic field. Physical Review C, 2009, 80, . | 2.9 | 51 |
| 10 | Anomalous transport properties of Dirac and Weyl semimetals (Review Article). Low Temperature Physics, 2018, 44, 487-505. | 0.6 | 44 |
| 11 | Backreaction of electromagnetic fields and the Schwinger effect in pseudoscalar inflation magnetogenesis. Physical Review D, 2019, 100, . | 4.7 | 41 |
| 12 | Gauge-field production during axion inflation in the gradient expansion formalism. Physical Review D, 2021, 104, . | 4.7 | 39 |
| 13 | Dirac semimetals $\frac{A^3}{3}$ Broken symmetry $\frac{1}{2}$ Physical Review B, 2015, 91, . | 3.2 | 38 |
| 14 | Quantum Hall states in bilayer graphene: Landau level mixing and dynamical screening. Physical Review B, 2012, 85, . | 3.2 | 37 |
| 15 | Influence of backreaction of electric fields and Schwinger effect on inflationary magnetogenesis. Physical Review D, 2018, 98, . | 4.7 | 37 |
| 16 | Anomalous thermoelectric phenomena in lattice models of multi-Weyl semimetals. Physical Review B, 2017, 96, . | 3.2 | 36 |
| 17 | Chiral magnetic plasmons in anomalous relativistic matter. Physical Review B, 2017, 95, . | 3.2 | 32 |
| 18 | Second-order chiral kinetic theory: Chiral magnetic and pseudomagnetic waves. Physical Review B, 2017, 95, . | 3.2 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Consistent hydrodynamic theory of chiral electrons in Weyl semimetals. Physical Review B, 2018, 97, . | 3.2 | 27 |
| 20 | Pseudomagnetic helicons. Physical Review B, 2017, 95, . | 3.2 | 26 |
| 21 | Surface Fermi arcs in Weyl semimetals | | |

[Redacted]

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[Redacted]

[Redacted]

[Redacted]

[Redacted]

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | Kinetic approach to the Schwinger effect during inflation. Physical Review D, 2019, 100, . | 4.7 | 15 |
| 39 | Nonlocal transport in Weyl semimetals in the hydrodynamic regime. Physical Review B, 2018, 98, . | 3.2 | 14 |
| 40 | Hydrodynamic modes in a magnetized chiral plasma with vorticity. Physical Review D, 2019, 99, . | 4.7 | 14 |
| 41 | Chiral asymmetry in QED matter in a magnetic field. Physical Review D, 2013, 88, . | 4.7 | 12 |
| 42 | Gap generation in ABC-stacked multilayer graphene: Screening versus band flattening. Physical Review B, 2013, 88, . | 3.2 | 12 |
| 43 | Quantum oscillations as a probe of interaction effects in Weyl semimetals in a magnetic field. Physical Review B, 2014, 90, . | 3.2 | 12 |
| 44 | Chiral response in lattice models of Weyl materials. Physical Review B, 2017, 96, . | 3.2 | 12 |
| 45 | Supercriticality of novel type induced by electric dipole in gapped graphene. Physical Review B, 2015, 92, . | 3.2 | 11 |
| 46 | Surface plasmon polaritons in strained Weyl semimetals. Physical Review B, 2020, 102, . | 3.2 | 10 |
| 47 | Gradient expansion formalism for magnetogenesis in the kinetic coupling model. Physical Review D, 2020, 102, . | 4.7 | 9 |
| 48 | Fermi Arcs and DC Transport in Nanowires of Dirac and Weyl Semimetals. Annalen Der Physik, 2020, 532, 1900449. | 2.4 | 9 |
| 49 | Chiral asymmetry in cold QED plasma in a strong magnetic field. Physical Review D, 2014, 90, . | 4.7 | 8 |
| 50 | Schwinger production of scalar particles during and after inflation from the first principles. Physical Review D, 2020, 102, . | 4.7 | 8 |
| 51 | Non-Abelian properties of electron wave packets in the Dirac semimetals. Physical Review B, 2018, 98, . | 3.2 | 7 |
| 52 | Electronic Properties of Strained Double-Weyl Systems. Annalen Der Physik, 2018, 530, 1800219. | 2.4 | 7 |
| 53 | Gap generation and phase diagram in strained graphene in a magnetic field. Physical Review B, 2015, 91, . | 3.2 | 6 |
| 54 | Electrified magnetic catalysis in three-dimensional topological insulators. Physical Review B, 2016, 94, . | 3.2 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Inter-node superconductivity in strained Weyl semimetals. Journal of Physics Condensed Matter, 2019, 31, 055602. | 1.8 | 6 |
| 56 | Coulomb center instability in bilayer graphene. Physical Review B, 2017, 96, . | 3.2 | 5 |
| 57 | Generation of an electromagnetic field nonminimally coupled to gravity during Higgs inflation. Physical Review D, 2021, 104, . | 4.7 | 5 |
| 58 | $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave superfluidity in mixtures of ultracold Fermi and spinor Bose gases. Physical Review A, 2018, 98, . | 2.5 | 4 |
| 59 | Broken symmetry states in bilayer graphene in electric and in-plane magnetic fields. Physical Review B, 2017, 95, . | 3.2 | 3 |
| 60 | Strong suppression of electron convection in Dirac and Weyl semimetals. Physical Review B, 2021, 104, . | 3.2 | 3 |
| 61 | Superconductivity in Weyl semimetals in a strong pseudomagnetic field. Physical Review B, 2020, 102, . | 3.2 | 2 |
| 62 | Stray magnetic field and stability of time-dependent viscous electron flow. Physical Review B, 2021, 104, . | 3.2 | 2 |
| 63 | Dynamical polarization in ABC-stacked multilayer graphene in a magnetic field. Physical Review B, 2014, 90, . | 3.2 | 1 |
| 64 | Entropy Wave Instability in Dirac and Weyl Semimetals. Physical Review Letters, 2021, 127, 176602. | 7.8 | 1 |