

Milan Orlita

List of Publications by Year in descending order

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157
times ranked

6435
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, optical and electronic properties of the wide bandgap topological insulator Bi _{1.1} Sb _{0.9} Te ₂ S. Journal of Alloys and Compounds, 2022, 890, 161824.	5.5	5
2	Pentacoordinate cobalt(<i>ii</i>) single ion magnets with pendant alkyl chains: shall we go for chloride or bromide?. Inorganic Chemistry Frontiers, 2022, 9, 1179-1194.	6.0	15
3	Addressing shape and extent of Weyl cones in TaAs by Landau level spectroscopy. Physical Review B, 2022, 105, .	3.2	7
4	Interaction between interface and massive states in multivalley topological heterostructures. Physical Review Research, 2022, 4, .	3.6	3
5	Lorentzâ€Boostâ€Driven Magnetoâ€Optics in a Dirac Nodalâ€Line Semimetal. Advanced Science, 2022, 9, .	11.2	7
6	Landau level spectroscopy of the PbSnSe topological crystalline insulator. Physical Review B, 2021, 103, .	3.2	5
7	Polaronic interaction in a single modulation-doped GaAs quantum well with the Feynman-Hellwarth-Iddings-Platzman approximation. Physical Review B, 2021, 104, .	3.2	1
8	Optical Studies and Transmission Electron Microscopy of HgCdTe Quantum Well Heterostructures for Very Long Wavelength Lasers. Nanomaterials, 2021, 11, 1855.	4.1	6
9	Ultrafast Plasmon Thermalization in Epitaxial Graphene Probed by Timeâ€Resolved THz Spectroscopy. Advanced Functional Materials, 2021, 31, 2105763.	14.9	8
10	Anomalous temperature dependence of the effective mass in p -type Bi_2Te_3 . Physical Review B, 2021, 104, .	3.2	0
11	Magnon polarons in the van der Waals antiferromagnet Fe_2P . Physical Review B, 2021, 104, .	3.2	0
12	Optical conductivity signatures of open Dirac nodal lines. Physical Review B, 2021, 104, .	3.2	6
13	Spatially resolved optical spectroscopy in extreme environment of low temperature, high magnetic fields and high pressure. Review of Scientific Instruments, 2021, 92, 123909.	1.3	2
14	Landau level spectroscopy of Bi_2Te_3 . Physical Review B, 2020, 102, .	3.2	0
15	Distinguishing the gapped and Weyl semimetal scenario in ZrTe ₅ : Insights from an effective two-band model. Physical Review B, 2020, 102, .	3.2	9
16	Probing intraband excitations in ZrTe ₅ : A high-pressure infrared and transport study. Physical Review B, 2020, 101, .	3.2	0
17	Magneto-Optics of a Weyl Semimetal beyond the Conical Band Approximation: Case Study of TaP. Physical Review Letters, 2020, 124, 176402.	7.8	25
18	Flipping exciton angular momentum with chiral phonons in MoSe ₂ /WSe ₂ heterobilayers. 2D Materials, 2020, 7, 041002.	4.4	24

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19	Effects of the Electron–Electron Interaction in the Magneto-Absorption Spectra of HgTe/CdHgTe Quantum Wells with an Inverted Band Structure. JETP Letters, 2020, 112, 508-512.	1.4	1
20	Suppressed Auger scattering and tunable light emission of Landau-quantized massless Kane electrons. Nature Photonics, 2019, 13, 783-787.	31.4	23
21	Magneto spectroscopy of double HgTe/CdHgTe QWs with inverted band structure in high magnetic fields up to 30 T. Opto-electronics Review, 2019, 27, 213-218.	2.4	7
22	Origin of the enhanced ferroelectricity in multiferroic SmMn2O5. Physical Review B, 2019, 100, .	3.2	7
23	Determination of the electronic structure of a dinuclear dysprosium single molecule magnet without symmetry idealization. Chemical Science, 2019, 10, 2101-2110.	7.4	48
24	Two-Dimensional Conical Dispersion in $ZrTe_5$ Evidenced by Optical Spectroscopy. Physical Review Letters, 2019, 122, 217402.	7.8	50
25	Magnetoabsorption in HgCdTe/CdHgTe Quantum Wells in Tilted Magnetic Fields. JETP Letters, 2019, 109, 191-197.	1.4	2
26	Limits of validity of the Rashba model in BiTeI: High-field magneto-optical study. Physical Review B, 2019, 100, .	3.2	1
27	Spectroscopic Determination of the Electronic Structure of a Uranium Single-Ion Magnet. Chemistry - A European Journal, 2019, 25, 1758-1766.	3.3	23
28	Landau level spectroscopy of valence bands in HgTe quantum wells: effects of symmetry lowering. Journal of Physics Condensed Matter, 2019, 31, 145501.	1.8	13
29	Study of crystal-field excitations and infrared active phonons in TbMnO3. Journal of Physics Condensed Matter, 2018, 30, 175602.	1.8	8
30	Energy scale of Dirac electrons in Cd3As2. Physical Review B, 2018, 97, .	3.2	16
31	Nonuniform carrier density in $Cd_{1-x}Mn_xTe$ evidenced by optical spectroscopy. Physical Review B, 2018, 97, .	3.2	12
32	Raman scattering of graphene-based systems in high magnetic fields. Journal of Raman Spectroscopy, 2018, 49, 146-156.	2.5	17
33	Probing the role of Nd ³⁺ ions in the weak multiferroic character of NdMn2O5 by optical spectroscopies. Physical Review B, 2018, 98, .	3.2	6
34	Polarization-Sensitive Fourier-Transform Spectroscopy of HgTe/CdHgTe Quantum Wells in the Far Infrared Range in a Magnetic Field. JETP Letters, 2018, 108, 329-334.	1.4	4
35	A linear cobalt(II) complex with maximal orbital angular momentum from a non-Aufbau ground state. Science, 2018, 362, .	12.6	254
36	Avoided level crossing at the magnetic field induced topological phase transition due to spin-orbital mixing. Physical Review B, 2018, 98, .	3.2	9

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37	Magneto-optics of HgTe/CdTe Quantum Wells with Giant Rashba Splitting in Magnetic Fields up to 34 T. Semiconductors, 2018, 52, 1386-1391.	0.5	4
38	Flat electronic bands in long sequences of rhombohedral-stacked graphene. Physical Review B, 2018, 97, .	3.2	46
39	Magneto-optical Studies and Stimulated Emission in Narrow Gap HgTe/CdHgTe Structures in the Very Long Wavelength Infrared Range. Semiconductors, 2018, 52, 436-441.	0.5	0
40	Band splitting in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ measured by magnetotransport. Physical Review B, 2018, 97, .	3.3	18
41	3D Dirac semimetal $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$: A review of material properties. Physical Review Materials, 2018, 2, .	2.3	36
42	BiTeCl and BiTeBr: A comparative high-pressure optical study. Physical Review B, 2017, 95, .	3.2	8
43	Four-Wave Mixing in Landau-Quantized Graphene. Nano Letters, 2017, 17, 2184-2188.	9.1	25
44	The saturation of interband Faraday rotation in Bi_2Se_3 . Europhysics Letters, 2017, 117, 47006.	2.0	0
45	Determination of zero-field splitting in Co^{2+} halide complexes with magnetic and far-IR measurements. Dalton Transactions, 2017, 46, 7408-7411.	3.3	19
46	Determination of the energy band gap of Bi_2Se_3 . Scientific Reports, 2017, 7, 6891.	3.3	41
47	On the band spectrum in p-type HgTe/CdHgTe heterostructures and its transformation under temperature variation. Semiconductors, 2017, 51, 1531-1536.	0.5	8
48	From Positive to Negative Zero-Field Splitting in a Series of Strongly Magnetically Anisotropic Mononuclear Metal Complexes. Inorganic Chemistry, 2017, 56, 14809-14822.	4.0	42
49	Interband absorption edge in the topological insulators Bi_2Te_3 and Bi_2Se_3 . Physical Review B, 2017, 96, .	2.2	15
50	Magnetoabsorption of Dirac Fermions in InAs/GaSb/InAs ϵ -Three-Layer ϵ -Gapless Quantum Wells. JETP Letters, 2017, 106, 727-732.	1.4	5
51	Cyclotron resonance of Kane electrons observed in Cd_3As_2 . , 2017, , .		0
52	Temperature-driven massless fermions in HgCdTe heterostructures. , 2017, , .		0
53	Temperature-driven massless Kane fermions in HgCdTe crystals. , 2016, , .		2
54	Strong interband Faraday rotation in 3D topological insulator Bi_2Se_3 . Scientific Reports, 2016, 6, 19087.	3.3	11

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55	Rhombohedral Multilayer Graphene: A Magneto-Raman Scattering Study. Nano Letters, 2016, 16, 3710-3716.	9.1	51
56	Hole spin injection from a GaMnAs layer into GaAs/AlAs/InGaAs resonant tunneling diodes. Journal Physics D: Applied Physics, 2016, 49, 165104.	2.8	0
57	Magneto-Optical Signature of Massless Kane Electrons in $Cd_{1-x}Mn_xTe$. Physical Review Letters, 2016, 117, 136401.	7.8	93
58	Hole Fermi surface in Bi ₂ Se ₃ probed by quantum oscillations. Physical Review B, 2016, 93, .	3.2	9
59	Magneto-optical spectroscopy of double HgTe/CdHgTe quantum wells. Semiconductors, 2016, 50, 1532-1538.	0.5	9
60	Temperature-driven massless Kane fermions in HgCdTe crystals. Nature Communications, 2016, 7, 12576.	12.8	73
61	Granular superconductivity and magnetic-field-driven recovery of macroscopic coherence in a cuprate/manganite multilayer. Physical Review B, 2016, 94, .	3.2	11
62	New Selective Synthesis of Dithiaboroles as a Viable Pathway to Functionalized Benzenedithiolenes and Their Complexes. Inorganic Chemistry, 2016, 55, 6186-6194.	4.0	16
63	Micro-Raman and infrared studies of multiferroic TbMn ₂ O ₅ . Journal of Physics Condensed Matter, 2016, 28, 055901.	1.8	9
64	Multitechnique investigation of Dy ₃ implications for coupled lanthanide clusters. Chemical Science, 2016, 7, 4347-4354.	7.4	70
65	Multiple magneto-phonon resonances in graphene. 2D Materials, 2016, 3, 015004.	4.4	8
66	A four-coordinate cobalt(II) single-ion magnet with coercivity and a very high energy barrier. Nature Communications, 2016, 7, 10467.	12.8	374
67	SU(4) symmetry breaking revealed by magneto-optical spectroscopy in epitaxial graphene. Physical Review B, 2015, 91, .	3.2	2
68	Spin polarization of carriers in resonant tunneling devices containing InAs self-assembled quantum dots. Superlattices and Microstructures, 2015, 88, 574-581.	3.1	5
69	Hyperfine coupling and spin polarization in the bulk of the topological insulator Bi ₂ Te ₃ . Physical Review B, 2015, 91, .	7.8	52
70	Landau Level Spectroscopy of Electron-Electron Interactions in Graphene. Physical Review Letters, 2015, 114, 126804.	7.8	52
71	Anticrossing of Landau levels in HgTe/CdHgTe (013) quantum wells with an inverted band structure. JETP Letters, 2015, 100, 790-794.	1.4	26
72	Magneto-Optics of Massive Dirac Fermions in Bulk Bi ₂ Te ₃ . Physical Review Letters, 2015, 114, 186401.	7.8	65

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73	Infrared magneto-spectroscopy of two-dimensional and three-dimensional massless fermions: A comparison. Journal of Applied Physics, 2015, 117, 112803.	2.5	7
74	Effect of electron-electron interaction on cyclotron resonance in high-mobility InAs/AlSb quantum wells. Journal of Applied Physics, 2015, 117, 112813.	2.5	16
75	Carrier dynamics in Landau-quantized graphene featuring strong Auger scattering. Nature Physics, 2015, 11, 75-81.	16.7	79
76	A micro-magneto-Raman scattering study of graphene on a bulk graphite substrate. Europhysics Letters, 2014, 108, 27011.	2.0	6
77	Intraband carrier dynamics in Landau-quantized multilayer epitaxial graphene. New Journal of Physics, 2014, 16, 123021.	2.9	17
78	Spin and lattice vibrations of CaMnO_7 in the THz range. , 2014, , .		0
79	Plasmonic terahertz detectors based on a high-electron mobility GaAs/AlGaAs heterostructure. Journal of Applied Physics, 2014, 115, 214503.	2.5	72
80	Structural and magnetic confinement of holes in the spin-polarized emission of coupled quantum ring quantum dot chains. Physical Review B, 2014, 90, .	3.2	10
81	Optical Magneto-Spectroscopy of Graphene-Based Systems. Nanoscience and Technology, 2014, , 113-140.	1.5	0
82	Spectroscopic determination of crystal field splittings in lanthanide double deckers. Chemical Science, 2014, 5, 3287.	7.4	111
83	Observation of three-dimensional massless Kane fermions in a zinc-blende crystal. Nature Physics, 2014, 10, 233-238.	16.7	190
84	Possible coupling between magnons and phonons in multiferroic CaMnO_7 . Physical Review B, 2014, 90, .	3.2	18
85	Electrical Switch to the Resonant Magneto-Phonon Effect in Graphene. Nano Letters, 2014, 14, 1460-1466.	9.1	12
86	Graphene in high magnetic fields. Comptes Rendus Physique, 2013, 14, 78-93.	0.9	16
87	Electromagnon in ferrimagnetic Fe_2O_3 nanograin ceramics. Physical Review B, 2013, 88, 041403.	3.2	13
88	Study of crystal-field excitations and infrared active phonons in the multiferroic hexagonal DyMnO_3 . Journal of Physics Condensed Matter, 2013, 25, 475403.	1.8	7
89	Magneto-spectroscopy of HgTe based topological insulators. , 2013, , .		0
90	Time-resolved spectroscopy on epitaxial graphene in the infrared spectral range: relaxation dynamics and saturation behavior. Journal of Physics Condensed Matter, 2013, 25, 054202.	1.8	59

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91	Cyclotron resonance in HgCdTe-based heterostructures in strong magnetic fields. Journal of Physics: Conference Series, 2013, 461, 012038.	0.4	1
92	Terahertz magnetospectroscopy of narrow-gap HgCdTe-based structures. , 2013, , .		0
93	Magnetotransport in graphene on silicon side of SiC. Journal of Physics: Conference Series, 2013, 456, 012038.	0.4	0
94	Probing the band structure of quadri-layer graphene with magneto-phonon resonance. New Journal of Physics, 2012, 14, 095007.	2.9	16
95	Magneto-optical investigation of two-dimensional gases in n-type resonant tunneling diodes. Semiconductor Science and Technology, 2012, 27, 015018.	2.0	3
96	From laterally modulated two-dimensional electron gas towards artificial graphene. New Journal of Physics, 2012, 14, 053002.	2.9	59
97	Magnetospectroscopy of 2D HgTe based topological insulators. , 2012, , .		0
98	Polarization-resolved magneto-Raman scattering of graphenelike domains on natural graphite. Physical Review B, 2012, 85, .	3.2	33
99	Infrared magnetospectroscopy of graphite in tilted fields. Physical Review B, 2012, 86, .	3.2	8
100	Publisher's Note: Resonant Excitation of Graphene Phonon and Intra-Landau-Level Excitons in Magneto-Optical Spectroscopy [Phys. Rev. Lett. 108 , 247401 (2012)]. Physical Review Letters, 2012, 108, .	7.8	0
101	Role of the apical oxygen in the low-temperature magnetoelectric effect in RMnO ₃ (R = Ho and Lu). Physical Review B, 2012, 85, .	3.2	17
102	Resonant Excitation of Graphene Phonon and Intra-Landau-Level Excitons in Magneto-Optical Spectroscopy. Physical Review Letters, 2012, 108, 247401.	7.8	11
103	Circular dichroism of magnetophonon resonance in doped graphene. Physical Review B, 2012, 86, .	3.2	21
104	Classical to quantum crossover of the cyclotron resonance in graphene: a study of the strength of intraband absorption. New Journal of Physics, 2012, 14, 095008.	2.9	24
105	Magneto-optical studies of phonon dispersion in epitaxially strained EuTiO ₃ thin films deposited on (001)(LaAlO ₃) _{Tj} ETQq1 1 0.784314 rgBT /Over	3.2	21
106	Cyclotron resonance in HgTe/CdTe-based heterostructures in high magnetic fields. Nanoscale Research Letters, 2012, 7, 534.	5.7	47
107	Magnetospectroscopy of two-dimensional HgTe-based topological insulators around the critical thickness. Physical Review B, 2012, 86, .	3.2	106
108	Cyclotron Motion in the Vicinity of a Lifshitz Transition in Graphite. Physical Review Letters, 2012, 108, 017602.	7.8	25

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109	Intrinsic Terahertz Plasmons and Magnetoplasmons in Large Scale Monolayer Graphene. Nano Letters, 2012, 12, 2470-2474.	9.1	224
110	Nonlinear transmission dynamics in graphene close to the Dirac point. , 2011, , .		0
111	Fine structure of zero-mode Landau levels in HgTe/HgxCd1-xTe quantum wells. Physical Review B, 2011, 83, .	3.2	56
112	Electronic excitations and electron-phonon coupling in bulk graphite through Raman scattering in high magnetic fields. Physical Review B, 2011, 84, .	3.2	33
113	Carrier Relaxation in Epitaxial Graphene Photoexcited Near the Dirac Point. Physical Review Letters, 2011, 107, 237401.	7.8	269
114	High-field magnetotransmission investigation of natural graphite. Physical Review B, 2011, 83, .	3.2	11
115	Circular polarization in a non-magnetic resonant tunneling device. Nanoscale Research Letters, 2011, 6, 101.	5.7	2
116	Study of crystal-field excitations and Raman active phonons in o-DyMnO3. Journal of Magnetism and Magnetic Materials, 2011, 323, 1104-1108.	2.3	13
117	Magneto-Raman Scattering of Graphene on Graphite: Electronic and Phonon Excitations. Physical Review Letters, 2011, 107, 036807.	7.8	77
118	Carrier Scattering from Dynamical Magnetoconductivity in Quasineutral Epitaxial Graphene. Physical Review Letters, 2011, 107, 216603.	7.8	57
119	Magneto-optics of bilayer inclusions in multilayered epitaxial graphene on the carbon face of SiC. Physical Review B, 2011, 83, .	3.2	34
120	Spin injection from two-dimensional electron and hole gases in resonant tunneling diodes. Applied Physics Letters, 2011, 99, 233507.	3.3	11
121	Time resolved spectroscopy on quantum dots and graphene at the FELBE free-electron laser. Proceedings of SPIE, 2011, , .	0.8	0
122	Electronic properties of epitaxial graphene. International Journal of Nanotechnology, 2010, 7, 383.	0.2	12
123	Splitting of Cyclotron Resonance Line in InAs/AlSb QW Heterostructures in High Magnetic Fields: Effects of Electron-Electron and Electron-Phonon Interaction. Journal of Low Temperature Physics, 2010, 159, 197-202.	1.4	22
124	Anisotropic Magnetoresistance of GaMnAs Ferromagnetic Semiconductors. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1161-1163.	1.8	3
125	Using magnetotransport to determine the spin splitting in graphite. Physical Review B, 2010, 81, .	3.2	12
126	Systematic Study of Mn-Doping Trends in Optical Properties of (Ga,Mn)As. Physical Review Letters, 2010, 105, 227201.	7.8	45

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127	SchneideretÅal.Reply:. Physical Review Letters, 2010, 104, .	7.8	7
128	Electron-phonon interactions in a single modulation-doped GaInAs quantum well. Europhysics Letters, 2010, 92, 37002.	2.0	5
129	Dirac electronic states in graphene systems: optical spectroscopy studies. Semiconductor Science and Technology, 2010, 25, 063001.	2.0	158
130	Thermal Conductivity of Graphene in Corbino Membrane Geometry. ACS Nano, 2010, 4, 1889-1892.	14.6	349
131	Quasiclassical cyclotron resonance of Dirac fermions in highly doped graphene. Physical Review B, 2010, 82, .	3.2	86
132	Measurement of the infrared transmission through a single doped GaAs quantum well in an external magnetic field: Evidence for polaron effects. Physical Review B, 2009, 80, .	3.2	5
133	Consistent Interpretation of the Low-Temperature Magnetotransport in Graphite Using the Slonczewski-Weiss-McClure 3D Band-Structure Calculations. Physical Review Letters, 2009, 102, 166403.	7.8	60
134	Epitaxial Graphene: Designing a New Electronics Material. ECS Transactions, 2009, 19, 95-105.	0.5	0
135	Magneto-transmission of multi-layer epitaxial graphene and bulk graphite: A comparison. Solid State Communications, 2009, 149, 1128-1131.	1.9	11
136	Nd 3+ crystal-field study of weakly doped Nd 1 \hat{a} x Ca x MnO 3. Journal of Magnetism and Magnetic Materials, 2009, 321, 3607-3610.	2.3	7
137	Publisherâ€™s Note: How Perfect Can Graphene Be? [Phys. Rev. Lett.103, 136403 (2009)]. Physical Review Letters, 2009, 103, .	7.8	6
138	How Perfect Can Graphene Be?. Physical Review Letters, 2009, 103, 136403.	7.8	206
139	Graphite from the Viewpoint of Landau Level Spectroscopy: An Effective Graphene Bilayer and Monolayer. Physical Review Letters, 2009, 102, 166401.	7.8	85
140	Tuning the Electron-Phonon Coupling in Multilayer Graphene with Magnetic Fields. Physical Review Letters, 2009, 103, 186803.	7.8	85
141	Temperature dependence of indirect-exciton luminescence in in-plane magnetic field. Journal of Luminescence, 2008, 128, 1873-1875.	3.1	0
142	Electron dynamics in superlattices subject to crossed magnetic and electric fields. Microelectronics Journal, 2008, 39, 628-630.	2.0	1
143	High-Energy Limit of Massless Dirac Fermions in Multilayer Graphene using Magneto-Optical Transmission Spectroscopy. Physical Review Letters, 2008, 100, 087401.	7.8	111
144	Approaching the Dirac Point in High-Mobility Multilayer Epitaxial Graphene. Physical Review Letters, 2008, 101, 267601.	7.8	560

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145	Magneto-transmission as a probe of Dirac fermions in bulk graphite. Journal of Physics Condensed Matter, 2008, 20, 454223.	1.8	16
146	Dirac Fermions at the π Point of Graphite: Magnetotransmission Studies. Physical Review Letters, 2008, 100, 136403.	7.8	73
147	Electronic structure of unidirectional superlattices in crossed electric and magnetic fields and related terahertz oscillations. Physical Review B, 2007, 76, .	3.2	3
148	Photoluminescence of n-doped double quantum well electron subbands under influence of in-plane magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 284-287.	2.7	2
149	Tunable terahertz oscillations in superlattices subject to an in-plane magnetic field. Physical Review B, 2006, 74, .	3.2	4
150	Luminescence of indirect excitons in high in-plane magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 30, 1-6.	2.7	4
151	Luminescence of double quantum wells subject to in-plane magnetic fields. Physical Review B, 2005, 72, .	3.2	13
152	Luminescence of coupled quantum wells: Effects of indirect excitons in high in-plane magnetic fields. Physical Review B, 2004, 70, .	3.2	12
153	Photoluminescence of biased GaAs/Al _x Ga _{1-x} As double quantum wells many-body effects. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 335-339.	2.7	1