Milan Orlita

List of Publications by Year in Descending Order

138 papers	4,534 citations	34 h-index	65 g-index
157 ext. papers	5,179 ext. citations	4.9 avg, IF	5.15 L-index

#	Paper	IF	Citations
138	Structural, optical and electronic properties of the wide bandgap topological insulator Bi1.1Sb0.9Te2S. *Journal of Alloys and Compounds*, **2022**, 890, 161824	5.7	1
137	Magnon polarons in the van der Waals antiferromagnet FePS3. *Physical Review B*, **2021**, 104,	3.3	8
136	Landau level spectroscopy of the PbSnSe topological crystalline insulator. *Physical Review B*, **2021**, 103,	3.3	2
135	Spatially resolved optical spectroscopy in extreme environment of low temperature, high magnetic fields and high pressure.. *Review of Scientific Instruments*, **2021**, 92, 123909	1.7	0
134	Probing intraband excitations in ZrTe5: A high-pressure infrared and transport study. *Physical Review B*, **2020**, 101,	3.3	4
133	Magneto-Optics of a Weyl Semimetal beyond the Conical Band Approximation: Case Study of TaP. *Physical Review Letters*, **2020**, 124, 176402	7.4	12
132	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	1.2	0
131	Flipping exciton angular momentum with chiral phonons in MoSe2/WSe2 heterobilayers. *2D Materials*, **2020**, 7, 041002	5.9	12
130	Landau level spectroscopy of Bi2Te3. *Physical Review B*, **2020**, 102,	3.3	2
129	Distinguishing the gapped and Weyl semimetal scenario in ZrTe5: Insights from an effective two-band model. *Physical Review B*, **2020**, 102,	3.3	5
128	Origin of the enhanced ferroelectricity in multiferroic SmMn2O5. *Physical Review B*, **2019**, 100,	3.3	4
127	Determination of the electronic structure of a dinuclear dysprosium single molecule magnet without symmetry idealization. *Chemical Science*, **2019**, 10, 2101-2110	9.4	35
126	Two-Dimensional Conical Dispersion in ZrTe_{5} Evidenced by Optical Spectroscopy. *Physical Review Letters*, **2019**, 122, 217402	7.4	25
125	Magnetoabsorption in HgCdTe/CdHgTe Quantum Wells in Tilted Magnetic Fields. *JETP Letters*, **2019**, 109, 191-197	1.2	1
124	Suppressed Auger scattering and tunable light emission of Landau-quantized massless Kane electrons. *Nature Photonics*, **2019**, 13, 783-787	33.9	8
123	Magnetospectroscopy 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	5
122	Limits of validity of the Rashba model in BiTeI: High-field magneto-optical study. *Physical Review B*, **2019**, 100,	3.3	1

121	Spectroscopic Determination of the Electronic Structure of a Uranium Single-Ion Magnet. *Chemistry - A European Journal*, **2019**, 25, 1758-1766	4.8	15
120	Landau level spectroscopy of valence bands in HgTe quantum wells: effects of symmetry lowering. *Journal of Physics Condensed Matter*, **2019**, 31, 145501	1.8	10
119	Study of crystal-field excitations and infrared active phonons in TbMnO. *Journal of Physics Condensed Matter*, **2018**, 30, 175602	1.8	3
118	Energy scale of Dirac electrons in Cd3As2. *Physical Review B*, **2018**, 97,	3.3	12
117	Nonuniform carrier density in Cd3As2 evidenced by optical spectroscopy. *Physical Review B*, **2018**, 97,	3.3	12
116	Flat electronic bands in long sequences of rhombohedral-stacked graphene. *Physical Review B*, **2018**, 97,	3.3	29
115	Magnetooptical Studies and Stimulated Emission in Narrow Gap HgTe/CdHgTe Structures in the Very Long Wavelength Infrared Range. *Semiconductors*, **2018**, 52, 436-441	0.7	
114	Band splitting in Cd3As2 measured by magnetotransport. *Physical Review B*, **2018**, 97,	3.3	5
113	3D Dirac semimetal Cd3As2: A review of material properties. *Physical Review Materials*, **2018**, 2,	3.2	53
112	[illegible]HgTe/CdTe [illegible] [illegible]4 [illegible]*Fizika I Tekhnika Poluprovodnikov*, **2018**, 52, 1274	0	0
111	Raman scattering of graphene-based systems in high magnetic fields. *Journal of Raman Spectroscopy*, **2018**, 49, 146-156	2.3	15
110	Probing the role of Nd3+ ions in the weak multiferroic character of NdMn2O5 by optical spectroscopies. *Physical Review B*, **2018**, 98,	3.3	3
109	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	1.2	2
108	A linear cobalt(II) complex with maximal orbital angular momentum from a non-Aufbau ground state. *Science*, **2018**, 362,	33.3	164
107	Avoided level crossing at the magnetic field induced topological phase transition due to spin-orbital mixing. *Physical Review B*, **2018**, 98,	3.3	6
106	Magnetooptics of HgTe/CdTe Quantum Wells with Giant Rashba Splitting in Magnetic Fields up to 34 T. *Semiconductors*, **2018**, 52, 1386-1391	0.7	0
105	BiTeCl and BiTeBr: A comparative high-pressure optical study. *Physical Review B*, **2017**, 95,	3.3	7
104	Four-Wave Mixing in Landau-Quantized Graphene. *Nano Letters*, **2017**, 17, 2184-2188	11.5	16

103	The saturation of interband Faraday rotation in Bi 2 Se 3. *Europhysics Letters*, **2017**, 117, 47006	1.6	
102	Determination of zero-field splitting in Co halide complexes with magnetic and far-IR measurements. *Dalton Transactions*, **2017**, 46, 7408-7411	4.3	13
101	Determination of the energy band gap of BiSe. *Scientific Reports*, **2017**, 7, 6891	4.9	34
100	On the band spectrum in p-type HgTe/CdHgTe heterostructures and its transformation under temperature variation. *Semiconductors*, **2017**, 51, 1531-1536	0.7	5
99	From Positive to Negative Zero-Field Splitting in a Series of Strongly Magnetically Anisotropic Mononuclear Metal Complexes. *Inorganic Chemistry*, **2017**, 56, 14809-14822	5.1	29
98	Interband absorption edge in the topological insulators Bi2(Te1−xSex)3. *Physical Review B*, **2017**, 96,	3.3	18
97	Magnetoabsorption of Dirac Fermions in InAs/GaSb/InAs Three-Layer Gapless Quantum Wells. *JETP Letters*, **2017**, 106, 727-732	1.2	3
96	HgTe/CdHgTe p- *Fizika I Tekhnika Poluprovodnikov*, **2017**, 51, 1588	0	
95	Magneto-Optical Signature of Massless Kane Electrons in Cd_{3}As_{2}. *Physical Review Letters*, **2016**, 117, 136401	7.4	66
94	Hole Fermi surface in Bi2Se3 probed by quantum oscillations. *Physical Review B*, **2016**, 93,	3.3	8
93	Magnetospectroscopy of double HgTe/CdHgTe quantum wells. *Semiconductors*, **2016**, 50, 1532-1538	0.7	8
92	Temperature-driven massless Kane fermions in HgCdTe crystals. *Nature Communications*, **2016**, 7, 12576	17.4	47
91	Granular superconductivity and magnetic-field-driven recovery of macroscopic coherence in a cuprate/manganite multilayer. *Physical Review B*, **2016**, 94,	3.3	6
90	New Selective Synthesis of Dithiaboroles as a Viable Pathway to Functionalized Benzenedithiolenes and Their Complexes. *Inorganic Chemistry*, **2016**, 55, 6186-94	5.1	16
89	Micro-Raman and infrared studies of multiferroic TbMnO *Journal of Physics Condensed Matter*, **2016**, 28, 055901	1.8	8
88	Multitechnique investigation of Dy - implications for coupled lanthanide clusters. *Chemical Science*, **2016**, 7, 4347-4354	9.4	60
87	Multiple magneto-phonon resonances in graphene. *2D Materials*, **2016**, 3, 015004	5.9	5
86	A four-coordinate cobalt(II) single-ion magnet with coercivity and a very high energy barrier. *Nature Communications*, **2016**, 7, 10467	17.4	295

85	Strong interband Faraday rotation in 3D topological insulator Bi2Se3. *Scientific Reports*, **2016**, 6, 19087	4.9	5
84	Rhombohedral Multilayer Graphene: A Magneto-Raman Scattering Study. *Nano Letters*, **2016**, 16, 3710-6	11.5	42
83	Hole spin injection from a GaMnAs layer into GaAs/AlAs/InGaAs resonant tunneling diodes. *Journal Physics D: Applied Physics*, **2016**, 49, 165104	3	
82	Hyperfine coupling and spin polarization in the bulk of the topological insulator Bi2Se3. *Physical Review B*, **2015**, 91,	3.3	22
81	Landau level spectroscopy of electron-electron interactions in graphene. *Physical Review Letters*, **2015**, 114, 126804	7.4	49
80	Anticrossing of Landau levels in HgTe/CdHgTe (013) quantum wells with an inverted band structure. *JETP Letters*, **2015**, 100, 790-794	1.2	23
79	Magneto-optics of massive dirac fermions in bulk Bi2Se3. *Physical Review Letters*, **2015**, 114, 186401	7.4	55
78	Infrared magneto-spectroscopy of two-dimensional and three-dimensional massless fermions: A comparison. *Journal of Applied Physics*, **2015**, 117, 112803	2.5	5
77	Effect of electron-electron interaction on cyclotron resonance in high-mobility InAs/AlSb quantum wells. *Journal of Applied Physics*, **2015**, 117, 112813	2.5	15
76	Carrier dynamics in Landau-quantized graphene featuring strong Auger scattering. *Nature Physics*, **2015**, 11, 75-81	16.2	63
75	SU(4) symmetry breaking revealed by magneto-optical spectroscopy in epitaxial graphene. *Physical Review B*, **2015**, 91,	3.3	2
74	Spin polarization of carriers in resonant tunneling devices containing InAs self-assembled quantum dots. *Superlattices and Microstructures*, **2015**, 88, 574-581	2.8	4
73	Spectroscopic determination of crystal field splittings in lanthanide double deckers. *Chemical Science*, **2014**, 5, 3287	9.4	101
72	Observation of three-dimensional massless Kane fermions in a zinc-blende crystal. *Nature Physics*, **2014**, 10, 233-238	16.2	143
71	Possible coupling between magnons and phonons in multiferroic CaMn7O12. *Physical Review B*, **2014**, 90,	3.3	15
70	Electrical switch to the resonant magneto-phonon effect in graphene. *Nano Letters*, **2014**, 14, 1460-6	11.5	12
69	A micro-magneto-Raman scattering study of graphene on a bulk graphite substrate. *Europhysics Letters*, **2014**, 108, 27011	1.6	5
68	Intraband carrier dynamics in Landau-quantized multilayer epitaxial graphene. *New Journal of Physics*, **2014**, 16, 123021	2.9	15

67	Plasmonic terahertz detectors based on a high-electron mobility GaAs/AlGaAs heterostructure. *Journal of Applied Physics*, **2014**, 115, 214503	2.5	39
66	Structural and magnetic confinement of holes in the spin-polarized emission of coupled quantum ring□quantum dot chains. *Physical Review B*, **2014**, 90,	3.3	10
65	Optical Magneto-Spectroscopy of Graphene-Based Systems. *Nanoscience and Technology*, **2014**, 113-140	0.6	
64	Graphene in high magnetic fields. *Comptes Rendus Physique*, **2013**, 14, 78-93	1.4	15
63	Electromagnon in ferrimagnetic e□e2O3 nanograin ceramics. *Physical Review B*, **2013**, 88,	3.3	9
62	Study of crystal-field excitations and infrared active phonons in the multiferroic hexagonal□DyMnO3. *Journal of Physics Condensed Matter*, **2013**, 25, 475403	1.8	5
61	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	46
60	Cyclotron resonance in HgCdTe-based heterostructures in strong magnetic fields. *Journal of Physics: Conference Series*, **2013**, 461, 012038	0.3	1
59	Magnetotransport in graphene on silicon side of SiC. *Journal of Physics: Conference Series*, **2013**, 456, 012038	0.3	
58	Circular dichroism of magnetophonon resonance in doped graphene. *Physical Review B*, **2012**, 86,	3.3	18
57	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	23
56	Magnetodielectric effect and phonon properties of compressively strained EuTiO3 thin films deposited on (001)(LaAlO3)0.29-(SrAl1/2Ta1/2O3)0.71. *Physical Review B*, **2012**, 85,	3.3	19
55	Cyclotron resonance in HgTe/CdTe-based heterostructures in high magnetic fields. *Nanoscale Research Letters*, **2012**, 7, 534	5	39
54	Magnetospectroscopy of two-dimensional HgTe-based topological insulators around the critical thickness. *Physical Review B*, **2012**, 86,	3.3	79
53	Cyclotron motion in the vicinity of a Lifshitz transition in graphite. *Physical Review Letters*, **2012**, 108, 017602	7.4	20
52	Intrinsic terahertz plasmons and magnetoplasmons in large scale monolayer graphene. *Nano Letters*, **2012**, 12, 2470-4	11.5	191
51	Probing the band structure of quadri-layer graphene with magneto-phonon resonance. *New Journal of Physics*, **2012**, 14, 095007	2.9	16
50	Magneto-optical investigation of two-dimensional gases in n-type resonant tunneling diodes. *Semiconductor Science and Technology*, **2012**, 27, 015018	1.8	3

49	From laterally modulated two-dimensional electron gas towards artificial graphene. *New Journal of Physics*, **2012**, 14, 053002	2.9	45
48	Polarization-resolved magneto-Raman scattering of graphenelike domains on natural graphite. *Physical Review B*, **2012**, 85,	3.3	31
47	Infrared magnetospectroscopy of graphite in tilted fields. *Physical Review B*, **2012**, 86,	3.3	7
46	Role of the apical oxygen in the low-temperature magnetoelectric effect in RMnO3 (R = Ho and Lu). *Physical Review B*, **2012**, 85,	3.3	15
45	Resonant excitation of graphene k-phonon and intra-landau-level excitons in magneto-optical spectroscopy [corrected]. *Physical Review Letters*, **2012**, 108, 247401	7.4	10
44	Fine structure of zero-mode Landau levels in HgTe/HgxCd1□Te quantum wells. *Physical Review B*, **2011**, 83,	3.3	48
43	Electronic excitations and electron-phonon coupling in bulk graphite through Raman scattering in high magnetic fields. *Physical Review B*, **2011**, 84,	3.3	29
42	Carrier relaxation in epitaxial graphene photoexcited near the Dirac point. *Physical Review Letters*, **2011**, 107, 237401	7.4	220
41	High-field magnetotransmission investigation of natural graphite. *Physical Review B*, **2011**, 83,	3.3	10
40	Circular polarization in a non-magnetic resonant tunneling device. *Nanoscale Research Letters*, **2011**, 6, 101	5	2
39	Study of crystal-field excitations and Raman active phonons in o-DyMnO3. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 1104-1108	2.8	12
38	Magneto-Raman scattering of graphene on graphite: electronic and phonon excitations. *Physical Review Letters*, **2011**, 107, 036807	7.4	68
37	Carrier scattering from dynamical magnetoconductivity in quasineutral epitaxial graphene. *Physical Review Letters*, **2011**, 107, 216603	7.4	50
36	Magneto-optics of bilayer inclusions in multilayered epitaxial graphene on the carbon face of SiC. *Physical Review B*, **2011**, 83,	3.3	32
35	Spin injection from two-dimensional electron and hole gases in resonant tunneling diodes. *Applied Physics Letters*, **2011**, 99, 233507	3.4	11
34	Using magnetotransport to determine the spin splitting in graphite. *Physical Review B*, **2010**, 81,	3.3	11
33	Systematic study of Mn-doping trends in optical properties of (Ga,Mn)As. *Physical Review Letters*, **2010**, 105, 227201	7.4	44
32	Schneider et al. Reply:. *Physical Review Letters*, **2010**, 104,	7.4	7

31	Electron-phonon interactions in a single modulation-doped GaInAs quantum well. *Europhysics Letters*, **2010**, 92, 37002	1.6	3
30	Dirac electronic states in graphene systems: optical spectroscopy studies. *Semiconductor Science and Technology*, **2010**, 25, 063001	1.8	148
29	Thermal conductivity of graphene in corbino membrane geometry. *ACS Nano*, **2010**, 4, 1889-92	16.7	296
28	Quasiclassical cyclotron resonance of Dirac fermions in highly doped graphene. *Physical Review B*, **2010**, 82,	3.3	63
27	Electronic properties of epitaxial graphene. *International Journal of Nanotechnology*, **2010**, 7, 383	1.5	12
26	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	1.3	20
25	Anisotropic Magnetoresistance of GaMnAs Ferromagnetic Semiconductors. *Journal of Superconductivity and Novel Magnetism*, **2010**, 23, 1161-1163	1.5	3
24	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,	3.3	4
23	Consistent interpretation of the low-temperature magnetotransport in graphite using the Slonczewski-Weiss-McClure 3D band-structure calculations. *Physical Review Letters*, **2009**, 102, 166403	7.4	54
22	Epitaxial Graphene: Designing a New Electronics Material. *ECS Transactions*, **2009**, 19, 95-105	1	
21	Magneto-transmission of multi-layer epitaxial graphene and bulk graphite: A comparison. *Solid State Communications*, **2009**, 149, 1128-1131	1.6	9
20	Nd 3+ crystal-field study of weakly doped Nd 1□x Ca x MnO 3. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3607-3610	2.8	5
19	Publisher□ Note: How Perfect Can Graphene Be? [Phys. Rev. Lett. 103, 136403 (2009)]. *Physical Review Letters*, **2009**, 103,	7.4	5
18	How perfect can graphene be?. *Physical Review Letters*, **2009**, 103, 136403	7.4	185
17	Graphite from the viewpoint of Landau level spectroscopy: an effective graphene bilayer and monolayer. *Physical Review Letters*, **2009**, 102, 166401	7.4	85
16	Tuning the electron-phonon coupling in multilayer graphene with magnetic fields. *Physical Review Letters*, **2009**, 103, 186803	7.4	74
15	Magneto-transmission as a probe of Dirac fermions in bulk graphite. *Journal of Physics Condensed Matter*, **2008**, 20, 454223	1.8	14
14	Dirac fermions at the H point of graphite: magnetotransmission studies. *Physical Review Letters*, **2008**, 100, 136403	7.4	69

13	Temperature dependence of indirect-exciton luminescence in in-plane magnetic field. *Journal of Luminescence*, **2008**, 128, 1873-1875	3.8	
12	Electron dynamics in superlattices subject to crossed magnetic and electric fields. *Microelectronics Journal*, **2008**, 39, 628-630	1.8	1
11	High-energy limit of massless Dirac fermions in multilayer graphene using magneto-optical transmission spectroscopy. *Physical Review Letters*, **2008**, 100, 087401	7.4	98
10	Approaching the dirac point in high-mobility multilayer epitaxial graphene. *Physical Review Letters*, **2008**, 101, 267601	7.4	485
9	Electronic structure of unidirectional superlattices in crossed electric and magnetic fields and related terahertz oscillations. *Physical Review B*, **2007**, 76,	3.3	3
8	Tunable terahertz oscillations in superlattices subject to an in-plane magnetic field. *Physical Review B*, **2006**, 74,	3.3	3
7	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	3	2
6	Luminescence of indirect excitons in high in-plane magnetic fields. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 30, 1-6	3	4
5	Luminescence of double quantum wells subject to in-plane magnetic fields. *Physical Review B*, **2005**, 72,	3.3	13
4	Luminescence of coupled quantum wells: Effects of indirect excitons in high in-plane magnetic fields. *Physical Review B*, **2004**, 70,	3.3	10
3	Photoluminescence of biased GaAs/AlxGa1As double quantum wells many-body effects. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 12, 335-339	3	1
2	Pentacoordinate cobalt(ii) single ion magnets with pendant alkyl chains: shall we go for chloride or bromide?. *Inorganic Chemistry Frontiers*,	6.8	4
1	Ultrafast Plasmon Thermalization in Epitaxial Graphene Probed by Time-Resolved THz Spectroscopy. *Advanced Functional Materials*,2105763	15.6	0