

Dmitry Smirnov

List of Publications by Year in descending order

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67
papers

3,142
citations

201575

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155592

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69
all docs

69
docs citations

69
times ranked

4201
citing authors

#	ARTICLE	IF	CITATIONS
1	Weyl Fermion magneto-electrodynamics and ultralow field quantum limit in TaAs. Science Advances, 2022, 8, eabj1076.	4.7	4
2	Electronic Raman scattering in the 2D antiferromagnet NiPS ₃ . Science Advances, 2022, 8, eabl7707.	4.7	13
3	Light sources with bias tunable spectrum based on van der Waals interface transistors. Nature Communications, 2022, 13, .	5.8	2
4	Layer- and gate-tunable spin-orbit coupling in a high-mobility few-layer semiconductor. Science Advances, 2021, 7, .	4.7	16
5	Landau quantization in tilted Weyl semimetals with broken symmetry. Journal of Applied Physics, 2021, 129, .	1.1	3
6	Spin-induced linear polarization of photoluminescence in antiferromagnetic van der Waals crystals. Nature Materials, 2021, 20, 964-970.	13.3	59
7	Electrically controlled emission from singlet and triplet exciton species in atomically thin light-emitting diodes. Physical Review B, 2021, 103, .	1.1	26
8	Applying Unconventional Spectroscopies to the Single-Molecule Magnets, Co(PPh ₃) ₂ X ₂ (X=Cl, Br, I): Unveiling Magnetic Transitions and Spin-Phonon Coupling. Chemistry - A European Journal, 2021, 27, 11110-11125.	1.7	21
9	Exciton-polaron Rydberg states in monolayer MoSe ₂ and WSe ₂ . Nature Communications, 2021, 12, 6131.	5.8	34
10	Magneto-transport evidence for strong topological insulator phase in ZrTe ₅ . Nature Communications, 2021, 12, 6758.	5.8	12
11	Probing the effect of magnetic field on charge order in the quasi-two-dimensional Mott insulator $\text{Hg}(\text{SCN})_2$. Physical Review B, 2021, 104, .	1.1	2
12	Giant Valley-Zeeman Splitting from Spin-Singlet and Spin-Triplet Interlayer Excitons in WSe ₂ /MoSe ₂ Heterostructure. Nano Letters, 2020, 20, 694-700.	4.5	70
13	Magnetic field mixing and splitting of bright and dark excitons in monolayer MoSe ₂ . 2D Materials, 2020, 7, 015017.	2.0	45
14	Unraveling the Topological Phase of ZrTe_5 via Magnetoinfrared Spectroscopy. Physical Review Letters, 2020, 125, 046403.	2.9	5
15	Giant Valley-Polarized Rydberg Excitons in Monolayer WSe ₂ Revealed by Magneto-photocurrent Spectroscopy. Nano Letters, 2020, 20, 7635-7641.	4.5	16
16	Electron-Hole Asymmetry of Surface States in Topological Insulator Sb ₂ Te ₃ Thin Films Revealed by Magneto-Infrared Spectroscopy. Nano Letters, 2020, 20, 4588-4593.	4.5	9
17	Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. Nature Communications, 2020, 11, 2941.	5.8	9
18	Phonon-exciton Interactions in WSe ₂ under a quantizing magnetic field. Nature Communications, 2020, 11, 3104.	5.8	15

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19	Electronic correlations in nodal-line semimetals. <i>Nature Physics</i> , 2020, 16, 636-641.	6.5	86
20	Dirac energy spectrum and inverted bandgap in metamorphic InAsSb/InSb superlattices. <i>Applied Physics Letters</i> , 2020, 116, 032101.	1.5	5
21	Observation of Quantized Exciton Energies in Monolayer WSe_2 under a Strong Magnetic Field. <i>Physical Review X</i> , 2020, 10, .	2.8	20
22	Melting of charge order in the low-temperature state of an electronic ferroelectric-like system. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	12
23	Gate Tunable Dark Trions in Monolayer WSe_2 . <i>Physical Review Letters</i> , 2019, 123, 027401.	2.9	15
24	Spectroscopic Studies of the Magnetic Excitation and Spin-Phonon Couplings in a Single-Molecule Magnet. <i>Chemistry - A European Journal</i> , 2019, 25, 15846-15857.	1.7	22
25	Valley and Zeeman Splittings in Multilayer Epitaxial Graphene Revealed by Circular Polarization Resolved Magneto-infrared Spectroscopy. <i>Nano Letters</i> , 2019, 19, 7043-7049.	4.5	6
26	Direct Observation of Gate-Tunable Dark Trions in Monolayer WSe_2 . <i>Nano Letters</i> , 2019, 19, 6886-6893.	4.5	60
27	Bilayer Lateral Heterostructures of Transition-Metal Dichalcogenides and Their Optoelectronic Response. <i>ACS Nano</i> , 2019, 13, 12372-12384.	7.3	89
28	Fractional and Symmetry-Broken Chern Insulators in Tunable Moiré Superlattices. <i>Nano Letters</i> , 2019, 19, 4321-4326.	4.5	3
29	Emerging photoluminescence from the dark-exciton phonon replica in monolayer WSe_2 . <i>Nature Communications</i> , 2019, 10, 2469.	5.8	102
30	Luminescent Emission of Excited Rydberg Excitons from Monolayer WSe_2 . <i>Nano Letters</i> , 2019, 19, 2464-2471.	4.5	51
31	Quantum Materials Based on Metamorphic InAsSb. , 2019, , .		0
32	Momentum-Dark Intervalley Exciton in Monolayer Tungsten Diselenide Brightened via Chiral Phonon. <i>ACS Nano</i> , 2019, 13, 14107-14113.	7.3	63
33	Engineering Dirac Materials: Metamorphic InAs _{1-x} Sb _x /InAs _{1-y} Sb _y Superlattices with Ultralow Bandgap. <i>Nano Letters</i> , 2018, 18, 412-417.	4.5	21
34	Metamorphic narrow-gap InSb/InAsSb superlattices with ultra-thin layers. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	6
35	Landau Quantization in Coupled Weyl Points: A Case Study of Semimetal NbP. <i>Nano Letters</i> , 2018, 18, 7726-7731.	4.5	20
36	Observation of cyclotron antiresonance in the topological insulator Bi ₂ Te ₃ . <i>Physical Review B</i> , 2018, 98, .	1.1	1

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37	Long spin-flip time and large Zeeman splitting of holes in type-II ZnTe/ZnSe submonolayer quantum dots. Journal of Applied Physics, 2018, 124, 144306.	1.1	2
38	Efficient generation of neutral and charged biexcitons in encapsulated WSe ₂ monolayers. Nature Communications, 2018, 9, 3718.	5.8	133
39	Revealing the biexciton and trion-exciton complexes in BN encapsulated WSe ₂ . Nature Communications, 2018, 9, 3719.	5.8	175
40	Spin-phonon couplings in transition metal complexes with slow magnetic relaxation. Nature Communications, 2018, 9, 2572.	5.8	93
41	Chiral Landau levels in Weyl semimetal NbAs with multiple topological carriers. Nature Communications, 2018, 9, 1854.	5.8	37
42	Structure-Property Relations in Multiferroic [(CH ₃) ₂ NH] ₂ (M)(HCOO) ₃ (M = Mn, Co, Ni). Inorganic Chemistry, 2018, 57, 11569-11577.	1.9	15
43	Probing the semiconductor to semimetal transition in InAs/GaSb double quantum wells by magneto-infrared spectroscopy. Physical Review B, 2017, 95, .	1.1	21
44	Decoherence in semiconductor nanostructures with type-II band alignment: All-optical measurements using Aharonov-Bohm excitons. Physical Review B, 2017, 95, .	1.1	3
45	Magnetic brightening and control of dark excitons in monolayer WSe ₂ . Nature Nanotechnology, 2017, 12, 883-888.	15.6	315
46	Landau-level spectroscopy of massive Dirac fermions in single-crystalline ZrTe ₅ thin flakes. Physical Review B, 2017, 96, .	1.1	3
47	Optical anisotropy in type-II ZnTe/ZnSe submonolayer quantum dots. Journal of Applied Physics, 2016, 119, 224306.	1.1	3
48	Magnetoinfrared spectroscopic study of thin Bi ₂ Te ₃ single crystals. Physical Review B, 2016, 93, .	1.1	9
49	Temperature-driven massless Kane fermions in HgCdTe crystals. Nature Communications, 2016, 7, 12576.	5.8	73
50	Electronic properties of unstrained unrelaxed narrow gap InAs _x Sb _{1-x} alloys. Journal Physics D: Applied Physics, 2016, 49, 105101.	1.3	27
51	High Photoresponsivity and Short Photoresponse Times in Few-Layered WSe ₂ Transistors. ACS Applied Materials & Interfaces, 2015, 7, 12080-12088.	4.0	111
52	Pronounced Photovoltaic Response from Multilayered Transition-Metal Dichalcogenides PN-Junctions. Nano Letters, 2015, 15, 7532-7538.	4.5	98
53	Determination of lateral size distribution of type-II ZnTe/ZnSe stacked submonolayer quantum dots via spectral analysis of optical signature of the Aharonov-Bohm excitons. Journal of Applied Physics, 2014, 116, .	1.1	6
54	Spectroscopic evidence of quantum Hall interlayer tunneling gap collapse caused by tilted magnetic field in a GaAs/AlGaAs triple quantum well. Physical Review B, 2014, 89, .	1.1	9

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55	Valley Splitting and Polarization by the Zeeman Effect in Monolayer MoSe_2 . Physical Review Letters, 2014, 113, 266804.	2.9	395
56	Cyclotron resonance of single-valley Dirac fermions in nearly gapless HgTe quantum wells. Physical Review B, 2014, 89, .	1.1	27
57	Magnetoelastic Interactions in Ferromagnetic Co_2N . Physical Review Letters, 2014, 113, 246803.	2.9	30
58	Magnetoplasmons in Quasineutral Epitaxial Graphene Nanoribbons. Physical Review Letters, 2013, 110, 246803.	2.9	30
59	Measurement of Filling-Factor-Dependent Magnetophonon Resonances in Graphene Using Raman Spectroscopy. Physical Review Letters, 2013, 110, 227402.	2.9	28
60	Quantum oscillations of spin polarization in a GaAs/AlGaAs double quantum well. Physical Review B, 2012, 86, .	1.1	7
61	Circularly Polarized Photoluminescence as a Probe of Density of States in $\text{AlGaAs}/\text{GaAs}$ Quantum Hall Bilayers. Physical Review Letters, 2012, 109, 046802.	2.9	9
62	Magnetophonon resonance in graphite: High-field Raman measurements and electron-phonon coupling contributions. Physical Review B, 2012, 85, .	1.1	32
63	Enhancement and narrowing of the Aharonov-Bohm oscillations due to built-in electric field in stacked type-II ZnTe/ZnSe quantum dots: Spectral analysis. Physical Review B, 2012, 86, .	1.1	7
64	Transport spectroscopy of symmetry-broken insulating states in bilayer graphene. Nature Nanotechnology, 2012, 7, 156-160.	15.6	264
65	High-frequency and -field EPR and FDMRS study of the $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$ ion in ferrous fluorosilicate. Journal of Magnetic Resonance, 2011, 213, 158-165.	1.2	18
66	Measurement of graphite tight-binding parameters using high-field magnetorefectance. Physical Review B, 2011, 84, .	1.1	12
67	Electron scattering spectroscopy by a high magnetic field in quantum cascade lasers. Physical Review B, 2006, 73, .	1.1	75