

Dmitry Smirnov

List of Publications by Year in descending order

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67
papers

3,142
citations

201575

27
h-index

155592

55
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69
all docs

69
docs citations

69
times ranked

4201
citing authors

#	ARTICLE	IF	CITATIONS
1	Valley Splitting and Polarization by the Zeeman Effect in Monolayer MoSe_2 . Physical Review Letters, 2014, 113, 266804.	2.9	395
2	Magnetic brightening and control of dark excitons in monolayer WSe_2 . Nature Nanotechnology, 2017, 12, 883-888.	15.6	315
3	Transport spectroscopy of symmetry-broken insulating states in bilayer graphene. Nature Nanotechnology, 2012, 7, 156-160.	15.6	264
4	Revealing the biexciton and trion-exciton complexes in BN encapsulated WSe_2 . Nature Communications, 2018, 9, 3719.	5.8	175
5	Efficient generation of neutral and charged biexcitons in encapsulated WSe_2 monolayers. Nature Communications, 2018, 9, 3718.	5.8	133
6	High Photoresponsivity and Short Photoresponse Times in Few-Layered WSe_2 Transistors. ACS Applied Materials & Interfaces, 2015, 7, 12080-12088.	4.0	111
7	Emerging photoluminescence from the dark-exciton phonon replica in monolayer WSe_2 . Nature Communications, 2019, 10, 2469.	5.8	102
8	Pronounced Photovoltaic Response from Multilayered Transition-Metal Dichalcogenides PN-Junctions. Nano Letters, 2015, 15, 7532-7538.	4.5	98
9	Gate Tunable Dark Trions in Monolayer WSe_2 . Physical Review Letters, 2019, 123, 027401.	4.5	95
10	Spin-phonon couplings in transition metal complexes with slow magnetic relaxation. Nature Communications, 2018, 9, 2572.	5.8	93
11	Bilayer Lateral Heterostructures of Transition-Metal Dichalcogenides and Their Optoelectronic Response. ACS Nano, 2019, 13, 12372-12384.	7.3	89
12	Electronic correlations in nodal-line semimetals. Nature Physics, 2020, 16, 636-641.	6.5	86
13	Electron scattering spectroscopy by a high magnetic field in quantum cascade lasers. Physical Review B, 2006, 73, .	1.1	75
14	Temperature-driven massless Kane fermions in HgCdTe crystals. Nature Communications, 2016, 7, 12576.	5.8	73
15	Giant Valley-Zeeman Splitting from Spin-Singlet and Spin-Triplet Interlayer Excitons in $\text{WSe}_2/\text{MoSe}_2$ Heterostructure. Nano Letters, 2020, 20, 694-700.	4.5	70
16	Momentum-Dark Intervalley Exciton in Monolayer Tungsten Diselenide Brightened via Chiral Phonon. ACS Nano, 2019, 13, 14107-14113.	7.3	63
17	Direct Observation of Gate-Tunable Dark Trions in Monolayer WSe_2 . Nano Letters, 2019, 19, 6886-6893.	4.5	60
18	Spin-induced linear polarization of photoluminescence in antiferromagnetic van der Waals crystals. Nature Materials, 2021, 20, 964-970.	13.3	59

#	ARTICLE	IF	CITATIONS
19	Luminescent Emission of Excited Rydberg Excitons from Monolayer WSe ₂ . Nano Letters, 2019, 19, 2464-2471.	4.5	51
20	Magnetic field mixing and splitting of bright and dark excitons in monolayer MoSe ₂ . 2D Materials, 2020, 7, 015017.	2.0	45
21	Landau-level spectroscopy of massive Dirac fermions in single-crystalline ZrTe ₅ thin flakes. Physical Review B, 2017, 96, .	1.1	27
22	Chiral Landau levels in Weyl semimetal NbAs with multiple topological carriers. Nature Communications, 2018, 9, 1854.	5.8	37
23	Exciton-polaron Rydberg states in monolayer MoSe ₂ and WSe ₂ . Nature Communications, 2021, 12, 6131.	5.8	34
24	Magnetophonon resonance in graphite: High-field Raman measurements and electron-phonon coupling contributions. Physical Review B, 2012, 85, .	1.1	32
25	Magnetoplasmons in Quasineutral Epitaxial Graphene Nanoribbons. Physical Review Letters, 2013, 110, 246803.	2.9	30
26	Measurement of Filling-Factor-Dependent Magnetophonon Resonances in Graphene Using Raman Spectroscopy. Physical Review Letters, 2013, 110, 227402.	2.9	28
27	Cyclotron resonance of single-valley Dirac fermions in nearly gapless HgTe quantum wells. Physical Review B, 2014, 89, .	1.1	27
28	Electronic properties of unstrained unrelaxed narrow gap InAs _x Sb _{1-x} alloys. Journal Physics D: Applied Physics, 2016, 49, 105101.	1.3	27
29	Unraveling the Topological Phase of ZrTe ₅ via Magnetoinfrared Spectroscopy. Physical Review Letters, 2020, 125, 046403.	2.9	30
30	Electrically controlled emission from singlet and triplet exciton species in atomically thin light-emitting diodes. Physical Review B, 2021, 103, .	1.1	26
31	Spectroscopic Studies of the Magnetic Excitation and Spin-Phonon Couplings in a Single-Molecule Magnet. Chemistry - A European Journal, 2019, 25, 15846-15857.	1.7	22
32	Probing the semiconductor to semimetal transition in InAs/GaSb double quantum wells by magneto-infrared spectroscopy. Physical Review B, 2017, 95, .	1.1	21
33	Engineering Dirac Materials: Metamorphic InAs _x Sb _x /InAs _y Sb _y Superlattices with Ultralow Bandgap. Nano Letters, 2018, 18, 412-417.	4.5	21
34	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
35	Landau Quantization in Coupled Weyl Points: A Case Study of Semimetal NbP. Nano Letters, 2018, 18, 7726-7731.	4.5	20

#	ARTICLE	IF	CITATIONS
37	Observation of Quantized Exciton Energies in Monolayer WSe_2 under a Strong Magnetic Field. <i>Physical Review X</i> , 2020, 10, .	2.8	20
38	High-frequency and -field EPR and FDMRS study of the $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$ ion in ferrous fluorosilicate. <i>Journal of Magnetic Resonance</i> , 2011, 213, 158-165.	1.2	18
39	Giant Valley-Polarized Rydberg Excitons in Monolayer WSe_2 Revealed by Magneto-photocurrent Spectroscopy. <i>Nano Letters</i> , 2020, 20, 7635-7641.	4.5	16
40	Layer- and gate-tunable spin-orbit coupling in a high-mobility few-layer semiconductor. <i>Science Advances</i> , 2021, 7, .	4.7	16
41	Structure-Property Relations in Multiferroic $[(\text{CH}_3)_2\text{NH}]_2\text{M}(\text{HCOO})_3$ ($\text{M} = \text{Mn, Co, Ni}$). <i>Inorganic Chemistry</i> , 2018, 57, 11569-11577.	1.9	15
42	Phonon-exciton Interactions in WSe_2 under a quantizing magnetic field. <i>Nature Communications</i> , 2020, 11, 3104.	5.8	15
43	Electronic Raman scattering in the 2D antiferromagnet NiPS_3 . <i>Science Advances</i> , 2022, 8, eabl7707.	4.7	13
44	Measurement of graphite tight-binding parameters using high-field magnetorefectance. <i>Physical Review B</i> , 2011, 84, .	1.1	12
45	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
46	Magneto-transport evidence for strong topological insulator phase in ZrTe_5 . <i>Nature Communications</i> , 2021, 12, 6758.	5.8	12
47	Circularly Polarized Photoluminescence as a Probe of Density of States in $\text{GaAs}/\text{AlGaAs}$ Quantum Hall Bilayers. <i>Physical Review Letters</i> , 2012, 109, 046802.	2.9	9
48	Spectroscopic evidence of quantum Hall interlayer tunneling gap collapse caused by tilted magnetic field in a $\text{GaAs}/\text{AlGaAs}$ triple quantum well. <i>Physical Review B</i> , 2014, 89, .	1.1	9
49	Magneto-infrared spectroscopic study of thin Bi_2Te_3 single crystals. <i>Physical Review B</i> , 2016, 93, .	1.1	9
50	Electron-Hole Asymmetry of Surface States in Topological Insulator Sb_2Te_3 Thin Films Revealed by Magneto-Infrared Spectroscopy. <i>Nano Letters</i> , 2020, 20, 4588-4593.	4.5	9
51	Unconventional valley-dependent optical selection rules and Landau level mixing in bilayer graphene. <i>Nature Communications</i> , 2020, 11, 2941.	5.8	9
52	Quantum oscillations of spin polarization in a $\text{GaAs}/\text{AlGaAs}$ double quantum well. <i>Physical Review B</i> , 2012, 86, .	1.1	7
53	Enhancement and narrowing of the Aharonov-Bohm oscillations due to built-in electric field in stacked type-II ZnTe/ZnSe quantum dots: Spectral analysis. <i>Physical Review B</i> , 2012, 86, .	1.1	7
54	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. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	6

