

Ivan A Verzhbitskiy

List of Publications by Year in descending order

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44
papers

3,010
citations

331538

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all docs

44
docs citations

44
times ranked

6165
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of structurally well-defined and liquid-phase-processable graphene nanoribbons. Nature Chemistry, 2014, 6, 126-132.	6.6	468
2	Molecularly thin two-dimensional hybrid perovskites with tunable optoelectronic properties due to reversible surface relaxation. Nature Materials, 2018, 17, 908-914.	13.3	295
3	Raman study on defective graphene: Effect of the excitation energy, type, and amount of defects. Physical Review B, 2013, 88, .	1.1	279
4	Evidence for Fast Interlayer Energy Transfer in MoSe ₂ /WS ₂ Heterostructures. Nano Letters, 2016, 16, 4087-4093.	4.5	205
5	Colossal Ultraviolet Photoresponsivity of Few-Layer Black Phosphorus. ACS Nano, 2015, 9, 8070-8077.	7.3	204
6	Chemical Stabilization of 1T [±] Phase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. Journal of the American Chemical Society, 2017, 139, 2504-2511.	6.6	171
7	Controlling the magnetic anisotropy in Cr ₂ Ge ₂ Te ₆ by electrostatic gating. Nature Electronics, 2020, 3, 460-465.	13.1	145
8	Bottom-Up Synthesis of Liquid-Phase-Processable Graphene Nanoribbons with Near-Infrared Absorption. ACS Nano, 2014, 8, 11622-11630.	7.3	138
9	Engineering Bandgaps of Monolayer MoS ₂ and WS ₂ on Fluoropolymer Substrates by Electrostatically Tuned Many-Body Effects. Advanced Materials, 2016, 28, 6457-6464.	11.1	116
10	Exciton-Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. Advanced Materials, 2016, 28, 2709-2715.	11.1	115
11	Electroluminescent Devices Based on 2D Semiconducting Transition Metal Dichalcogenides. Advanced Materials, 2018, 30, e1802687.	11.1	86
12	Raman Fingerprints of Atomically Precise Graphene Nanoribbons. Nano Letters, 2016, 16, 3442-3447.	4.5	83
13	Raman scattering efficiency of graphene. Physical Review B, 2013, 87, .	1.1	82
14	Giant gate-tunable bandgap renormalization and excitonic effects in a 2D semiconductor. Science Advances, 2019, 5, eaaw2347.	4.7	80
15	Efficient Carrier-to-Exciton Conversion in Field Emission Tunnel Diodes Based on MIS-Type van der Waals Heterostack. Nano Letters, 2017, 17, 5156-5162.	4.5	71
16	Characterization of the second- and third-harmonic optical susceptibilities of atomically thin tungsten diselenide. Scientific Reports, 2018, 8, 10035.	1.6	57
17	Giant second-harmonic generation in ferroelectric NbOI ₂ . Nature Photonics, 2022, 16, 644-650.	15.6	57
18	Determination of Crystal Axes in Semimetallic Ta [±] MoTe ₂ by Polarized Raman Spectroscopy. Advanced Functional Materials, 2017, 27, 1604799.	7.8	47

#	ARTICLE	IF	CITATIONS
19	Electron tunneling at the molecularly thin 2D perovskite and graphene van der Waals interface. Nature Communications, 2020, 11, 5483.	5.8	35
20	Effects Of Structural Phase Transition On Thermoelectric Performance in Lithium-Intercalated Molybdenum Disulfide (Li_xMoS_2). ACS Applied Materials & Interfaces, 2019, 11, 12184-12189.	4.0	31
21	Measuring Valley Polarization in Two-Dimensional Materials with Second-Harmonic Spectroscopy. ACS Photonics, 2020, 7, 925-931.	3.2	22
22	Data-driven discovery of high performance layered van der Waals piezoelectric NbOI ₂ . Nature Communications, 2022, 13, 1884.	5.8	22
23	Strong Optical Absorption and Photocarrier Relaxation in 2-D Semiconductors. IEEE Journal of Quantum Electronics, 2015, 51, 1-6.	1.0	21
24	Suppressed Out-of-Plane Polarizability of Free Excitons in Monolayer WSe_2 . ACS Nano, 2019, 13, 3218-3224.	7.3	21
25	Tunable D peak in gated graphene. Nano Research, 2014, 7, 338-344.	5.8	20
26	Polarity Tunable Trionic Electroluminescence in Monolayer WSe_2 . Nano Letters, 2019, 19, 7470-7475.	4.5	20
27	Interlayer screening effects in WS_2/WSe_2 van der Waals hetero-bilayer. 2D Materials, 2018, 5, 041003.	2.0	18
28	Harnessing Exciton-Exciton Annihilation in Two-Dimensional Semiconductors. Nano Letters, 2020, 20, 1647-1653.	4.5	18
29	The isotropic remnant of the CO_2 near-fully depolarized Raman $2\hat{1}/_3$ overtone. Journal of Chemical Physics, 2011, 134, 104310.	1.2	12
30	Elastomeric Waveguide on-Chip Coupling of an Encapsulated MoS_2 Monolayer. ACS Photonics, 2019, 6, 595-599.	3.2	11
31	Evidence for double incoherent Raman scattering in binary gas mixtures: SF_6 and N_2 . Physical Review A, 2010, 81, 013407.	1.0	10
32	Are asymmetric stretch Raman spectra by centrosymmetric molecules depolarized?: The $2\hat{1}/_3$ overtone of CO_2 . Journal of Chemical Physics, 2011, 134, 044318.	1.2	9
33	Evidence for an isotropic signature in double vibrational collision-induced Raman scattering: A point-polarizable molecule model. Physical Review A, 2010, 81, 013407.	1.0	8
34	Double vibrational collision-induced Raman scattering by SF_6 and N_2 . Physical Review A, 2010, 81, 013407.	1.0	7
35	Disorder-driven two-dimensional quantum phase transitions in Li_xMoS_2 . 2D Materials, 2020, 7, 035013.	2.0	7
36	The depolarized Raman $2\hat{1}/_3$ overtone of CO_2 : A line-mixing shape analysis. Journal of Chemical Physics, 2011, 134, 194305.	1.2	6

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37	The isotropic spectrum of the CO ₂ Raman 2 $\hat{1}$ / ₂ 3 overtone: A line-mixing band shape analysis at pressures up to several tens of atmospheres. <i>Journal of Chemical Physics</i> , 2011, 134, 224301.	1.2	4
38	In-plane Field-Driven Excitonic Electro-Optic Modulation in Monolayer Semiconductor. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	4
39	Mode-Center Placement of Monolayer WS ₂ in a Photonic Polymer Waveguide. <i>Advanced Optical Materials</i> , 0, , 2101684.	3.6	3
40	Chalcogenide Nanosheets: Optical Signatures of Many-Body Effects and Electronic Band Structure. <i>Nanostructure Science and Technology</i> , 2017, , 133-162.	0.1	2
41	Double Raman Scattering In Gas Mixtures. , 2010, , .		0
42	Raman line shape studies of hydrogen cryosolutions. <i>Journal of Physics: Conference Series</i> , 2012, 397, 012058.	0.3	0
43	Coupling 2D Materials to an Elastomer Waveguide. , 2019, , .		0
44	Coupling of a 2D Heterostructure to a Photonic Polymer Waveguide via Mode-center Encapsulation. , 2021, , .		0