Viktor ZÃ³lyomi

List of Publications by Year
in descending order

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33	3,668	361413 20	414414 32
papers	citations	h-index	g-index

33	33	33	5647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Raman spectroscopy of GaSe and InSe post-transition metal chalcogenides layers. Faraday Discussions, 2021, 227, 163-170.	3.2	43
2	Ghost anti-crossings caused by interlayer umklapp hybridization of bands in 2D heterostructures. 2D Materials, 2021, 8, 015016.	4.4	8
3	Broken mirror symmetry in excitonic response of reconstructed domains in twisted MoSe2/MoSe2 bilayers. Nature Nanotechnology, 2020, 15, 750-754.	31.5	106
4	Crossover from weakly indirect to direct excitons in atomically thin films of InSe. Physical Review B, 2020, 101, .	3.2	6
5	Design of van der Waals interfaces for broad-spectrum optoelectronics. Nature Materials, 2020, 19, 299-304.	27.5	106
6	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. Nature Nanotechnology, 2020, 15, 592-597.	31.5	245
7	Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. ACS Nano, 2019, 13, 2136-2142.	14.6	63
8	Formation and Healing of Defects in Atomically Thin GaSe and InSe. ACS Nano, 2019, 13, 5112-5123.	14.6	35
9	Resonance Raman Spectroscopy of Silicene and Germanene. Journal of Physical Chemistry C, 2019, 123, 1995-2008.	3.1	8
10	Infrared-to-violet tunable optical activity in atomic films of GaSe, InSe, and their heterostructures. 2D Materials, 2018, 5, 041009.	4.4	52
11	Valence band inversion and spin-orbit effects in the electronic structure of monolayer GaSe. Physical Review B, 2018, 98, .	3.2	47
12	Tunable Berry curvature and valley and spin Hall effect in bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2018, 98, .	3.2	68
13	Hybrid Surface-Phonon-Plasmon Polariton Modes in Graphene/Monolayer h-BN Heterostructures. <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">k</mml:mi><mml:mo>Â·</mml:mo><mml:mi mathvariant="normal">p</mml:mi></mml:mrow></mml:math> tight-binding model for subbands and infrared intersubband optics in few-layer films of transition-metal dichalcogenides: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:m. Physical Review B, 2018, 98, .	3.2	34
14	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. Nature Communications, 2017, 8, 14410.	12.8	93
15	High electron mobility, quantum Hall effect and anomalous optical response in atomically thin InSe. Nature Nanotechnology, 2017, 12, 223-227.	31.5	996
16	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. Nanoscale, 2016, 8, 5826-5834.	5.6	32
17	Breaking of Valley Degeneracy by Magnetic Field in Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2015, 114, 037401.	7.8	566
18	I-band-like non-dispersive inter-shell interaction induced Raman lines in the D-band region of double-walled carbon nanotubes. Applied Physics A: Materials Science and Processing, 2015, 118, 587-593.	2.3	3

#	ARTICLE	IF	CITATIONS
19	Hydrocarbon chains and rings: bond length alternation in finite molecules. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	2
20	Electronic properties of linear carbon chains: Resolving the controversy. Journal of Chemical Physics, 2014, 140, 104306.	3.0	40
21	Spin-Orbit Coupling, Quantum Dots, and Qubits in Monolayer Transition Metal Dichalcogenides. Physical Review X, 2014, 4, .	8.9	222
22	High-Sensitivity Photodetectors Based on Multilayer GaTe Flakes. ACS Nano, 2014, 8, 752-760.	14.6	319
23	Monolayer MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>: Trigonal warping, the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î“</mml:mi></mml:math>valley, and spin-orbit coupling effects. Physical Review B, 2013, 88, .	3.2	357
24	Density of states deduced from ESR measurements on lowâ€dimensional nanostructures; benchmarks to identify the ESR signals of graphene and SWCNTs. Physica Status Solidi (B): Basic Research, 2011, 248, 2688-2691.	1.5	16
25	Singleâ€wall carbon nanotubes: spintronics in the Luttinger liquid phase. Physica Status Solidi (B): Basic Research, 2009, 246, 2744-2749.	1.5	0
26	Using line group theory for the symmetry assignment of the phonons of single walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2614-2617.	1.5	4
27	Junctions of leftâ€•and rightâ€handed chiral carbon nanotubes â€“ nanobamboo. Physica Status Solidi (B): Basic Research, 2009, 246, 2671-2674.	1.5	3
28	Two component doping of fullereneâ€“cubane cocrystals. Physica Status Solidi (B): Basic Research, 2009, 246, 2618-2621.	1.5	1
29	Phonon dispersion of small diameter semiconducting chiral carbon nanotubes â€“ a theoretical study. Physica Status Solidi (B): Basic Research, 2008, 245, 2137-2140.	1.5	8
30	Theoretical study of the electronic structure and the totally symmetric vibrations of selected CoMoCat carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2141-2144.	1.5	2
31	In Situ Raman Spectroelectrochemistry of Single-Walled Carbon Nanotubes: Investigation of Materials Enriched with (6,5) Tubes. Journal of Physical Chemistry C, 2008, 112, 14179-14187.	3.1	22
32	The transformation of open picotubes to a closed molecular configuration. Physica Status Solidi (B): Basic Research, 2006, 243, 3151-3154.	1.5	7
33	The geometry and the radial breathing mode of carbon nanotubes: beyond the ideal behaviour. New Journal of Physics, 2003, 5, 125-125.	2.9	154