

# Viktor Zlyomi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33 papers	2,647 citations	18 h-index	33 g-index
33 ext. papers	3,203 ext. citations	7.9 avg, IF	4.87 L-index

#	Paper	IF	Citations
33	Ghost anti-crossings caused by interlayer umklapp hybridization of bands in 2D heterostructures. <i>2D Materials</i> , <b>2021</b> , 8, 015016	5.9	2
32	Raman spectroscopy of GaSe and InSe post-transition metal chalcogenides layers. <i>Faraday Discussions</i> , <b>2021</b> , 227, 163-170	3.6	11
31	Crossover from weakly indirect to direct excitons in atomically thin films of InSe. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	1
30	Design of van der Waals interfaces for broad-spectrum optoelectronics. <i>Nature Materials</i> , <b>2020</b> , 19, 299-304	30.4	64
29	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 592-597	28.7	110
28	Broken mirror symmetry in excitonic response of reconstructed domains in twisted MoSe/MoSe bilayers. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 750-754	28.7	46
27	Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>ACS Nano</i> , <b>2019</b> , 13, 2136-2142	16.7	40
26	Formation and Healing of Defects in Atomically Thin GaSe and InSe. <i>ACS Nano</i> , <b>2019</b> , 13, 5112-5123	16.7	23
25	Resonance Raman Spectroscopy of Silicene and Germanene. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1995-2008	3.8	7
24	Hybrid k $\cdot$ p tight-binding model for subbands and infrared intersubband optics in few-layer films of transition-metal dichalcogenides: MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> , and WSe <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	18
23	Infrared-to-violet tunable optical activity in atomic films of GaSe, InSe, and their heterostructures. <i>2D Materials</i> , <b>2018</b> , 5, 041009	5.9	39
22	Valence band inversion and spin-orbit effects in the electronic structure of monolayer GaSe. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	34
21	Tunable Berry curvature and valley and spin Hall effect in bilayer MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	47
20	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. <i>Nature Communications</i> , <b>2017</b> , 8, 14410	17.4	66
19	High electron mobility, quantum Hall effect and anomalous optical response in atomically thin InSe. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 223-227	28.7	723
18	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , <b>2016</b> , 8, 5826-34	7.7	27
17	I-band-like non-dispersive inter-shell interaction induced Raman lines in the D-band region of double-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 118, 587-593	2.6	3

16	Hydrocarbon chains and rings: bond length alternation in finite molecules. <i>Theoretical Chemistry Accounts</i> , <b>2015</b> , 134, 1	1.9	2
15	Breaking of valley degeneracy by magnetic field in monolayer MoSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 114, 037401	7.4	401
14	Spin-Orbit Coupling, Quantum Dots, and Qubits in Monolayer Transition Metal Dichalcogenides. <i>Physical Review X</i> , <b>2014</b> , 4,	9.1	183
13	High-sensitivity photodetectors based on multilayer GaTe flakes. <i>ACS Nano</i> , <b>2014</b> , 8, 752-60	16.7	257
12	Electronic properties of linear carbon chains: resolving the controversy. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 104306	3.9	32
11	Monolayer MoS <sub>2</sub> : Trigonal warping, the $\bar{K}$ valley, and spin-orbit coupling effects. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	310
10	Density of states deduced from ESR measurements on low-dimensional nanostructures; benchmarks to identify the ESR signals of graphene and SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2688-2691	1.3	16
9	Single-wall carbon nanotubes: spintronics in the Luttinger liquid phase. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2744-2749	1.3	
8	Using line group theory for the symmetry assignment of the phonons of single walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2614-2617	1.3	4
7	Junctions of left- and right-handed chiral carbon nanotubes [nanobamboo]. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2671-2674	1.3	3
6	Two component doping of fullerene/cubane cocrystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2618-2621	1.3	1
5	In Situ Raman Spectroelectrochemistry of Single-Walled Carbon Nanotubes: Investigation of Materials Enriched with (6,5) Tubes. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14179-14187	3.8	22
4	Phonon dispersion of small diameter semiconducting chiral carbon nanotubes: a theoretical study. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 2137-2140	1.3	8
3	Theoretical study of the electronic structure and the totally symmetric vibrations of selected CoMoCat carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 2141-2144	1.3	2
2	The transformation of open picotubes to a closed molecular configuration. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3151-3154	1.3	7
1	The geometry and the radial breathing mode of carbon nanotubes: beyond the ideal behaviour. <i>New Journal of Physics</i> , <b>2003</b> , 5, 125-125	2.9	138