

# Peter Vancsás<sup>3</sup>

## List of Publications by Year in descending order

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25  
papers

1,654  
citations

516215

16  
h-index

552369

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

3383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature magnetic order on zigzag edges of narrow graphene nanoribbons. <i>Nature</i> , 2014, 514, 608-611.	13.7	662
2	Spontaneous doping of the basal plane of MoS <sub>2</sub> single layers through oxygen substitution under ambient conditions. <i>Nature Chemistry</i> , 2018, 10, 1246-1251.	6.6	295
3	The intrinsic defect structure of exfoliated MoS <sub>2</sub> single layers revealed by Scanning Tunneling Microscopy. <i>Scientific Reports</i> , 2016, 6, 29726.	1.6	198
4	MoS <sub>2</sub> –Carbon Nanotube Hybrid Material Growth and Gas Sensing. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700801.	1.9	73
5	Large area growth of vertically aligned luminescent MoS <sub>2</sub> nanosheets. <i>Nanoscale</i> , 2017, 9, 277-287.	2.8	54
6	Moderate strain induced indirect bandgap and conduction electrons in MoS <sub>2</sub> single layers. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	45
7	Transition Metal Chalcogenide Single Layers as an Active Platform for Single-Atom Catalysis. <i>ACS Energy Letters</i> , 2019, 4, 1947-1953.	8.8	43
8	Electronic states of disordered grain boundaries in graphene prepared by chemical vapor deposition. <i>Carbon</i> , 2013, 64, 178-186.	5.4	36
9	Electronic transport through ordered and disordered graphene grain boundaries. <i>Carbon</i> , 2013, 64, 101-110.	5.4	35
10	Signature of Large-Gap Quantum Spin Hall State in the Layered Mineral Jacutingaite. <i>Nano Letters</i> , 2020, 20, 5207-5213.	4.5	33
11	STM study of the MoS <sub>2</sub> flakes grown on graphite: A model system for atomically clean 2D heterostructure interfaces. <i>Carbon</i> , 2016, 105, 408-415.	5.4	29
12	Bilayered semiconductor graphene nanostructures with periodically arranged hexagonal holes. <i>Nano Research</i> , 2015, 8, 1250-1258.	5.8	25
13	Influence of Native Defects on the Electronic and Magnetic Properties of CVD Grown MoSe <sub>2</sub> Single Layers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24855-24864.	1.5	22
14	Anisotropic dynamics of charge carriers in graphene. <i>Physical Review B</i> , 2012, 85, .	1.1	21
15	Effect of the disorder in graphene grain boundaries: A wave packet dynamics study. <i>Applied Surface Science</i> , 2014, 291, 58-63.	3.1	20
16	Large-area nanoengineering of graphene corrugations for visible-frequency graphene plasmons. <i>Nature Nanotechnology</i> , 2022, 17, 61-66.	15.6	19
17	Interaction effects in a chaotic graphene quantum billiard. <i>Physical Review B</i> , 2017, 95, .	1.1	14
18	Forming electronic waveguides from graphene grain boundaries. <i>Journal of Nanophotonics</i> , 2012, 6, 061718.	0.4	6

#	ARTICLE	IF	CITATIONS
19	Higher-indexed Moiré patterns and surface states of MoTe <sub>2</sub> /graphene heterostructure grown by molecular beam epitaxy. Npj 2D Materials and Applications, 2022, 6, .	3.9	6
20	A magnetic phase-transition graphene transistor with tunable spin polarization. 2D Materials, 2017, 4, 024008.	2.0	5
21	Stability of edge magnetism against disorder in zigzag MoS <sub>2</sub> nanoribbons. Physical Review Materials, 2019, 3, .	0.9	4
22	Electronic Dynamics in Graphene and MoS <sub>2</sub> Systems. Physica Status Solidi (B): Basic Research, 2017, 254, 1700179.	0.7	3
23	Time and energy dependent dynamics of the STM tip “graphene system. European Physical Journal B, 2012, 85, 1.	0.6	2
24	Wave Packet Dynamical Calculations for Carbon Nanostructures. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 89-102.	0.2	2
25	Wave Packet Dynamical Simulation of Quasiparticle Interferences in 2D Materials. Applied Sciences (Switzerland), 2021, 11, 4730.	1.3	1