PÃ©ter VancsÃ³

List of Publications by Year
in descending order

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	Large-area nanoengineering of graphene corrugations for visible-frequency graphene plasmons. Nature Nanotechnology, 2022, 17, 61-66.	15.6	19
2	Higher-indexed MoirÃ© patterns and surface states of MoTe2/graphene heterostructure grown by molecular beam epitaxy. Npj 2D Materials and Applications, 2022, 6, .	3.9	6
3	Wave Packet Dynamical Simulation of Quasiparticle Interferences in 2D Materials. Applied Sciences (Switzerland), 2021, 11, 4730.	1.3	1
4	Signature of Large-Gap Quantum Spin Hall State in the Layered Mineral Jacutingaite. Nano Letters, 2020, 20, 5207-5213.	4.5	33
5	Transition Metal Chalcogenide Single Layers as an Active Platform for Single-Atom Catalysis. ACS Energy Letters, 2019, 4, 1947-1953.	8.8	43
6	Moderate strain induced indirect bandgap and conduction electrons in MoS2 single layers. Npj 2D Materials and Applications, 2019, 3, .	3.9	45
7	Influence of Native Defects on the Electronic and Magnetic Properties of CVD Grown MoSe₂ Single Layers. Journal of Physical Chemistry C, 2019, 123, 24855-24864.	1.5	22
8	Stability of edge magnetism against disorder in zigzag MoS2 nanoribbons. Physical Review Materials, 2019, 3, .	0.9	4
9	Spontaneous doping of the basal plane of MoS2 single layers through oxygen substitution under ambient conditions. Nature Chemistry, 2018, 10, 1246-1251.	6.6	295
10	Interaction effects in a chaotic graphene quantum billiard. Physical Review B, 2017, 95, .	1.1	14
11	A magnetic phase-transition graphene transistor with tunable spin polarization. 2D Materials, 2017, 4, 024008.	2.0	5
12	MoS₂â€“Carbon Nanotube Hybrid Material Growth and Gas Sensing. Advanced Materials Interfaces, 2017, 4, 1700801.	1.9	73
13	Electronic Dynamics in Graphene and MoS₂ Systems. Physica Status Solidi (B): Basic Research, 2017, 254, 1700179.	0.7	3
14	Large area growth of vertically aligned luminescent MoS₂nanosheets. Nanoscale, 2017, 9, 277-287.	2.8	54
15	Wave Packet Dynamical Calculations for Carbon Nanostructures. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 89-102.	0.2	2
16	STM study of the MoS2 flakes grown on graphite: A model system for atomically clean 2D heterostructure interfaces. Carbon, 2016, 105, 408-415.	5.4	29
17	The intrinsic defect structure of exfoliated MoS2 single layers revealed by Scanning Tunneling Microscopy. Scientific Reports, 2016, 6, 29726.	1.6	198
18	Bilayered semiconductor graphene nanostructures with periodically arranged hexagonal holes. Nano Research, 2015, 8, 1250-1258.	5.8	25

#	ARTICLE	IF	CITATIONS
19	Effect of the disorder in graphene grain boundaries: A wave packet dynamics study. Applied Surface Science, 2014, 291, 58-63.	3.1	20
20	Room-temperature magnetic order on zigzag edges of narrow graphene nanoribbons. Nature, 2014, 514, 608-611.	13.7	662
21	Electronic states of disordered grain boundaries in graphene prepared by chemical vapor deposition. Carbon, 2013, 64, 178-186.	5.4	36
22	Electronic transport through ordered and disordered graphene grain boundaries. Carbon, 2013, 64, 101-110.	5.4	35
23	Anisotropic dynamics of charge carriers in graphene. Physical Review B, 2012, 85, .	1.1	21
24	Forming electronic waveguides from graphene grain boundaries. Journal of Nanophotonics, 2012, 6, 061718.	0.4	6
25	Time and energy dependent dynamics of the STM tip â€" graphene system. European Physical Journal B, 2012, 85, 1.	0.6	2