Ahmet Avsar

List of Publications by Year
in descending order

28 papers	3,922 citations	257101 24 h-index	500791 28 g-index
28 all docs	28 docs citations	28 times ranked	5986 citing authors

#	Article	IF	Citations
1	Air-Stable Transport in Graphene-Contacted, Fully Encapsulated Ultrathin Black Phosphorus-Based Field-Effect Transistors. ACS Nano, 2015, 9, 4138-4145.	7.3	455
2	Spinâ€"orbit proximity effect in graphene. Nature Communications, 2014, 5, 4875.	5.8	431
3	Room-temperature electrical control of exciton flux in a van der Waals heterostructure. Nature, 2018, 560, 340-344.	13.7	353
4	<i>Colloquium</i> : Spintronics in graphene and other two-dimensional materials. Reviews of Modern Physics, 2020, 92, .	16.4	265
5	Thickness-modulated metal-to-semiconductor transformation in a transition metal dichalcogenide. Nature Communications, 2018, 9, 919.	5.8	253
6	Logic-in-memory based on an atomically thin semiconductor. Nature, 2020, 587, 72-77.	13.7	243
7	Observation of Long Spin-Relaxation Times in Bilayer Graphene at Room Temperature. Physical Review Letters, 2011, 107, 047206.	2.9	235
8	Toward Wafer Scale Fabrication of Graphene Based Spin Valve Devices. Nano Letters, 2011, 11, 2363-2368.	4.5	214
9	Polarization switching and electrical control of interlayer excitons in two-dimensional van der Waals heterostructures. Nature Photonics, 2019, 13, 131-136.	15.6	214
10	Giant spin Hall effect in graphene grown by chemical vapour deposition. Nature Communications, 2014, 5, 4748.	5.8	179
11	Defect induced, layer-modulated magnetism in ultrathin metallic PtSe2. Nature Nanotechnology, 2019, 14, 674-678.	15.6	162
12	Gate-tunable black phosphorus spin valve with nanosecond spin lifetimes. Nature Physics, 2017, 13, 888-893.	6.5	119
13	Valley-polarized exciton currents in a van der Waals heterostructure. Nature Nanotechnology, 2019, 14, 1104-1109.	15.6	116
14	Excitonic devices with van der Waals heterostructures: valleytronics meets twistronics. Nature Reviews Materials, 2022, 7, 449-464.	23.3	94
15	Optospintronics in Graphene <i>via</i> Proximity Coupling. ACS Nano, 2017, 11, 11678-11686.	7.3	73
16	van der Waals Force: A Dominant Factor for Reactivity of Graphene. Nano Letters, 2015, 15, 319-325.	4.5	65
17	Probing magnetism in atomically thin semiconducting PtSe2. Nature Communications, 2020, 11, 4806.	5.8	63
18	Electronic transport in graphene-based heterostructures. Applied Physics Letters, 2014, 104, .	1.5	61

#	Article	IF	Citations
19	Enhanced spinâ€“orbit coupling in dilute fluorinated graphene. 2D Materials, 2015, 2, 044009.	2.0	60
20	Direct observation of water-mediated single-proton transport between hBN surface defects. Nature Nanotechnology, 2020, 15, 598-604.	15.6	52
21	van der Waals Bonded Co/h-BN Contacts to Ultrathin Black Phosphorus Devices. Nano Letters, 2017, 17, 5361-5367.	4.5	48
22	Resolving the spin splitting in the conduction band of monolayer MoS2. Nature Communications, 2017, 8, 1938.	5.8	41
23	Electronic spin transport in dual-gated bilayer graphene. NPG Asia Materials, 2016, 8, e274-e274.	3.8	39
24	Reconfigurable Diodes Based on Vertical WSe₂ Transistors with van der Waals Bonded Contacts. Advanced Materials, 2018, 30, e1707200.	11.1	31
25	Engineering Optically Active Defects in Hexagonal Boron Nitride Using Focused Ion Beam and Water. ACS Nano, 2022, 16, 3695-3703.	7.3	28
26	Quantum Transport Detected by Strong Proximity Interaction at a Grapheneâ€“WS2 van der Waals Interface. Nano Letters, 2015, 15, 5682-5688.	4.5	18
27	Anomalous interfacial dynamics of single proton charges in binary aqueous solutions. Science Advances, 2021, 7, eabg8568.	4.7	8
28	Highly anisotropic van der Waals magnetism. Nature Materials, 2022, 21, 731-733.	13.3	2