

# Ahmet Avsar

## 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.

26  
papers

2,644  
citations

21  
h-index

28  
g-index

28  
ext. papers

3,251  
ext. citations

21.8  
avg, IF

5.33  
L-index

#	Paper	IF	Citations
26	Anomalous interfacial dynamics of single proton charges in binary aqueous solutions. <i>Science Advances</i> , <b>2021</b> , 7, eabg8568	14.3	2
25	Logic-in-memory based on an atomically thin semiconductor. <i>Nature</i> , <b>2020</b> , 587, 72-77	50.4	94
24	Colloquium: Spintronics in graphene and other two-dimensional materials. <i>Reviews of Modern Physics</i> , <b>2020</b> , 92,	40.5	108
23	Direct observation of water-mediated single-proton transport between hBN surface defects. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 598-604	28.7	17
22	Probing magnetism in atomically thin semiconducting PtSe. <i>Nature Communications</i> , <b>2020</b> , 11, 4806	17.4	28
21	Defect induced, layer-modulated magnetism in ultrathin metallic PtSe. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 674-678	28.7	106
20	Valley-polarized exciton currents in a van der Waals heterostructure. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 1104-1109	28.7	63
19	Polarization switching and electrical control of interlayer excitons in two-dimensional van der Waals heterostructures. <i>Nature Photonics</i> , <b>2019</b> , 13, 131-136	33.9	134
18	Thickness-modulated metal-to-semiconductor transformation in a transition metal dichalcogenide. <i>Nature Communications</i> , <b>2018</b> , 9, 919	17.4	187
17	Reconfigurable Diodes Based on Vertical WSe Transistors with van der Waals Bonded Contacts. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707200	24	21
16	Room-temperature electrical control of exciton flux in a van der Waals heterostructure. <i>Nature</i> , <b>2018</b> , 560, 340-344	50.4	217
15	Gate-tunable black phosphorus spin valve with nanosecond spin lifetimes. <i>Nature Physics</i> , <b>2017</b> , 13, 888-893	80.3	91
14	Optospintronics in Graphene via Proximity Coupling. <i>ACS Nano</i> , <b>2017</b> , 11, 11678-11686	16.7	55
13	van der Waals Bonded Co/h-BN Contacts to Ultrathin Black Phosphorus Devices. <i>Nano Letters</i> , <b>2017</b> , 17, 5361-5367	11.5	37
12	Resolving the spin splitting in the conduction band of monolayer MoS. <i>Nature Communications</i> , <b>2017</b> , 8, 1938	17.4	26
11	Electronic spin transport in dual-gated bilayer graphene. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e274-e274	10.3	28
10	Air-stable transport in graphene-contacted, fully encapsulated ultrathin black phosphorus-based field-effect transistors. <i>ACS Nano</i> , <b>2015</b> , 9, 4138-45	16.7	393

9	Quantum Transport Detected by Strong Proximity Interaction at a Graphene-WS <sub>2</sub> van der Waals Interface. <i>Nano Letters</i> , <b>2015</b> , 15, 5682-8	11.5	16
8	Van der Waals force: a dominant factor for reactivity of graphene. <i>Nano Letters</i> , <b>2015</b> , 15, 319-25	11.5	49
7	Enhanced spin-orbit coupling in dilute fluorinated graphene. <i>2D Materials</i> , <b>2015</b> , 2, 044009	5.9	44
6	Electronic transport in graphene-based heterostructures. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 183504	3.4	58
5	Giant spin Hall effect in graphene grown by chemical vapour deposition. <i>Nature Communications</i> , <b>2014</b> , 5, 4748	17.4	143
4	Spin-orbit proximity effect in graphene. <i>Nature Communications</i> , <b>2014</b> , 5, 4875	17.4	321
3	Observation of long spin-relaxation times in bilayer graphene at room temperature. <i>Physical Review Letters</i> , <b>2011</b> , 107, 047206	7.4	200
2	Toward wafer scale fabrication of graphene based spin valve devices. <i>Nano Letters</i> , <b>2011</b> , 11, 2363-8	11.5	189
1	Excitonic devices with van der Waals heterostructures: valleytronics meets twistrionics. <i>Nature Reviews Materials</i> ,	73.3	15