

CÃ©line Vergnaud

List of Publications by Year in descending order

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33
papers

997
citations

471371

17
h-index

434063

31
g-index

33
all docs

33
docs citations

33
times ranked

1580
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin to Charge Conversion at Room Temperature by Spin Pumping into a New Type of Topological Insulator: \hat{I}_{\pm} -Sn Films. Physical Review Letters, 2016, 116, 096602.	2.9	288
2	Crossover from Spin Accumulation into Interface States to Spin Injection in the Germanium Conduction Band. Physical Review Letters, 2012, 109, 106603.	2.9	76
3	Electrical spin injection and detection at Al ₂ O ₃ /n-type germanium interface using three terminal geometry. Applied Physics Letters, 2011, 99, 162102.	1.5	61
4	Beyond van der Waals Interaction: The Case of MoSe ₂ Epitaxially Grown on Few-Layer Graphene. ACS Nano, 2018, 12, 2319-2331.	7.3	46
5	Observation of Large Unidirectional Rashba Magnetoresistance in Ge(111). Physical Review Letters, 2020, 124, 027201.	2.9	42
6	Large-scale epitaxy of two-dimensional van der Waals room-temperature ferromagnet Fe ₅ GeTe ₂ . Npj 2D Materials and Applications, 2022, 6, .	3.9	37
7	van der Waals epitaxy of Mn-doped MoSe ₂ on mica. APL Materials, 2019, 7, .	2.2	31
8	Millimeter-scale layered MoSe ₂ grown on sapphire and evidence for negative magnetoresistance. Applied Physics Letters, 2017, 110, .	1.5	29
9	Spin-Hall Voltage over a Large Length Scale in Bulk Germanium. Physical Review Letters, 2017, 118, 167402.	2.9	29
10	Electrical and thermal spin accumulation in germanium. Applied Physics Letters, 2012, 101, .	1.5	28
11	The valley Nernst effect in WSe ₂ . Nature Communications, 2019, 10, 5796.	5.8	28
12	Spin transport in <i>p</i> -type germanium. Journal of Physics Condensed Matter, 2016, 28, 165801.	0.7	25
13	Imaging spin diffusion in germanium at room temperature. Physical Review B, 2017, 96, .	1.1	22
14	Tuning spin-charge interconversion with quantum confinement in ultrathin bismuth films. Physical Review B, 2018, 98, .	1.1	20
15	Control of spin-charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	2.2	20
16	Non-local electrical spin injection and detection in germanium at room temperature. Applied Physics Letters, 2017, 111, .	1.5	19
17	Spin-to-charge conversion for hot photoexcited electrons in germanium. Physical Review B, 2018, 97, .	1.1	18
18	Magnetotransport in Bi ₂ Se ₃ thin films epitaxially grown on Ge(111). AIP Advances, 2018, 8, 115125.	0.6	17

#	ARTICLE	IF	CITATIONS
19	Impact of a van der Waals interface on intrinsic and extrinsic defects in an MoSe ₂ monolayer. Nanotechnology, 2018, 29, 425706.	1.3	16
20	Comparison of the use of NiFe and CoFe as electrodes for metallic lateral spin valves. Nanotechnology, 2016, 27, 035201.	1.3	15
21	In-plane and out-of-plane spin precession in lateral spin-valves. Applied Physics Letters, 2013, 102, 132408.	1.5	14
22	New approach for the molecular beam epitaxy growth of scalable WSe ₂ monolayers. Nanotechnology, 2020, 31, 255602.	1.3	14
23	Ferromagnetic tunnel contacts to graphene: Contact resistance and spin signal. Journal of Applied Physics, 2015, 117, .	1.1	12
24	Charge transfers and charged defects in WSe ₂ /graphene-SiC interfaces. Nanotechnology, 2020, 31, 255709.	1.3	12
25	Evidence for highly p-type doping and type II band alignment in large scale monolayer WSe ₂ /Se-terminated GaAs heterojunction grown by molecular beam epitaxy. Nanoscale, 2022, 14, 5859-5868.	2.8	12
26	Effect of crystallinity and thickness on thermal transport in layered PtSe ₂ . Npj 2D Materials and Applications, 2022, 6, .	3.9	12
27	Giant magnetoresistance in lateral metallic nanostructures for spintronic applications. Scientific Reports, 2017, 7, 9553.	1.6	11
28	Spin orbitronics at a topological insulator-semiconductor interface. Physical Review B, 2020, 101, .	1.1	11
29	High carrier mobility in single-crystal PtSe ₂ grown by molecular beam epitaxy on ZnO(0001). 2D Materials, 2022, 9, 015015.	2.0	10
30	Van der Waals solid phase epitaxy to grow large-area manganese-doped MoSe ₂ few-layers on SiO ₂ /Si. 2D Materials, 2019, 6, 035019.	2.0	8
31	Observation of the Hanle effect in giant magnetoresistance measurements. Applied Physics Letters, 2018, 112, .	1.5	6
32	Ferromagnetism and Rashba Spin-Orbit Coupling in the Two-Dimensional (V,Pt)Se ₂ Alloy. ACS Applied Electronic Materials, 2022, 4, 259-268.	2.0	5
33	The search for manganese incorporation in MoSe ₂ monolayer epitaxially grown on graphene. Comptes Rendus Physique, 2021, 22, 5-21.	0.3	3