

Matthieu Jamet

List of Publications by Year in descending order

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61
papers

2,214
citations

304602

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all docs

61
docs citations

61
times ranked

2766
citing authors

#	ARTICLE	IF	CITATIONS
1	High carrier mobility in single-crystal PtSe ₂ grown by molecular beam epitaxy on ZnO(0001). 2D Materials, 2022, 9, 015015.	2.0	10
2	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
3	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
4	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
5	Effect of crystallinity and thickness on thermal transport in layered PtSe ₂ . Npj 2D Materials and Applications, 2022, 6, .	3.9	12
6	Two-dimensional materials prospects for non-volatile spintronic memories. Nature, 2022, 606, 663-673.	13.7	116
7	Large Rashba unidirectional magnetoresistance in the Fe/Ge(111) interface states. Physical Review B, 2021, 103, .	1.1	15
8	The search for manganese incorporation in MoSe ₂ monolayer epitaxially grown on graphene. Comptes Rendus Physique, 2021, 22, 5-21.	0.3	3
9	Electrical Detection of Magnetic Circular Dichroism: Application to Magnetic Microscopy in Ultrathin Ferromagnetic Films. Physical Review Applied, 2021, 15, .	1.5	2
10	Control of spin-charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	2.2	20
11	Bound Hole States Associated to Individual Vanadium Atoms Incorporated into Monolayer WSe ₂ . Physical Review Letters, 2020, 125, 036802.	2.9	26
12	Synthesis of epitaxial monolayer Janus SPtSe. Npj 2D Materials and Applications, 2020, 4, .	3.9	55
13	Spin orbitronics at a topological insulator-semiconductor interface. Physical Review B, 2020, 101, .	1.1	11
14	Charge transfers and charged defects in WSe ₂ /graphene-SiC interfaces. Nanotechnology, 2020, 31, 255709.	1.3	12
15	New approach for the molecular beam epitaxy growth of scalable WSe ₂ monolayers. Nanotechnology, 2020, 31, 255602.	1.3	14
16	Observation of Large Unidirectional Rashba Magnetoresistance in Ge(111). Physical Review Letters, 2020, 124, 027201.	2.9	42
17	van der Waals epitaxy of Mn-doped MoSe ₂ on mica. APL Materials, 2019, 7, .	2.2	31
18	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

#	ARTICLE	IF	CITATIONS
19	The valley Nernst effect in WSe ₂ . Nature Communications, 2019, 10, 5796.	5.8	28
20	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
21	Spin-to-charge conversion for hot photoexcited electrons in germanium. Physical Review B, 2018, 97, .	1.1	18
22	Magnetotransport in Bi ₂ Se ₃ thin films epitaxially grown on Ge(111). AIP Advances, 2018, 8, 115125.	0.6	17
23	Tuning spin-charge interconversion with quantum confinement in ultrathin bismuth films. Physical Review B, 2018, 98, .	1.1	20
24	Band-bending induced by charged defects and edges of atomically thin transition metal dichalcogenide films. 2D Materials, 2018, 5, 035034.	2.0	23
25	Impact of a van der Waals interface on intrinsic and extrinsic defects in an MoSe ₂ monolayer. Nanotechnology, 2018, 29, 425706.	1.3	16
26	Millimeter-scale layered MoSe ₂ grown on sapphire and evidence for negative magnetoresistance. Applied Physics Letters, 2017, 110, .	1.5	29
27	Non-local electrical spin injection and detection in germanium at room temperature. Applied Physics Letters, 2017, 111, .	1.5	19
28	Scanning tunneling spectroscopy of van der Waals graphene/semiconductor interfaces: absence of Fermi level pinning. 2D Materials, 2017, 4, 035019.	2.0	52
29	Imaging spin diffusion in germanium at room temperature. Physical Review B, 2017, 96, .	1.1	22
30	Spin-Hall Voltage over a Large Length Scale in Bulk Germanium. Physical Review Letters, 2017, 118, 167402.	2.9	29
31	Evidence for spin-to-charge conversion by Rashba coupling in metallic states at the Fe/Ge(111) interface. Nature Communications, 2016, 7, 13857.	5.8	36
32	Spin to Charge Conversion at Room Temperature by Spin Pumping into a New Type of Topological Insulator: \pm -Sn Films. Physical Review Letters, 2016, 116, 096602.	2.9	288
33	Core-shell nanostructure in a $\text{Ge}_{1-x}\text{Mn}_x$ observed via structural and magnetic measurements. Physical Review B, 2015, 91, .	0.9	1
34	Spin diffusion in Pt as probed by optically generated spin currents. Physical Review B, 2015, 92, .	1.1	14
35	Spinodal nanodecomposition in semiconductors doped with transition metals. Reviews of Modern Physics, 2015, 87, 1311-1377.	16.4	152
36	X-ray magnetic circular dichroism in (Ge,Mn) compounds: Experiments and modeling. Journal of Magnetism and Magnetic Materials, 2014, 354, 151-158.	1.0	3

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37	Spin pumping and inverse spin Hall effect in germanium. <i>Physical Review B</i> , 2013, 88, .	1.1	72
38	Transition from spin accumulation into interface states to spin injection in silicon and germanium conduction bands. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	5
39	Silicide formation during Mn doping of Ge/Si (001) self-assembled quantum dots. <i>Journal of Materials Research</i> , 2013, 28, 3210-3217.	1.2	0
40	Ge _{1-x} Mn _x heteroepitaxial quantum dots: Growth, morphology, and magnetism. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	18
41	Structure and magnetism in strained Ge _{1-x} Sn _x /Mn _y films grown on Ge(001) by low temperature molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	1
42	Mn solid solutions in self-assembled Ge/Si (001) quantum dot heterostructures. <i>Applied Physics Letters</i> , 2012, 101, 242407.	1.5	10
43	Electrical and thermal spin accumulation in germanium. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	28
44	Crossover from Spin Accumulation into Interface States to Spin Injection in the Germanium Conduction Band. <i>Physical Review Letters</i> , 2012, 109, 106603.	2.9	76
45	Interface-driven phase separation in multifunctional materials: The case of the ferromagnetic semiconductor GeMn. <i>Physical Review B</i> , 2012, 85, .	1.1	22
46	Modeling magnetotransport in inhomogeneous (Ge,Mn) films. <i>Journal of Applied Physics</i> , 2011, 109, 123906.	1.1	6
47	Structure and magnetism of Ge ₃ Mn ₅ clusters. <i>Journal of Applied Physics</i> , 2011, 109, 013911.	1.1	17
48	Electrical spin injection and detection at Al ₂ O ₃ /n-type germanium interface using three terminal geometry. <i>Applied Physics Letters</i> , 2011, 99, 162102.	1.5	61
49	Magnetic anisotropy of (Ge,Mn) nanostructures. <i>Journal of Physics: Conference Series</i> , 2011, 292, 012011.	0.3	0
50	(Ge,Mn): A ferromagnetic semiconductor for spin injection in silicon. <i>International Journal of Nanotechnology</i> , 2010, 7, 575.	0.1	1
51	Investigation of magnetic anisotropy of (Ge,Mn) nanocolumns. <i>Applied Physics Letters</i> , 2010, 97, 202502.	1.5	13
52	Exchange bias in GeMn nanocolumns: The role of surface oxidation. <i>Applied Physics Letters</i> , 2010, 97, 062501.	1.5	13
53	Spinodal decomposition to control magnetotransport in (Ge,Mn) films. <i>Physical Review B</i> , 2010, 82, .	1.1	23
54	Strain and correlation of self-organized Ge_xMn_y embedded in Ge (001). <i>Physical Review B</i> , 2010, 82, .	1.1	16

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55	Spin injection in silicon at zero magnetic field. Applied Physics Letters, 2009, 94, .	1.5	49
56	Epitaxial growth of Mn ₅ Ge ₃ /Ge(111) heterostructures for spin injection. Thin Solid Films, 2008, 517, 191-196.	0.8	66
57	Atomic structure of Mn-rich nanocolumns probed by x-ray absorption spectroscopy. Applied Physics Letters, 2008, 92, .	1.5	20
58	Structure and magnetism of self-organized $\text{Ge}_{1-x}\text{Mn}_x$ nano-pillars. Physical Review B, 2007, 76, .	1.1	90
59	Structural and magnetic properties of GeMn layers; High Curie temperature ferromagnetism induced by self organized GeMn nano-columns. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 130-135.	0.8	12
60	Ferromagnetism of self-organized $\text{Ge}_{1-x}\text{Mn}_x$ nano-pillars. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4123-4126.	0.8	3
61	High-Curie-temperature ferromagnetism in self-organized $\text{Ge}_{1-x}\text{Mn}_x$ nanocolumns. Nature Materials, 2006, 5, 653-659.	13.3	341