

# Matthieu Jamet

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,214  
citations

304602

22  
h-index

223716

46  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2766  
citing authors



| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Spin-Hall Voltage over a Large Length Scale in Bulk Germanium. <i>Physical Review Letters</i> , 2017, 118, 167402.                                       | 2.9 | 29        |
| 20 | Electrical and thermal spin accumulation in germanium. <i>Applied Physics Letters</i> , 2012, 101, .   | 1.5 | 28        |
| 21 | The valley Nernst effect in WSe <sub>2</sub> . <i>Nature Communications</i> , 2019, 10, 5796.  | 5.8 | 28        |
| 22 | Bound Hole States Associated to Individual Vanadium Atoms Incorporated into Monolayer $WSe_2$ . <i>Physical Review Letters</i> , 2020, 125, 036802.      | 2.9 | 26        |
| 23 | Spinodal decomposition to control magnetotransport in (Ge,Mn) films. <i>Physical Review B</i> , 2010, 82, .  | 1.1 | 23        |
| 24 | Band-bending induced by charged defects and edges of atomically thin transition metal dichalcogenide films. <i>2D Materials</i> , 2018, 5, 035034.       | 2.0 | 23        |
| 25 | Interface-driven phase separation in multifunctional materials: The case of the ferromagnetic semiconductor GeMn. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 22        |
| 26 | Imaging spin diffusion in germanium at room temperature. <i>Physical Review B</i> , 2017, 96, .  | 1.1 | 22        |
| 27 | Atomic structure of Mn-rich nanocolumns probed by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2008, 92, .                            | 1.5 | 20        |
| 28 | Tuning spin-charge interconversion with quantum confinement in ultrathin bismuth films. <i>Physical Review B</i> , 2018, 98, .                           | 1.1 | 20        |
| 29 | Control of spin-charge conversion in van der Waals heterostructures. <i>APL Materials</i> , 2021, 9, .   | 2.2 | 20        |
| 30 | Non-local electrical spin injection and detection in germanium at room temperature. <i>Applied Physics Letters</i> , 2017, 111, .                        | 1.5 | 19        |
| 31 | Ge <sub>1-x</sub> Mnx heteroepitaxial quantum dots: Growth, morphology, and magnetism. <i>Journal of Applied Physics</i> , 2013, 113, .                  | 1.1 | 18        |
| 32 | Spin-to-charge conversion for hot photoexcited electrons in germanium. <i>Physical Review B</i> , 2018, 97, .  | 1.1 | 18        |
| 33 | Structure and magnetism of Ge <sub>3</sub> Mn <sub>5</sub> clusters. <i>Journal of Applied Physics</i> , 2011, 109, 013911.                              | 1.1 | 17        |
| 34 | Magnetotransport in Bi <sub>2</sub> Se <sub>3</sub> thin films epitaxially grown on Ge(111). <i>AIP Advances</i> , 2018, 8, 115125.                      | 0.6 | 17        |
| 35 | Strain and correlation of self-organized $Ge_3Mn_5$ clusters embedded in Ge (001). <i>Physical Review B</i> , 2010, 82, .                                | 1.1 | 16        |
| 36 | Impact of a van der Waals interface on intrinsic and extrinsic defects in an MoSe <sub>2</sub> monolayer. <i>Nanotechnology</i> , 2018, 29, 425706.      | 1.3 | 16        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Large Rashba unidirectional magnetoresistance in the Fe/Ge(111) interface states. Physical Review B, 2021, 103, .   | 1.1 | 15        |
| 38 | Spin diffusion in Pt as probed by optically generated spin currents. Physical Review B, 2015, 92, .   | 1.1 | 14        |
| 39 | New approach for the molecular beam epitaxy growth of scalable WSe <sub>2</sub> monolayers. Nanotechnology, 2020, 31, 255602.   | 1.3 | 14        |
| 40 | Investigation of magnetic anisotropy of (Ge,Mn) nanocolumns. Applied Physics Letters, 2010, 97, 202502.   | 1.5 | 13        |
| 41 | Exchange bias in GeMn nanocolumns: The role of surface oxidation. Applied Physics Letters, 2010, 97, 062501.  | 1.5 | 13        |
| 42 | 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        |
| 43 | Charge transfers and charged defects in WSe <sub>2</sub> /graphene-SiC interfaces. Nanotechnology, 2020, 31, 255709.  | 1.3 | 12        |
| 44 | Evidence for highly p-type doping and type II band alignment in large scale monolayer WSe <sub>2</sub> /Se-terminated GaAs heterojunction grown by molecular beam epitaxy. Nanoscale, 2022, 14, 5859-5868.              | 2.8 | 12        |
| 45 | Effect of crystallinity and thickness on thermal transport in layered PtSe <sub>2</sub> . Npj 2D Materials and Applications, 2022, 6, .   | 3.9 | 12        |
| 46 | Spin orbitronics at a topological insulator-semiconductor interface. Physical Review B, 2020, 101, .  | 1.1 | 11        |
| 47 | Mn solid solutions in self-assembled Ge/Si (001) quantum dot heterostructures. Applied Physics Letters, 2012, 101, 242407.  | 1.5 | 10        |
| 48 | High carrier mobility in single-crystal PtSe <sub>2</sub> grown by molecular beam epitaxy on ZnO(0001). 2D Materials, 2022, 9, 015015.  | 2.0 | 10        |
| 49 | Core-shell nanostructure in a $\text{Ge}_{1-x}\text{Mn}_x$ observed via structural and magnetic measurements. Physical Review B, 2015, 91, .  |     |           |
| 50 | Van der Waals solid phase epitaxy to grow large-area manganese-doped MoSe <sub>2</sub> few-layers on SiO <sub>2</sub> /Si. 2D Materials, 2019, 6, 035019.   | 2.0 | 8         |
| 51 | Modeling magnetotransport in inhomogeneous (Ge,Mn) films. Journal of Applied Physics, 2011, 109, 123906.  | 1.1 | 6         |
| 52 | Transition from spin accumulation into interface states to spin injection in silicon and germanium conduction bands. European Physical Journal B, 2013, 86, 1.  | 0.6 | 5         |
| 53 | Ferromagnetism and Rashba Spin-Orbit Coupling in the Two-Dimensional (V,Pt)Se <sub>2</sub> Alloy. ACS Applied Electronic Materials, 2022, 4, 259-268.   | 2.0 | 5         |
| 54 | Ferromagnetism of self-organized Ge <sub>1-x</sub> Mn <sub>x</sub> nano-pillars. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4123-4126.  | 0.8 | 3         |

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|----|---|-----|-----------|
| 55 | 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         |
| 56 | The search for manganese incorporation in $\text{MoSe}_2$ monolayer epitaxially grown on graphene. Comptes Rendus Physique, 2021, 22, 5-21.                                     | 0.3 | 3         |
| 57 | Electrical Detection of Magnetic Circular Dichroism: Application to Magnetic Microscopy in Ultrathin Ferromagnetic Films. Physical Review Applied, 2021, 15, .                  | 1.5 | 2         |
| 58 | (Ge,Mn): A ferromagnetic semiconductor for spin injection in silicon. International Journal of Nanotechnology, 2010, 7, 575.  | 0.1 | 1         |
| 59 | Structure and magnetism in strained $\text{Ge}_x\text{Sn}_y\text{Mn}_z$ films grown on Ge(001) by low temperature molecular beam epitaxy. Applied Physics Letters, 2013, 103, . | 1.5 | 1         |
| 60 | Magnetic anisotropy of (Ge,Mn) nanostructures. Journal of Physics: Conference Series, 2011, 292, 012011.  | 0.3 | 0         |
| 61 | Silicide formation during Mn doping of Ge/Si (001) self-assembled quantum dots. Journal of Materials Research, 2013, 28, 3210-3217.   | 1.2 | 0         |