

Jean-Christophe Charlier

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Electronic and vibrational properties of $\sqrt{2} \times \sqrt{2}$ -based MXenes: From experiments to first-principles modeling. <i>Physical Review B</i> , 2018, 97, .	3.2	162
2	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , 2021, 590, 405-409.	27.8	139
3	Electronic and optical properties of pristine and oxidized borophene. <i>2D Materials</i> , 2016, 3, 045006.	4.4	123
4	Two-Dimensional Graphene with Structural Defects: Elastic Mean Free Path, Minimum Conductivity, and Anderson Transition. <i>Physical Review Letters</i> , 2011, 106, 046803.	7.8	105
5	Insulator-to-Metallic Spin-Filtering in 2D-Magnetic Tunnel Junctions Based on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2018, 12, 4712-4718.	14.6	88
6	Physical properties of 2D MXenes: from a theoretical perspective. <i>JPhys Materials</i> , 2021, 3, 032006.	4.2	67
7	Electronic and Transport Properties in Defective MoS_2 : Impact of Sulfur Vacancies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15076-15084.	3.1	46
8	Band-Structure Spin-Filtering in Vertical Spin Valves Based on Chemical Vapor Deposited WS_2 . <i>ACS Nano</i> , 2019, 13, 14468-14476.	14.6	44
9	Spin filtering by proximity effects at hybridized interfaces in spin-valves with 2D graphene barriers. <i>Nature Communications</i> , 2020, 11, 5670.	12.8	37
10	Band-Gap Landscape Engineering in Large-Scale 2D Semiconductor van der Waals Heterostructures. <i>ACS Nano</i> , 2021, 15, 7279-7289.	14.6	28
11	Electronic localization in small-angle twisted bilayer graphene. <i>2D Materials</i> , 2021, 8, 035046.	4.4	25
12	Ab initio infrared vibrational modes for neutral and charged small fullerenes (C) $\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 312 Td}$ (<i>ACS Nano</i>). <i>ACS Nano</i> , 2016, 10, 20150323.	3.4	20
13	Achievements of DFT for the Investigation of Graphene-Related Nanostructures. <i>Accounts of Chemical Research</i> , 2014, 47, 3292-3300.	15.6	15
14	Universal Spin Diffusion Length in Polycrystalline Graphene. <i>Nano Letters</i> , 2019, 19, 7418-7426.	9.1	15
15	Path to Overcome Material and Fundamental Obstacles in Spin Valves Based on MoS_2 and Other Transition-Metal Dichalcogenides. <i>Physical Review Applied</i> , 2019, 12, .	3.8	13
16	Electronic properties of twisted multilayer graphene. <i>JPhys Materials</i> , 2022, 5, 034003.	4.2	11
17	Ab initio quantum transport in polycrystalline graphene. <i>Nanoscale</i> , 2018, 10, 7759-7768.	5.6	8
18	Atomistic simulations of charge transport in photoswitchable organic-graphene hybrids. <i>JPhys Materials</i> , 2019, 2, 035001.	4.2	7

#	ARTICLE	IF	CITATIONS
19	Basic properties and hardness values of $\sqrt{V} \cdot AIC$ and $C \cdot r$	2.4	4
20	Computational Atomistic Modeling in Carbon Flatland and Other 2D Nanomaterials. Applied Sciences (Switzerland), 2020, 10, 1724.	2.5	2
21	Organic-Inorganic Hybrid Interfaces for Spin Injection into Carbon Nanotubes and Graphene. Advanced Quantum Technologies, 2022, 5, .	3.9	1