

Jean-Christophe Charlier

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/11658050/jean-christophe-charlier-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

2,919
citations

13
h-index

34
g-index

34
ext. papers

3,191
ext. citations

9.9
avg, IF

4.9
L-index

#	Paper	IF	Citations
31	Quantum Transport beyond DC 2020 , 278-292		
30	Introduction to Graphene-Based Nanomaterials: From Electronic Structure to Quantum Transport 2020 ,		10
29	Electronic Structure Calculations: The Density Functional Theory (DFT) 2020 , 354-372		
28	Introduction to Carbon-Based Nanostructures 2020 , 1-10		
27	The New Family of Two-Dimensional Materials and van der Waals Heterostructures 2020 , 70-91		
26	Quantum Transport: General Concepts 2020 , 92-119		
25	Klein Tunneling and Ballistic Transport in Graphene and Related Materials 2020 , 120-144		
24	Quantum Transport in Disordered Graphene-Based Materials 2020 , 145-209		
23	Electronic Properties of Carbon-Based Nanostructures 2020 , 11-69		
22	Quantum Hall Effects in Graphene 2020 , 210-236		
21	Spin-Related Phenomena 2020 , 237-277		
20	Ab Initio and Multiscale Quantum Transport in Graphene-Based Materials 2020 , 293-353		
19	Electronic Structure Calculations: The Many-Body Perturbation Theory (MBPT) 2020 , 373-378		
18	Green's Functions and Ab Initio Quantum Transport in the Landauer-Büttiker Formalism 2020 , 379-400		
17	Recursion Methods for Computing the Density of States (DOS) and Wavepacket Dynamics 2020 , 401-412		
16	Large phosphorene in-plane contraction induced by interlayer interactions in graphene-phosphorene heterostructures. <i>Physical Review Materials</i> , 2018 , 2,	3.2	7
15	Charge transport through one-dimensional Moiré crystals. <i>Scientific Reports</i> , 2016 , 6, 19701	4.9	14

14	Transport regimes in nitrogen-doped carbon nanotubes: Perfect order, semi-random, and random disorder cases. <i>Physical Review B</i> , 2015 , 91,	3.3	6
13	Quantum transport in disordered graphene: A theoretical perspective. <i>Solid State Communications</i> , 2012 , 152, 1404-1410	1.6	72
12	Transport properties of graphene containing structural defects. <i>Physical Review B</i> , 2012 , 86,	3.3	122
11	Gas sensing with Au-decorated carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 4592-9	16.7	212
10	Quantum transport in graphene nanonetworks. <i>Nano Letters</i> , 2011 , 11, 3058-64	11.5	55
9	Two-dimensional graphene with structural defects: elastic mean free path, minimum conductivity, and Anderson transition. <i>Physical Review Letters</i> , 2011 , 106, 046803	7.4	87
8	Quantum transport in graphene nanoribbons: effects of edge reconstruction and chemical reactivity. <i>ACS Nano</i> , 2010 , 4, 1971-6	16.7	83
7	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , 2010 , 5, 351-372	17.9	695
6	Electronic and transport properties of nanotubes. <i>Reviews of Modern Physics</i> , 2007 , 79, 677-732	40.5	1082
5	Electronic transport in carbon nanotubes with random coverage of physisorbed molecules. <i>Nano Letters</i> , 2005 , 5, 2216-9	11.5	61
4	Mesoscopic transport in chemically doped carbon nanotubes. <i>Physical Review Letters</i> , 2004 , 92, 256805	7.4	200
3	Intrinsic electron transport properties of carbon nanotube Y-junctions. <i>Applied Physics Letters</i> , 2002 , 81, 5234-5236	3.4	66
2	Electronic structure of carbon nanocones. <i>Physical Review Letters</i> , 2001 , 86, 5970-3	7.4	147
1	Organic/Inorganic Hybrid Interfaces for Spin Injection into Carbon Nanotubes and Graphene. <i>Advanced Quantum Technologies</i> , 2100166	4.3	