

# Jean-Christophe Charlier

## List of Publications by Citations

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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	Electronic and transport properties of nanotubes. <i>Reviews of Modern Physics</i> , <b>2007</b> , 79, 677-732	40.5	1082
30	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , <b>2010</b> , 5, 351-372	17.9	695
29	Gas sensing with Au-decorated carbon nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 4592-9	16.7	212
28	Mesoscopic transport in chemically doped carbon nanotubes. <i>Physical Review Letters</i> , <b>2004</b> , 92, 256805	7.4	200
27	Electronic structure of carbon nanocones. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5970-3	7.4	147
26	Transport properties of graphene containing structural defects. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	122
25	Two-dimensional graphene with structural defects: elastic mean free path, minimum conductivity, and Anderson transition. <i>Physical Review Letters</i> , <b>2011</b> , 106, 046803	7.4	87
24	Quantum transport in graphene nanoribbons: effects of edge reconstruction and chemical reactivity. <i>ACS Nano</i> , <b>2010</b> , 4, 1971-6	16.7	83
23	Quantum transport in disordered graphene: A theoretical perspective. <i>Solid State Communications</i> , <b>2012</b> , 152, 1404-1410	1.6	72
22	Intrinsic electron transport properties of carbon nanotube Y-junctions. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 5234-5236	3.4	66
21	Electronic transport in carbon nanotubes with random coverage of physisorbed molecules. <i>Nano Letters</i> , <b>2005</b> , 5, 2216-9	11.5	61
20	Quantum transport in graphene nanonetworks. <i>Nano Letters</i> , <b>2011</b> , 11, 3058-64	11.5	55
19	Charge transport through one-dimensional Moiré crystals. <i>Scientific Reports</i> , <b>2016</b> , 6, 19701	4.9	14
18	Introduction to Graphene-Based Nanomaterials: From Electronic Structure to Quantum Transport <b>2020</b> ,		10
17	Large phosphorene in-plane contraction induced by interlayer interactions in graphene-phosphorene heterostructures. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	7
16	Transport regimes in nitrogen-doped carbon nanotubes: Perfect order, semi-random, and random disorder cases. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	6
15	Quantum Transport beyond DC <b>2020</b> , 278-292		

- 14 Electronic Structure Calculations: The Density Functional Theory (DFT) **2020**, 354-372
- 13 Introduction to Carbon-Based Nanostructures **2020**, 1-10
- 12 The New Family of Two-Dimensional Materials and van der Waals Heterostructures **2020**, 70-91
- 11 Quantum Transport: General Concepts **2020**, 92-119
- 10 Klein Tunneling and Ballistic Transport in Graphene and Related Materials **2020**, 120-144
- 9 Quantum Transport in Disordered Graphene-Based Materials **2020**, 145-209
- 8 Electronic Properties of Carbon-Based Nanostructures **2020**, 11-69
- 7 Quantum Hall Effects in Graphene **2020**, 210-236
- 6 Spin-Related Phenomena **2020**, 237-277
- 5 Ab Initio and Multiscale Quantum Transport in Graphene-Based Materials **2020**, 293-353
- 4 Electronic Structure Calculations: The Many-Body Perturbation Theory (MBPT) **2020**, 373-378
- 3 Green's Functions and Ab Initio Quantum Transport in the Landauer-Büttiker Formalism **2020**, 379-400
- 2 Recursion Methods for Computing the Density of States (DOS) and Wavepacket Dynamics **2020**, 401-412
- 1 Organic-Inorganic Hybrid Interfaces for Spin Injection into Carbon Nanotubes and Graphene. *Advanced Quantum Technologies*, 2100166 4-3