

Aurélien Lherbier

List of Publications by Year in descending order

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31
papers

2,064
citations

394421

19
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

3064
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant spin signals in chemically functionalized multiwall carbon nanotubes. Science Advances, 2020, 6, eaba5494.	10.3	4
2	Electronic and Transport Properties in Defective MoS ₂ : Impact of Sulfur Vacancies. Journal of Physical Chemistry C, 2020, 124, 15076-15084.	3.1	46
3	Computational Atomistic Modeling in Carbon Flatland and Other 2D Nanomaterials. Applied Sciences (Switzerland), 2020, 10, 1724.	2.5	2
4	Strain Modulated Superlattices in Graphene. Nano Letters, 2020, 20, 3113-3121.	9.1	46
5	(Invited) Charge Carrier Transport and Separation in Pristine and Nitrogen-Doped Graphene Nanowiggle Heterostructures. ECS Meeting Abstracts, 2020, MA2020-01, 736-736.	0.0	0
6	Atomistic simulations of charge transport in photoswitchable organic-graphene hybrids. JPhys Materials, 2019, 2, 035001.	4.2	7
7	Spin-dependent properties in zigzag graphene nanoribbons with phenyl-edge defects. Physical Review B, 2018, 98, .	3.2	34
8	Large phosphorene in-plane contraction induced by interlayer interactions in graphene-phosphorene heterostructures. Physical Review Materials, 2018, 2, .	2.4	11
9	Lithiation properties of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:msup} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:m} \rangle$ carbon allotropes. Physical Review Materials, 2018, 2, .	2.4	11
10	Thermal and electronic transport characteristics of highly stretchable graphene kirigami. Nanoscale, 2017, 9, 16329-16341.	5.6	28
11	Electronic and optical properties of pristine and oxidized borophene. 2D Materials, 2016, 3, 045006.	4.4	123
12	Charge transport through one-dimensional Moiré crystals. Scientific Reports, 2016, 6, 19701.	3.3	19
13	The electronic and transport properties of two-dimensional conjugated polymer networks including disorder. Nanoscale, 2016, 8, 1642-1651.	5.6	19
14	Chemical Makeup and Hydrophilic Behavior of Graphene Oxide Nanoribbons after Low-Temperature Fluorination. ACS Nano, 2015, 9, 7009-7018.	14.6	41
15	Transport regimes in nitrogen-doped carbon nanotubes: Perfect order, semi-random, and random disorder cases. Physical Review B, 2015, 91, .	3.2	7
16	Charge carrier transport and separation in pristine and nitrogen-doped graphene nanowiggle heterostructures. Carbon, 2015, 95, 833-842.	10.3	16
17	Three-dimensional massless Dirac fermions in carbon schwarzites. Physical Review B, 2014, 90, .	3.2	32
18	Achievements of DFT for the Investigation of Graphene-Related Nanostructures. Accounts of Chemical Research, 2014, 47, 3292-3300.	15.6	15

#	ARTICLE	IF	CITATIONS
19	Electronic and Transport Properties of Unbalanced Sublattice N-Doping in Graphene. Nano Letters, 2013, 13, 1446-1450.	9.1	110
20	Band widths and gaps from the Tran-Blaha functional: Comparison with many-body perturbation theory. Physical Review B, 2013, 87, .	3.2	125
21	Highly defective graphene: A key prototype of two-dimensional Anderson insulators. Nano Research, 2013, 6, 326-334.	10.4	59
22	Quantum transport in disordered graphene: A theoretical perspective. Solid State Communications, 2012, 152, 1404-1410.	1.9	93
23	Transport properties of graphene containing structural defects. Physical Review B, 2012, 86, .	3.2	157
24	Two-Dimensional Graphene with Structural Defects: Elastic Mean Free Path, Minimum Conductivity, and Anderson Transition. Physical Review Letters, 2011, 106, 046803.	7.8	105
25	Damaging Graphene with Ozone Treatment: A Chemically Tunable Metal-Insulator Transition. ACS Nano, 2010, 4, 4033-4038.	14.6	149
26	Atomistic Tight-Binding Approaches to Quantum Transport. , 2009, , .		2
27	Orientational Dependence of Charge Transport in Disordered Silicon Nanowires. Nano Letters, 2008, 8, 4146-4150.	9.1	90
28	Quantum transport length scales in silicon-based semiconducting nanowires: Surface roughness effects. Physical Review B, 2008, 77, .	3.2	51
29	Transport Length Scales in Disordered Graphene-Based Materials: Strong Localization Regimes and Dimensionality Effects. Physical Review Letters, 2008, 100, 036803.	7.8	192
30	Charge Transport in Chemically Doped 2D Graphene. Physical Review Letters, 2008, 101, 036808.	7.8	461
31	Transverse nonlocal effects in optical reorientation of nematic liquid crystals. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 36.	2.1	13