

Maxime Berthe

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

865
citations

516710

16
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1556
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and electrical conductivity of multilayer silicene. Applied Physics Letters, 2014, 104, .	3.3	136
2	High charge mobility in two-dimensional percolative networks of PbSe quantum dots connected by atomic bonds. Nature Communications, 2015, 6, 8195.	12.8	125
3	Faceting, composition and crystal phase evolution in III-V antimonide nanowire heterostructures revealed by combining microscopy techniques. Nanotechnology, 2012, 23, 095702.	2.6	95
4	Probing the Carrier Capture Rate of a Single Quantum Level. Science, 2008, 319, 436-438.	12.6	60
5	Electron Transport via Local Polarons at Interface Atoms. Physical Review Letters, 2006, 97, 206801.	7.8	50
6	Faceted sidewalls of silicon nanowires: Au-induced structural reconstructions and electronic properties. Physical Review B, 2010, 81, .	3.2	47
7	Reversible Defect Engineering of Single-Walled Carbon Nanotubes Using Scanning Tunneling Microscopy. Nano Letters, 2007, 7, 3623-3627.	9.1	46
8	Resolving the Controversial Existence of Silicene and Germanene Nanosheets Grown on Graphite. ACS Nano, 2018, 12, 4754-4760.	14.6	35
9	Coulomb Energy Determination of a Single Si Dangling Bond. Physical Review Letters, 2010, 105, 226404.	7.8	34
10	Investigation of the negative differential resistance reproducibility in AlN/GaN double-barrier resonant tunnelling diodes. Applied Physics Letters, 2011, 99, 182109.	3.3	34
11	Band offsets at zincblende-wurtzite GaAs nanowire sidewall surfaces. Applied Physics Letters, 2013, 103, .	3.3	28
12	Persistent enhancement of the carrier density in electron irradiated InAs nanowires. Nanotechnology, 2013, 24, 275706.	2.6	25
13	Functionalization of Silica Nanoparticles and Native Silicon Oxide with Tailored Boron-Molecular Precursors for Efficient and Predictive p-Doping of Silicon. Journal of Physical Chemistry C, 2015, 119, 13750-13757.	3.1	25
14	Anisotropic Free-Electron-Like Dispersions and Standing Waves Realized in Self-Assembled Monolayers of Glycine on Cu(100). Journal of the American Chemical Society, 2007, 129, 740-741.	13.7	23
15	Engineering a Robust Flat Band in III-V Semiconductor Heterostructures. Nano Letters, 2021, 21, 680-685.	9.1	19
16	Scanning tunnelling spectroscopy and Raman spectroscopy of monolayer silicene on Ag(111). Surface Science, 2016, 653, 92-96.	1.9	17
17	Shallow Heavily Doped n++ Germanium by Organo-Antimony Monolayer Doping. ACS Applied Materials & Interfaces, 2017, 9, 20179-20187.	8.0	17
18	Type I band alignment in GaAs ₈₁ Sb ₁₉ /GaAs core-shell nanowires. Applied Physics Letters, 2015, 107, .	3.3	14

#	ARTICLE	IF	CITATIONS
19	Three dimensional resistance mapping of self-organized Sr ₃ V ₂ O ₈ nanorods on metallic perovskite SrVO ₃ matrix. Applied Surface Science, 2020, 510, 145522.	6.1	14
20	Nonstoichiometric Low-Temperature Grown GaAs Nanowires. Nano Letters, 2015, 15, 6440-6445.	9.1	9
21	Nanoscale Carrier Multiplication Mapping in a Si Diode. Nano Letters, 2014, 14, 5636-5640.	9.1	5
22	Importance of point defect reactions for the atomic-scale roughness of III-V nanowire sidewalls. Nanotechnology, 2019, 30, 324002.	2.6	5
23	Transport Properties of Methyl-Terminated Germanane Microcrystallites. Nanomaterials, 2022, 12, 1128.	4.1	1
24	Assessing the insulating properties of an ultrathin SrTiO ₃ shell grown around GaAs nanowires with molecular beam epitaxy. Nanotechnology, 0, , .	2.6	1