

Julien Chaste

List of Publications by Year in descending order

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34
papers

2,397
citations

361413

20
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

3541
citing authors

#	ARTICLE	IF	CITATIONS
1	A nanomechanical mass sensor with yoctogram resolution. Nature Nanotechnology, 2012, 7, 301-304.	31.5	855
2	Nonlinear damping in mechanical resonators made from carbon nanotubes and graphene. Nature Nanotechnology, 2011, 6, 339-342.	31.5	555
3	Parametric Amplification and Self-Oscillation in a Nanotube Mechanical Resonator. Nano Letters, 2011, 11, 2699-2703.	9.1	96
4	Direct Observation of Large Quantum Interference Effect in Anthraquinone Solid-State Junctions. Journal of the American Chemical Society, 2013, 135, 10218-10221.	13.7	72
5	Single Carbon Nanotube Transistor at GHz Frequency. Nano Letters, 2008, 8, 525-528.	9.1	68
6	Electronic band structure of Two-Dimensional WS_2 / Graphene van der Waals Heterostructures. Physical Review B, 2018, 97, .	3.2	63
7	Intrinsic Properties of Suspended MoS_2 on SiO_2/Si Pillar Arrays for Nanomechanics and Optics. ACS Nano, 2018, 12, 3235-3242.	14.6	62
8	Reconfigurable 2D/0D $Graphene/HgTe$ Nanocrystal Heterostructure for Infrared Detection. ACS Nano, 2020, 14, 4567-4576.	14.6	60
9	High-frequency nanotube mechanical resonators. Applied Physics Letters, 2011, 99, .	3.3	51
10	Van der Waals epitaxy of two-dimensional single-layer h-BN on graphite by molecular beam epitaxy: Electronic properties and band structure. Applied Physics Letters, 2018, 112, .	3.3	50
11	Valence band inversion and spin-orbit effects in the electronic structure of monolayer GaSe. Physical Review B, 2018, 98, .	3.2	47
12	Flat electronic bands in long sequences of rhombohedral-stacked graphene. Physical Review B, 2018, 97, .	3.2	46
13	Electrolytic phototransistor based on graphene-MoS ₂ van der Waals p-n heterojunction with tunable photoresponse. Applied Physics Letters, 2016, 109, .	3.3	41
14	Strong interlayer hybridization in the aligned SnS ₂ /WSe ₂ hetero-bilayer structure. Npj 2D Materials and Applications, 2019, 3, .	7.9	39
15	Indirect to direct band gap crossover in two-dimensional $WS_2(1-x)Se_2x$ alloys. Npj 2D Materials and Applications, 2021, 5, .	7.9	31
16	Bandgap inhomogeneity of MoS ₂ monolayer on epitaxial graphene bilayer in van der Waals p-n junction. Carbon, 2016, 110, 396-403.	10.3	27
17	Original Electrospun Core-Shell Nanostructured Magn ²⁺ Titanium Oxide Fibers and their Electrical Properties. Advanced Materials, 2014, 26, 2654-2658.	21.0	25
18	Evidence for a narrow band gap phase in 1T ⁺ WS ₂ nanosheet. Applied Physics Letters, 2019, 115, .	3.3	25

#	ARTICLE	IF	CITATIONS
19	Correlating Structure and Detection Properties in HgTe Nanocrystal Films. Nano Letters, 2021, 21, 4145-4151.	9.1	23
20	Atomic Monolayer Deposition on the Surface of Nanotube Mechanical Resonators. Physical Review Letters, 2014, 112, 196103.	7.8	21
21	Synthesis of ZnO sol-gel thin-films CMOS-Compatible. RSC Advances, 2021, 11, 22723-22733.	3.6	21
22	Evidence of direct electronic band gap in two-dimensional van der Waals indium selenide crystals. Physical Review Materials, 2019, 3, .	2.4	18
23	Gate tunable vertical geometry phototransistor based on infrared HgTe nanocrystals. Applied Physics Letters, 2020, 117, .	3.3	16
24	Nanostructures in suspended mono- and bilayer epitaxial graphene. Carbon, 2017, 125, 162-167.	10.3	13
25	Phase Transition in a Memristive Suspended MoS ₂ Monolayer Probed by Opto- and Electro-Mechanics. ACS Nano, 2020, 14, 13611-13618.	14.6	13
26	Strain and Spin-Orbit Coupling Engineering in Twisted WS ₂ /Graphene Heterobilayer. Nanomaterials, 2021, 11, 2921.	4.1	10
27	Thermal shot noise in top-gated single carbon nanotube field effect transistors. Applied Physics Letters, 2010, 96, .	3.3	9
28	2D Monolayer of the 1Tâ€™ Phase of Alloyed WSSe from Colloidal Synthesis. Journal of Physical Chemistry C, 2021, 125, 11058-11065.	3.1	9
29	Nanomechanical Strain Concentration on a Two-Dimensional Nanobridge within a Large Suspended Bilayer Graphene for Molecular Mass Detection. ACS Applied Nano Materials, 2018, 1, 6752-6759.	5.0	6
30	Structural and electronic transitions in few layers of isotopically pure hexagonal boron nitride. Physical Review B, 2020, 102, .	3.2	6
31	Multi-order phononic frequency comb generation within a MoS ₂ electromechanical resonator. Applied Physics Letters, 2021, 119, .	3.3	6
32	Electronic coupling in the F4-TCNQ/single-layer GaSe heterostructure. Physical Review Materials, 2019, 3, .	2.4	5
33	Graphene/fluorographene heterostructure for nano ribbon transistor channel. Semiconductor Science and Technology, 2020, 35, 015005.	2.0	4
34	Electronic band gap of van der Waals 1â€-As ₂ Te ₃ crystals. Applied Physics Letters, 2021, 119, .	3.3	4