

Kristen Kaasbjerg

List of Publications by Year in descending order

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29
papers

4,505
citations

304602

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477173

29
g-index

29
all docs

29
docs citations

29
times ranked

7421
citing authors

#	ARTICLE	IF	CITATIONS
1	The atomic simulation environmentâ€”a Python library for working with atoms. Journal of Physics Condensed Matter, 2017, 29, 273002.	0.7	1,933
2	Phonon-limited mobility in n -type single-layer MoS ₂ from first principles. Physical Review B, 2012, 85, .	1.1	1,033
3	Acoustic phonon limited mobility in two-dimensional semiconductors: Deformation potential and piezoelectric scattering in monolayer MoS ₂ from first principles. Physical Review B, 2013, 87, .	1.1	243
4	Bayesian Error Estimation in Density-Functional Theory. Physical Review Letters, 2005, 95, 216401.	2.9	163
5	Semiempirical model for nanoscale device simulations. Physical Review B, 2010, 82, .	1.1	158
6	Unraveling the acoustic electron-phonon interaction in graphene. Physical Review B, 2012, 85, .	1.1	122
7	Strong Polarization-Induced Reduction of Addition Energies in Single-Molecule Nanojunctions. Nano Letters, 2008, 8, 3809-3814.	4.5	112
8	Induced spin filtering in electron transmission through chiral molecular layers adsorbed on metals with strong spin-orbit coupling. Journal of Chemical Physics, 2013, 139, 114111.	1.2	92
9	Hot-electron cooling by acoustic and optical phonons in monolayers of n -type MoS ₂ and other transition-metal dichalcogenides. Physical Review B, 2014, 90, .	1.1	76
10	Electron attraction mediated by Coulomb repulsion. Nature, 2016, 535, 395-400.	13.7	71
11	Theory of Light Emission from Quantum Noise in Plasmonic Contacts: Above-Threshold Emission from Higher-Order Electron-Plasmon Scattering. Physical Review Letters, 2015, 114, 126803.	2.9	63
12	Enhanced interlayer neutral excitons and trions in trilayer van der Waals heterostructures. Npj 2D Materials and Applications, 2018, 2, .	3.9	44
13	Image charge effects in single-molecule junctions: Breaking of symmetries and negative-differential resistance in a benzene single-electron transistor. Physical Review B, 2011, 84, .	1.1	37
14	Charge-carrier-induced frequency renormalization, damping, and heating of vibrational modes in nanoscale junctions. Physical Review B, 2013, 88, .	1.1	35
15	Full counting statistics and shot noise of cotunneling in quantum dots and single-molecule transistors. Physical Review B, 2015, 91, .	1.1	35
16	Thermoelectrics in Coulomb-coupled quantum dots: Cotunneling and energy-dependent lead couplings. Physical Review B, 2017, 96, .	1.1	34
17	Flexural-Phonon Scattering Induced by Electrostatic Gating in Graphene. Physical Review Letters, 2017, 118, 046601.	2.9	32
18	Quantum Coherent Multielectron Processes in an Atomic Scale Contact. Physical Review Letters, 2017, 119, 066803.	2.9	31

#	ARTICLE	IF	CITATIONS
19	Correlated Coulomb Drag in Capacitively Coupled Quantum-Dot Structures. Physical Review Letters, 2016, 116, 196801.	2.9	30
20	Benchmarking GW against exact diagonalization for semiempirical models. Physical Review B, 2010, 81, .	1.1	27
21	Symmetry-forbidden intervalley scattering by atomic defects in monolayer transition-metal dichalcogenides. Physical Review B, 2017, 96, .	1.1	27
22	Assessing the accuracy of Kohn-Sham conductances using the Friedel sum rule. Physical Review B, 2010, 81, .	1.1	25
23	Electron and hole transport in disordered monolayer MoS_2 : Atomic vacancy induced short-range and Coulomb disorder scattering. Physical Review B, 2019, 100, .	1.1	20
24	Impact of Impurities on the Electrical Conduction of Anisotropic Two-Dimensional Materials. Physical Review Applied, 2020, 13, .	1.5	16
25	Atomistic T -matrix theory of disordered two-dimensional materials: Bound states, spectral properties, quasiparticle scattering, and transport. Physical Review B, 2020, 101, .	1.1	15
26	Fluctuation-driven Coulomb drag in interacting quantum dot systems. Physical Review B, 2019, 100, .	1.1	10
27	Tunable valley Hall effect in gate-defined graphene superlattices. Physical Review B, 2019, 100, .	1.1	9
28	Signatures of adatom effects in the quasiparticle spectrum of Li-doped graphene. Physical Review B, 2019, 100, .	1.1	8
29	Weak localization measurements of electronic scattering rates in Li-doped epitaxial graphene. Physical Review B, 2019, 100, .	1.1	4