Thomas Brumme

List of Publications by Year
in descending order

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22 papers	5,442 citations	623734 14 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	8379 citing authors

#	Article	IF	Citations
1	Advanced capabilities for materials modelling with Quantum ESPRESSO. Journal of Physics Condensed Matter, 2017, 29, 465901.	1.8	4,303
2	Visualizing the Spin of Individual Cobalt-Phthalocyanine Molecules. Physical Review Letters, 2008, 101, 116602.	7.8	228
3	Twist-angle-dependent interlayer exciton diffusion in WS2â€“WSe2 heterobilayers. Nature Materials, 2020, 19, 617-623.	27.5	193
4	First-principles theory of field-effect doping in transition-metal dichalcogenides: Structural properties, electronic structure, Hall coefficient, and electrical conductivity. Physical Review B, 2015, 91, .	3.2	127
5	Modeling Spin Transport in Helical Fields: Derivation of an Effective Low-Dimensional Hamiltonian. Journal of Physical Chemistry C, 2013, 117, 22276-22284.	3.1	103
6	Evidence for Flat Bands near the Fermi Level in Epitaxial Rhombohedral Multilayer Graphene. ACS Nano, 2015, 9, 5432-5439.	14.6	92
7	Momentum-Resolved View of Electron-Phonon Coupling in Multilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2017, 119, 036803.	7.8	74
8	Direct Observation of the Tunneling Channels of a Chemisorbed Molecule. Journal of Physical Chemistry Letters, 2010, 1, 1517-1523.	4.6	67
9	Coverage-Driven Electronic Decoupling of Fe-Phthalocyanine from a Ag(111) Substrate. Journal of Physical Chemistry C, 2011, 115, 12173-12179.	3.1	64
10	Electrochemical doping of few-layer ZrNCl from first principles: Electronic and structural properties in field-effect configuration. Physical Review B, 2014, 89, .	3.2	46
11	Stoneâ€“Wales Defects Cause High Proton Permeability and Isotope Selectivity of Singleâ€Layer Graphene. Advanced Materials, 2020, 32, e2002442.	21.0	32
12	Phosphoric Acid Catalyzed Formation of Hydrogen-Bonded o-Quinone Methides. Enantioselective Cycloaddition with Î²-Dicarbonyl Compounds toward Benzannulated Oxygen Heterocycles. Journal of Organic Chemistry, 2020, 85, 11699-11720.	3.2	27
13	Electronâ€“phonon-driven three-dimensional metallicity in an insulating cuprate. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6409-6416.	7.1	18
14	Anisotropic strain on phonons in a-plane GaN layers studied by Raman scattering. Journal of Materials Science: Materials in Electronics, 2008, 19, 51-57.	2.2	16
15	Atomic and electronic structure of trilayer graphene/SiC(0001): Evidence of Strong Dependence on Stacking Sequence and charge transfer. Scientific Reports, 2016, 6, 33487.	3.3	16
16	Dynamical bistability of single-molecule junctions: A combined experimental and theoretical study of PTCDA on Ag(111). Physical Review B, 2011, 84, .	3.2	12
17	Determination of scattering time and of valley occupation in transition-metal dichalcogenides doped by field effect. Physical Review B, 2016, 93, .	3.2	9
18	Strong band-filling-dependence of the scattering lifetime in gated MoS 2 nanolayers induced by the opening of intervalley scattering channels. Journal of Applied Physics, 2020, 128, 063907.	2.5	5

#	Article	IF	Citations
19	Artificial relativistic molecules. Nature Communications, 2020, 11, 815.	12.8	5
20	Electrical control of orbital and vibrational interlayer coupling in bi- and trilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi mathvariant="normal">H</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:r Physical Review Materials, 2022, 6, .	2.4	4
21	Vibrational heating in single-molecule switches: an energy-dependent density-of-states approach. Journal of Physics Condensed Matter, 2012, 24, 394003.	1.8	1
22	Vibrational Heating in Single-Molecule Switches. Advances in Atom and Single Molecule Machines, 2013, , 87-96.	0.0	0