

Thomas Brumme

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

5,442
citations

623734

14
h-index

713466

21
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all docs

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docs citations

22
times ranked

8379
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical control of orbital and vibrational interlayer coupling in bi- and trilayer $\text{H}\hat{\sim}\text{MoS}_2$. Physical Review Materials, 2022, 6, .	2.4	4
2	Phosphoric Acid Catalyzed Formation of Hydrogen-Bonded <i>o</i> -Quinone Methides. Enantioselective Cycloaddition with β -Dicarbonyl Compounds toward Benzannulated Oxygen Heterocycles. Journal of Organic Chemistry, 2020, 85, 11699-11720.	3.2	27
3	Stone- Wales Defects Cause High Proton Permeability and Isotope Selectivity of Single-Layer Graphene. Advanced Materials, 2020, 32, e2002442.	21.0	32
4	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
5	Twist-angle-dependent interlayer exciton diffusion in WS_2 - WSe_2 heterobilayers. Nature Materials, 2020, 19, 617-623.	27.5	193
6	Electron-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
7	Artificial relativistic molecules. Nature Communications, 2020, 11, 815.	12.8	5
8	Advanced capabilities for materials modelling with Quantum ESPRESSO. Journal of Physics Condensed Matter, 2017, 29, 465901.	1.8	4,303
9	Momentum-Resolved View of Electron-Phonon Coupling in Multilayer WSe_2 . Physical Review Letters, 2017, 119, 036803.	7.8	74
10	Determination of scattering time and of valley occupation in transition-metal dichalcogenides doped by field effect. Physical Review B, 2016, 93, .	3.2	9
11	Atomic and electronic structure of trilayer graphene/ $\text{SiC}(0001)$: Evidence of Strong Dependence on Stacking Sequence and charge transfer. Scientific Reports, 2016, 6, 33487.	3.3	16
12	Evidence for Flat Bands near the Fermi Level in Epitaxial Rhombohedral Multilayer Graphene. ACS Nano, 2015, 9, 5432-5439.	14.6	92
13	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
14	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
15	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
16	Vibrational Heating in Single-Molecule Switches. Advances in Atom and Single Molecule Machines, 2013, , 87-96.	0.0	0
17	Vibrational heating in single-molecule switches: an energy-dependent density-of-states approach. Journal of Physics Condensed Matter, 2012, 24, 394003.	1.8	1
18	Coverage-Driven Electronic Decoupling of Fe-Phthalocyanine from a $\text{Ag}(111)$ Substrate. Journal of Physical Chemistry C, 2011, 115, 12173-12179.	3.1	64

#	ARTICLE	IF	CITATIONS
19	Dynamical bistability of single-molecule junctions: A combined experimental and theoretical study of PTCDA on Ag(111). <i>Physical Review B</i> , 2011, 84, .	3.2	12
20	Direct Observation of the Tunneling Channels of a Chemisorbed Molecule. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1517-1523.	4.6	67
21	Anisotropic strain on phonons in a-plane GaN layers studied by Raman scattering. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 51-57.	2.2	16
22	Visualizing the Spin of Individual Cobalt-Phthalocyanine Molecules. <i>Physical Review Letters</i> , 2008, 101, 116602.	7.8	228