Xianqing Lin

List of Publications by Year
in descending order

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		566801	500791
29	821	15	28
papers	citations	h-index	g-index

29	29	29	1478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Much stronger binding of metal adatoms to silicene than to graphene: A first-principles study. Physical Review B, 2012, 86, .	1.1	208
2	Half-metallicity in graphene nanoribbons with topological line defects. Physical Review B, 2011, 84, .	1.1	108
3	Charge and magnetic states of Mn-, Fe-, and Co-doped monolayer MoS2. Journal of Applied Physics, 2014, 116, .	1.1	92
4	Adsorption capacity of H2O, NH3, CO, and NO2 on the pristine graphene. Journal of Applied Physics, 2013, 113, .	1.1	80
5	Minimum model for the electronic structure of twisted bilayer graphene and related structures. Physical Review B, 2018, 98, .	1.1	34
6	Shear instability in twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	31
7	Flat bands near Fermi level of topological line defects on graphite. Applied Physics Letters, 2012, 101, .	1.5	30
8	Microscopic Mechanism of the Helix-to-Layer Transformation in Elemental Group VI Solids. Nano Letters, 2018, 18, 4908-4913.	4.5	19
9	Layer-dependent intrinsic anomalous Hall effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 100, .	1.1	19
10	Pressure-induced gap modulation and topological transitions in twisted bilayer and twisted double bilayer graphene. Physical Review B, 2020, 101, .	1.1	19
11	The extraordinary magnetoelectric response in silicene doped with Fe and Cr atoms. Applied Physics Letters, 2014, 105, .	1.5	18
12	Effective lattice model of graphene moirÃ© superlattices on hexagonal boron nitride. Physical Review B, 2019, 100, .	1.1	17
13	Symmetry breaking in the double moirÃ© superlattices of relaxed twisted bilayer graphene on hexagonal boron nitride. Physical Review B, 2020, 102, .	1.1	17
14	Band Engineering of Large-Twist-Angle <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Graphene</mml:mtext><mml:mo>/</mml:mo><mml:mrow><mml:mi>h</mml:mi></mml:mrow></mml:mrow></mml:math> MoirÃ© Superlattices with Pressure. Physical Review Letters, 2020, 125, 226403.	2.9	17
15	Magnetostriction, Soft Magnetism, and Microwave Properties in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Co</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Fe</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi mathvariant="normal">C</mml:mi></mml:mrow></mml:mrow></mml:math> Alloy Films. Physical Review Applied, 2019, 12, .	1.5	16
16	Dirac points and van Hove singularities of silicene under uniaxial strain. Journal of Applied Physics, 2015, 117, 164305.	1.1	14
17	Topological phase transition due to strain-controlled evolution of the inverted bands in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:msup><mml:mi>T</mml:mi></mml:msup></mml:math> Physical Review B, 2017, 95, .	1.1	13
18	Electronic and magnetic properties of substitutionally Fe-, Co-, and Ni-doped BC3 honeycomb structure. Journal of Applied Physics, 2012, 111, .	1.1	12

#	Article	IF	Citations
19	Misalignment instability in magic-angle twisted bilayer graphene on hexagonal boron nitride. 2D Materials, 2021, 8, 025025.	2.0	11
20	Magnetism and electronic phase transitions in monoclinic transition metal dichalcogenides with transition metal atoms embedded. Journal of Applied Physics, 2016, 120, 064305.	1.1	10
21	MoirÃ© effects in graphene-hBN heterostructures. Physical Review Research, 2020, 2, .	1.3	9
22	Insulatorâ€“metal transition in 1Tâ€²-MoS2 under uniaxial strain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2883-2889.	0.9	7
23	Topologically insulating states in ternary transition metal dichalcogenides. Journal of Applied Physics, 2017, 121, 024303.	1.1	5
24	Tailoring of the structural, energetic and electronic properties of silicene-based nanostructures. Journal of Physics: Conference Series, 2014, 491, 012005.	0.3	4
25	Periodically Gated Bilayer Graphene as an Electronic Metamaterial. Physical Review Applied, 2020, 13, .	1.5	4
26	Emergence of intrinsically isolated flat bands and their topology in fully relaxed twisted multilayer graphene. Physical Review B, 2021, 104, .	1.1	4
27	High pressure induced secondary and tertiary gaps in relaxed graphene on hexagonal boron nitride. Physical Review B, 2022, 105, .	1.1	2
28	Switch effect of the nonquantized intrinsic spin Hall conductivity in monolayered monoclinic transition metal dichalcogenides. Journal of Physics Condensed Matter, 2017, 29, 295302.	0.7	1
29	Monte Carlo simulation study of the influence of defects on two-dimensional ferromagnetic order. AIP Advances, 2021, 11, 085016.	0.6	0