Lede Xian

List of Publications by Year
in descending order

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27 papers	3,150 citations	361413 20 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	4071 citing authors

#	Article	IF	Citations
1	MoirÃ© flat bands in twisted 2D hexagonal vdW materials. 2D Materials, 2022, 9, 014005.	4.4	10
2	MoirÃ© engineering of spinâ€“orbit coupling in twisted platinum diselenide. Electronic Structure, 2022, 4, 014004.	2.8	8
3	MoirÃ© nematic phase in twisted double bilayer graphene. Nature Physics, 2022, 18, 196-202.	16.7	51
4	Tunable multi-bands in twisted double bilayer graphene. 2D Materials, 2022, 9, 034001.	4.4	2
5	MoirÃ© metrology of energy landscapes in van der Waals heterostructures. Nature Communications, 2021, 12, 242.	12.8	60
6	Higher-Order Band Topology in Twisted MoirÃ© Superlattice. Physical Review Letters, 2021, 126, 066401.	7.8	56
7	MoirÃ© heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	16.7	317
8	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	10.3	73
9	Engineering Three-Dimensional MoirÃ© Flat Bands. Nano Letters, 2021, 21, 7519-7526.	9.1	10
10	MoirÃ©less correlations in ABCA graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	59
11	Realization of nearly dispersionless bands with strong orbital anisotropy from destructive interference in twisted bilayer MoS2. Nature Communications, 2021, 12, 5644.	12.8	57
12	Charge-Transfer Plasmon Polaritons at Graphene/Î±-RuCl₃ Interfaces. Nano Letters, 2020, 20, 8438-8445.	9.1	53
13	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	27.5	544
14	Universal slow plasmons and giant field enhancement in atomically thin quasi-two-dimensional metals. Nature Communications, 2020, 11, 1013.	12.8	53
15	One-dimensional flat bands in twisted bilayer germanium selenide. Nature Communications, 2020, 11, 1124.	12.8	80
16	Maximized electron interactions at the magic angle in twisted bilayer graphene. Nature, 2019, 572, 95-100.	27.8	644
17	Multiflat Bands and Strong Correlations in Twisted Bilayer Boron Nitride: Doping-Induced Correlated Insulator and Superconductor. Nano Letters, 2019, 19, 4934-4940.	9.1	123
18	Topological Floquet engineering of twisted bilayer graphene. Physical Review Research, 2019, 1, .	3.6	56

#	Article	IF	Citations
19	Ultrasensitive H2S gas sensors based on p-type WS2 hybrid materials. Nano Research, 2018, 11, 4215-4224.	10.4	76
20	Large area planar stanene epitaxially grown on Ag(1â€‰1â€‰1). 2D Materials, 2018, 5, 025002.	4.4	164
21	Ab initio Modelling of Plasmons in Metalâ€semiconductor Bilayer Transitionâ€metal Dichalcogenide Heterostructures. Israel Journal of Chemistry, 2017, 57, 540-546.	2.3	4
22	Square selenene and tellurene: novel group VI elemental 2D materials with nontrivial topological properties. 2D Materials, 2017, 4, 041003.	4.4	139
23	Stable two-dimensional dumbbell stanene: A quantum spin Hall insulator. Physical Review B, 2014, 90, .	3.2	154
24	Atomic structure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msqrt><mml:mn>3</mml:mn></mml:msqrt><mml:mspace width="0.16em" /><mml:mo>Ã—</mml:mo><mml:mspace width="0.16em" /><mml:msqrt><mml:mn>3</mml:mn></mml:msqrt></mml:mrow></mml:math>phase of silicene on Ag(111). Physical Review B, 2014, 90, .	3.2	107
25	Instantaneous Band Gap Collapse in Photoexcited Monoclinic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>VO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> to Photocarrier Doping. Physical Review Letters, 2014, 113, 216401.	7.8	203
26	Coupled Dirac Fermions and Neutrino-like Oscillations in Twisted Bilayer Graphene. Nano Letters, 2013, 13, 5159-5164.	9.1	18
27	Diffusion of Si and C atoms on and between graphene layers. Journal Physics D: Applied Physics, 2012, 45, 455309.	2.8	20