Teng Yang

List of Publications by Year
in descending order

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100 papers	3,564 citations	147801 31 h-index	138484 58 g-index
101 all docs	101 docs citations	101 times ranked	5861 citing authors

#	Article	IF	Citations
1	Electric-field control of magnetism in a few-layered van der Waals ferromagnetic semiconductor. Nature Nanotechnology, 2018, 13, 554-559.	31.5	466
2	Achieving High Thermoelectric Figure of Merit in Polycrystalline SnSe via Introducing Sn Vacancies. Journal of the American Chemical Society, 2018, 140, 499-505.	13.7	180
3	In-Plane Optical Anisotropy of Layered Gallium Telluride. ACS Nano, 2016, 10, 8964-8972.	14.6	179
4	Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe2. Nano Research, 2020, 13, 3358-3363.	10.4	175
5	Experimental and Theoretical Differential Cross Sections for a Four-Atom Reaction: HD + OH â†' H ₂ O + D. Science, 2011, 333, 440-442.	12.6	152
6	Optimal electromagnetic-wave absorption by enhanced dipole polarization in Ni/C nanocapsules. Applied Physics Letters, 2012, 101, 083116.	3.3	141
7	Control of Surface and Edge Oxidation on Phosphorene. ACS Applied Materials & Interfaces, 2017, 9, 9126-9135.	8.0	135
8	Direct Observation of Optically Induced Transient Structures in Graphite Using Ultrafast Electron Crystallography. Physical Review Letters, 2008, 101, 077401.	7.8	128
9	Strain-induced magnetism in MoS2 monolayer with defects. Journal of Applied Physics, 2014, 115, .	2.5	112
10	High pressure effect on structure, electronic structure, and thermoelectric properties of MoS2. Journal of Applied Physics, 2013, 113, .	2.5	101
11	Self-assembly of long chain alkanes and their derivatives on graphite. Journal of Chemical Physics, 2008, 128, 124709.	3.0	99
12	Double resonance Raman modes in monolayer and few-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, .	3.2	99
13	Skyrmion ground state and gyration of skyrmions in magnetic nanodisks without the Dzyaloshinsky-Moriya interaction. Physical Review B, 2013, 88, .	3.2	86
14	In situ oxidation of carbon-encapsulated cobalt nanocapsules creates highly active cobalt oxide catalysts for hydrocarbon combustion. Nature Communications, 2015, 6, 7181.	12.8	81
15	Gate tunable giant anisotropic resistance in ultra-thin GaTe. Nature Communications, 2019, 10, 2302.	12.8	72
16	Ab initio studies of the effect of nanoclusters on magnetostriction of Fe1â^'xGax alloys. Applied Physics Letters, 2010, 97, .	3.3	56
17	Temperature-dependent optical constants of monolayer $${ext {MoS}}_2$$, $${ext {MoSe}}_2$$, $${ext {WS}}_2$$, and $${ext {WSe}}_2$$: spectroscopic ellipsometry and first-principles calculations. Scientific Reports, 2020, 10, 15282.	3.3	52
18	Thermoelectric performance of monolayer InSe improved by convergence of multivalley bands. Journal of Applied Physics, 2019, 125, .	2.5	47

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19	Sensitive Phonon-Based Probe for Structure Identification of 1Tâ€² MoTe₂. Journal of the American Chemical Society, 2017, 139, 8396-8399.	13.7	46
20	Observation of chiral and slow plasmons in twisted bilayer graphene. Nature, 2022, 605, 63-68.	27.8	45
21	New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. Physical Review Materials, 2019, 3, .	2.4	44
22	Flower-like dynamics of coupled Skyrmions with dual resonant modes by a single-frequency microwave magnetic field. Scientific Reports, 2014, 4, 6153.	3.3	43
23	Rock-salt-type nanoprecipitates lead to high thermoelectric performance in undoped polycrystalline SnSe. RSC Advances, 2017, 7, 8258-8263.	3.6	40
24	Theoretical study of thermoelectric properties of MoS₂. Chinese Physics B, 2014, 23, 017201.	1.4	39
25	Enhanced thermoelectric performance of BiCuSeO by increasing Seebeck coefficient through magnetic ion incorporation. Journal of Materials Chemistry A, 2017, 5, 13392-13399.	10.3	39
26	Stacking stability of MoS ₂ bilayer: An ab initio study. Chinese Physics B, 2014, 23, 106801.	1.4	38
27	Interplay between Structure and Magnetism inMo12S9I9Nanowires. Physical Review Letters, 2006, 96, 125502.	7.8	37
28	Anomalous lattice vibrations of monolayer MoS₂ probed by ultraviolet Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 14561-14568.	2.8	36
29	Interpreting core-level spectra of oxidizing phosphorene: Theory and experiment. Physical Review B, 2015, 92, .	3.2	35
30	2D FeOCl: A Highly Inâ€Plane Anisotropic Antiferromagnetic Semiconductor Synthesized via Temperatureâ€Oscillation Chemical Vapor Transport. Advanced Materials, 2022, 34, e2108847.	21.0	34
31	Anisotropic thermopower and magnetothermopower in a misfit-layered calcium cobaltite. Applied Physics Letters, 2011, 98, .	3.3	33
32	Moltenâ€Saltâ€Assisted Chemical Vapor Deposition Process for Substitutional Doping of Monolayer MoS 2 and Effectively Altering the Electronic Structure and Phononic Properties. Advanced Science, 2020, 7, 2001080.	11.2	32
33	Unique Structural and Transport Properties of Molybdenum Chalcohalide Nanowires. Physical Review Letters, 2007, 99, 085503.	7.8	30
34	Crystallization kinetics of amorphous lead zirconate titanate thin films in a microwave magnetic field. Acta Materialia, 2014, 71, 1-10.	7.9	30
35	Two-Dimensional Room-Temperature Magnetic Nonstoichiometric Fe₇Se₈ Nanocrystals: Controllable Synthesis and Magnetic Behavior. Nano Letters, 2022, 22, 1242-1250.	9.1	28
36	Microwave absorption properties of Ni/(C, silicides) nanocapsules. Nanoscale Research Letters, 2012, 7, 238.	5.7	27

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37	Dimer rattling mode induced low thermal conductivity in an excellent acoustic conductor. Nature Communications, 2020, 11, 5197.	12.8	27
38	Molecular Self-Assembly of Functionalized Fullerenes on a Metal Surface. Physical Review Letters, 2009, 102, 056102.	7.8	26
39	Understanding Interlayer Coupling in TMD-hBN Heterostructure by Raman Spectroscopy. IEEE Transactions on Electron Devices, 2018, 65, 4059-4067.	3.0	26
40	Correlated states in doubly-aligned hBN/graphene/hBN heterostructures. Nature Communications, 2021, 12, 7196.	12.8	22
41	Drought degree constrains the beneficial effects of a fungal endophyte onAtractylodes lancea. Journal of Applied Microbiology, 2014, 117, 1435-1449.	3.1	20
42	Perspectives on exfoliated two-dimensional spintronics. Journal of Semiconductors, 2019, 40, 081508.	3.7	20
43	Angular dependent magnetoresistance with twofold and fourfold symmetries in A-type antiferromagnetic Nd0.45Sr0.55MnO3 thin film. Applied Physics Letters, 2010, 97, .	3.3	19
44	Spontaneous antiferromagnetic order and strain effect on electronic properties of Î±-graphyne. Carbon, 2018, 131, 223-228.	10.3	19
45	Enhancement of the spin entropy in NaxCo2O4 by Ni doping. Applied Physics Letters, 2010, 97, 032108.	3.3	18
46	ImprovedJcproperties and microstructure in Na-doped MTG-YBCO crystals. Superconductor Science and Technology, 2002, 15, 339-345.	3.5	17
47	Fundamental band gap and alignment of two-dimensional semiconductors explored by machine learning*. Chinese Physics B, 2020, 29, 046101.	1.4	17
48	Compositional ordering and quantum transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Mo</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mrow><mml:mn>9</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>nanowires:Ab initiocalculations. Physical Review B, 2008, 77, .	3.2	16
49	Confinement Effect in Thermoelectric Properties of Twoâ€“Dimensional Materials. MRS Advances, 2020, 5, 469-479.	0.9	16
50	The effect of Er-substitution on the superconducting properties of MTG-YBaCuO crystals. Superconductor Science and Technology, 2002, 15, 183-189.	3.5	15
51	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS2. Scientific Reports, 2018, 8, 11398.	3.3	15
52	Ultraviolet Raman spectroscopy of graphene and transition-metal dichalcogenides. Physica Status Solidi (B): Basic Research, 2015, 252, 2363-2374.	1.5	14
53	Enhanced doping effect on tuning structural phases of monolayer antimony. Applied Physics Letters, 2018, 112, 213104.	3.3	13
54	Scaling law for strain dependence of Raman spectra in transitionâ€metal dichalcogenides. Journal of Raman Spectroscopy, 2020, 51, 1353-1361.	2.5	13

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55	Transport properties in melt-textured-growth-YBa1.9Na0.1Cu3O7â˜Î´ crystals. Physica C: Superconductivity and Its Applications, 2002, 366, 195-202.	1.2	12
56	Effective activation energy and phase diagram in the Er-doping MTG-YBa2Cu3O7â˜Î´ crystal. Physica C: Superconductivity and Its Applications, 2003, 384, 130-136.	1.2	12
57	Large magnetocrystalline anisotropy of Fe _{3â˜x} Cr _x Se ₄ single crystals due to Cr substitution. Europhysics Letters, 2015, 109, 37004.	2.0	12
58	Quantum interference directed chiral raman scattering in two-dimensional enantiomers. Nature Communications, 2022, 13, 1254.	12.8	12
59	Microstructure, magnetization and dc transport properties of MTG-YBa1.8Na0.2Cu3Oycrystal. Superconductor Science and Technology, 2001, 14, 511-516.	3.5	11
60	Stability and electronic properties of two-dimensional indium iodide. Physical Review B, 2017, 95, .	3.2	10
61	AC losses of superconductor MgB2. Superconductor Science and Technology, 2002, 15, 370-374.	3.5	9
62	Electronic and magnetic properties of CrI₃ nanoribbons and nanotubes*. Chinese Physics B, 2019, 28, 077301.	1.4	8
63	The emerging ferroic orderings in two dimensions. Science China Information Sciences, 2019, 62, 1.	4.3	8
64	A novel two-dimensional rare-earth carbide synthesized by selective etching Al-C slab from nanolaminated YAl3C3. Scripta Materialia, 2020, 181, 10-14.	5.2	8
65	Magnetic and transport properties of the topological compound DySbTe. Physical Review B, 2022, 105, .	3.2	8
66	Dual-frequency microwave-driven resonant excitations of skyrmions in nanoscale magnets. RSC Advances, 2014, 4, 62179-62185.	3.6	7
67	Organicâ€“Inorganic Hybrid (Î²-Fe₃Se₄)₄[Fe(teta)_{1.5}] (teta = triethylenetetramine) Nanoplates: Solution Synthesis and Magnetic Properties. Chemistry of Materials, 2018, 30, 8975-8982.	6.7	7
68	Magic angles and flat Chern bands in alternating-twist multilayer graphene system. Journal of Materials Science and Technology, 2022, 111, 28-34.	10.7	7
69	Single orthorhombic b axis orientation and antiferromagnetic ordering type in multiferroic CaMnO3 thin film with La0.67Ca0.33MnO3 buffer layer. Applied Physics Letters, 2017, 111, .	3.3	6
70	Controlled magnetization reversal and magnetic spectra of artificial Sierpinski-fractal structure. Journal of Magnetism and Magnetic Materials, 2019, 483, 70-75.	2.3	6
71	Flattening is flattering: The revolutionizing 2D electronic systems*. Chinese Physics B, 2020, 29, 097307.	1.4	6
72	Tailoring electronic properties of two-dimensional antimonene with isoelectronic counterparts*. Chinese Physics B, 2020, 29, 037305.	1.4	6

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73	Giant barocaloric effects in formamidinium iodide. APL Materials, 2022, 10, .	5.1	6
74	New selection rule of resonant Raman scattering in MoS2 monolayer under circular polarization. Journal of Materials Science and Technology, 2022, 102, 132-136.	10.7	5
75	K-doping induced peak effect in melt-textured grown YBa2ÂxKxCu3Oycrystals. Superconductor Science and Technology, 2002, 15, 1766-1770.	3.5	4
76	Peak effect of a La0.9Pr0.1Ba2Cu2.62Al0.38O7â^'ysingle crystal. Superconductor Science and Technology, 2002, 15, 385-389.	3.5	4
77	Scalable and Versatile Transfer of Sensitive Two-dimensional Materials. Nano Letters, 2022, 22, 2342-2349.	9.1	4
78	Controlled growth of two-dimensional InAs single crystals via van der Waals epitaxy. Nano Research, 0, , .	10.4	4
79	First-principles calculations of double resonance Raman spectra for monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoTe</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2022, 105, .	3.2	4
80	EFFECT OF THE ANNEALING TEMPERATURE ON THE ELECTRONIC AND ATOMIC STRUCTURES OF EXCHANGE-BIASED NiFeâ€"FeMn BILAYERS. Surface Review and Letters, 2002, 09, 293-298.	1.1	3
81	In-plane and out-of-plane magnetoresistivity in a MTG Er-doped YBCO crystal. Superconductor Science and Technology, 2002, 15, 586-591.	3.5	3
82	Spin-entropy origin and scaling behavior of the thermopower of LaBaCoO. Ceramics International, 2016, 42, 6296-6300.	4.8	3
83	Resonant excitation of coupled skyrmions by spin-transfer torque. International Journal of Modern Physics B, 2016, 30, 1550254.	2.0	3
84	Structural and electronic properties of transition-metal chalcogenides Mo₅S₄ nanowires*. Chinese Physics B, 2019, 28, 106103.	1.4	3
85	Twist-Induced New Phonon Scattering Pathways in Bilayer Graphene Probed by Helicity-Resolved Raman Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 10487-10493.	3.1	3
86	Transport property of topological crystalline insulator SnTe (100) and ferrimagnetic insulator heterostructures. Journal of Materials Science and Technology, 2022, 131, 204-211.	10.7	3
87	Peak effect in the MTG-YBa2â^'xNaxCu3Oy single crystals. Physica C: Superconductivity and Its Applications, 2003, 386, 69-72.	1.2	2
88	Unconventional lattice dynamics in few-layer h-BN and indium iodide crystals*. Chinese Physics B, 2018, 27, 086301.	1.4	2
89	Study of History Effect of Vortex Matter by AC Susceptibility. Journal of Superconductivity and Novel Magnetism, 2001, 14, 501-507.	0.5	1
90	MICROSTRUCTURAL CHARACTERIZATION OF SPIN-VALVE MULTILAYERS BY X-RAY ANOMALOUS DIFFRACTION TECHNIQUE. Modern Physics Letters B, 2001, 15, 291-297.	1.9	1

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91	Elongation of skyrmions by Dzyaloshinskiiâ€“Moriya interaction in helimagnetic films. Rare Metals, 2022, 41, 3150-3159.	7.1	1
92	The significant drop in resistance around 200K in superconducting Hg-based compounds. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1905-1906.	1.2	0
93	Decoupling between the superconducting layers in (YBa2Cu3O7)24/(PrBa2Cu3O7)2 multilayer thin film. Physica C: Superconductivity and Its Applications, 2001, 364-365, 511-514.	1.2	0
94	Role of nanometer PrBCO layers in (YBa2Cu3O7-Î)24/(PrBa2Cu3O7-Î)2multilayer film. Journal of Physics Condensed Matter, 2001, 13, 6649-6657.	1.8	0
95	Transport properties in Tl-2212 film. Superconductor Science and Technology, 2002, 15, 375-380.	3.5	0
96	Field and temperature dependencies of the current-induced dissipation in an epitaxial YBCO thin films. Physica C: Superconductivity and Its Applications, 2003, 386, 370-373.	1.2	0
97	Interface effect on structural and electronic properties of graphdiyne adsorbed on SiO ₂ and h-BN substrates: A first-principles study. Chinese Physics B, 2015, 24, 096806.	1.4	0
98	Double Resonance Raman Spectroscopy of Two-Dimensional Materials. Springer Series in Materials Science, 2019, , 131-162.	0.6	0
99	Electrical and Magnetoelectrical Transport in FeTe₂ (100) Epitaxial Thin Films. ACS Applied Electronic Materials, 2022, 4, 3183-3189.	4.3	0
100	Accurate assignment of double resonant Raman bands in Janus MoSSe monolayer from first-principles calculations. Journal of Materials Science and Technology, 2022, 131, 82-90.	10.7	0