Teng Yang

List of Publications by Year
in descending order

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100 papers	3,564 citations	168829 31 h-index	156644 58 g-index
101 all docs	101 docs citations	101 times ranked	6719 citing authors

#	Article	IF	Citations
1	New selection rule of resonant Raman scattering in MoS2 monolayer under circular polarization. Journal of Materials Science and Technology, 2022, 102, 132-136.	5.6	5
2	Magic angles and flat Chern bands in alternating-twist multilayer graphene system. Journal of Materials Science and Technology, 2022, 111, 28-34.	5.6	7
3	Giant barocaloric effects in formamidinium iodide. APL Materials, 2022, 10, .	2.2	6
4	Two-Dimensional Room-Temperature Magnetic Nonstoichiometric Fe₇Se₈ Nanocrystals: Controllable Synthesis and Magnetic Behavior. Nano Letters, 2022, 22, 1242-1250.	4.5	28
5	2D FeOCl: A Highly Inâ€Plane Anisotropic Antiferromagnetic Semiconductor Synthesized via Temperatureâ€Oscillation Chemical Vapor Transport. Advanced Materials, 2022, 34, e2108847.	11.1	34
6	Scalable and Versatile Transfer of Sensitive Two-dimensional Materials. Nano Letters, 2022, 22, 2342-2349.	4.5	4
7	Electrical and Magnetoelectrical Transport in FeTe₂ (100) Epitaxial Thin Films. ACS Applied Electronic Materials, 2022, 4, 3183-3189.	2.0	0
8	Quantum interference directed chiral raman scattering in two-dimensional enantiomers. Nature Communications, 2022, 13, 1254.	5.8	12
9	Observation of chiral and slow plasmons in twisted bilayer graphene. Nature, 2022, 605, 63-68.	13.7	45
10	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</ Physical Review B, 2022, 105, .	1.1	4
11	Twist-Induced New Phonon Scattering Pathways in Bilayer Graphene Probed by Helicity-Resolved Raman Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 10487-10493.	1.5	3
12	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.	5.6	0
13	Transport property of topological crystalline insulator SnTe (100) and ferrimagnetic insulator heterostructures. Journal of Materials Science and Technology, 2022, 131, 204-211.	5.6	3
14	Magnetic and transport properties of the topological compound DySbTe. Physical Review B, 2022, 105, .	1.1	8
15	Elongation of skyrmions by Dzyaloshinskiiâ€“Moriya interaction in helimagnetic films. Rare Metals, 2022, 41, 3150-3159.	3.6	1
16	Correlated states in doubly-aligned hBN/graphene/hBN heterostructures. Nature Communications, 2021, 12, 7196.	5.8	22
17	Dimer rattling mode induced low thermal conductivity in an excellent acoustic conductor. Nature Communications, 2020, 11, 5197.	5.8	27
18	Flattening is flattering: The revolutionizing 2D electronic systems*. Chinese Physics B, 2020, 29, 097307.	0.7	6

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19	Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe2. Nano Research, 2020, 13, 3358-3363.	5.8	175
20	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.	1.6	52
21	Scaling law for strain dependence of Raman spectra in transitionâ€metal dichalcogenides. Journal of Raman Spectroscopy, 2020, 51, 1353-1361.	1.2	13
22	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.	5.6	32
23	Confinement Effect in Thermoelectric Properties of Twoâ€“Dimensional Materials. MRS Advances, 2020, 5, 469-479.	0.5	16
24	A novel two-dimensional rare-earth carbide synthesized by selective etching Al-C slab from nanolaminated YAl3C3. Scripta Materialia, 2020, 181, 10-14.	2.6	8
25	Fundamental band gap and alignment of two-dimensional semiconductors explored by machine learning*. Chinese Physics B, 2020, 29, 046101.	0.7	17
26	Tailoring electronic properties of two-dimensional antimonene with isoelectronic counterparts*. Chinese Physics B, 2020, 29, 037305.	0.7	6
27	Perspectives on exfoliated two-dimensional spintronics. Journal of Semiconductors, 2019, 40, 081508.	2.0	20
28	Electronic and magnetic properties of CrI₃ nanoribbons and nanotubes*. Chinese Physics B, 2019, 28, 077301.	0.7	8
29	Structural and electronic properties of transition-metal chalcogenides Mo₅S₄ nanowires*. Chinese Physics B, 2019, 28, 106103.	0.7	3
30	Gate tunable giant anisotropic resistance in ultra-thin GaTe. Nature Communications, 2019, 10, 2302.	5.8	72
31	Controlled magnetization reversal and magnetic spectra of artificial Sierpinski-fractal structure. Journal of Magnetism and Magnetic Materials, 2019, 483, 70-75.	1.0	6
32	The emerging ferroic orderings in two dimensions. Science China Information Sciences, 2019, 62, 1.	2.7	8
33	Double Resonance Raman Spectroscopy of Two-Dimensional Materials. Springer Series in Materials Science, 2019, , 131-162.	0.4	0
34	Thermoelectric performance of monolayer InSe improved by convergence of multivalley bands. Journal of Applied Physics, 2019, 125, .	1.1	47
35	New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. Physical Review Materials, 2019, 3, .	0.9	44
36	Spontaneous antiferromagnetic order and strain effect on electronic properties of Î±-graphyne. Carbon, 2018, 131, 223-228.	5.4	19

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37	Achieving High Thermoelectric Figure of Merit in Polycrystalline SnSe via Introducing Sn Vacancies. Journal of the American Chemical Society, 2018, 140, 499-505.	6.6	180
38	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.	3.2	7
39	Unconventional lattice dynamics in few-layer h-BN and indium iodide crystals*. Chinese Physics B, 2018, 27, 086301.	0.7	2
40	Enhanced doping effect on tuning structural phases of monolayer antimony. Applied Physics Letters, 2018, 112, 213104.	1.5	13
41	Electric-field control of magnetism in a few-layered van der Waals ferromagnetic semiconductor. Nature Nanotechnology, 2018, 13, 554-559.	15.6	466
42	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS2. Scientific Reports, 2018, 8, 11398.	1.6	15
43	Understanding Interlayer Coupling in TMD-hBN Heterostructure by Raman Spectroscopy. IEEE Transactions on Electron Devices, 2018, 65, 4059-4067.	1.6	26
44	Control of Surface and Edge Oxidation on Phosphorene. ACS Applied Materials & Interfaces, 2017, 9, 9126-9135.	4.0	135
45	Rock-salt-type nanoprecipitates lead to high thermoelectric performance in undoped polycrystalline SnSe. RSC Advances, 2017, 7, 8258-8263.	1.7	40
46	Sensitive Phonon-Based Probe for Structure Identification of 1Tâ€² MoTe₂. Journal of the American Chemical Society, 2017, 139, 8396-8399.	6.6	46
47	Enhanced thermoelectric performance of BiCuSeO by increasing Seebeck coefficient through magnetic ion incorporation. Journal of Materials Chemistry A, 2017, 5, 13392-13399.	5.2	39
48	Stability and electronic properties of two-dimensional indium iodide. Physical Review B, 2017, 95, .	1.1	10
49	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, .	1.5	6
50	In-Plane Optical Anisotropy of Layered Gallium Telluride. ACS Nano, 2016, 10, 8964-8972.	7.3	179
51	Spin-entropy origin and scaling behavior of the thermopower of LaBaCoO. Ceramics International, 2016, 42, 6296-6300.	2.3	3
52	Resonant excitation of coupled skyrmions by spin-transfer torque. International Journal of Modern Physics B, 2016, 30, 1550254.	1.0	3
53	Interpreting core-level spectra of oxidizing phosphorene: Theory and experiment. Physical Review B, 2015, 92, .	1.1	35
54	Ultraviolet Raman spectroscopy of graphene and transition-metal dichalcogenides. Physica Status Solidi (B): Basic Research, 2015, 252, 2363-2374.	0.7	14

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55	Large magnetocrystalline anisotropy of Fe _{3â^'x} Cr _x Se ₄ single crystals due to Cr substitution. Europhysics Letters, 2015, 109, 37004.	0.7	12
56	In situ oxidation of carbon-encapsulated cobalt nanocapsules creates highly active cobalt oxide catalysts for hydrocarbon combustion. Nature Communications, 2015, 6, 7181.	5.8	81
57	Anomalous lattice vibrations of monolayer MoS₂ probed by ultraviolet Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 14561-14568.	1.3	36
58	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, .	1.1	99
59	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.	0.7	0
60	Stacking stability of MoS ₂ bilayer: An ab initio study. Chinese Physics B, 2014, 23, 106801.	0.7	38
61	Dual-frequency microwave-driven resonant excitations of skyrmions in nanoscale magnets. RSC Advances, 2014, 4, 62179-62185.	1.7	7
62	Theoretical study of thermoelectric properties of MoS₂. Chinese Physics B, 2014, 23, 017201.	0.7	39
63	Drought degree constrains the beneficial effects of a fungal endophyte onAtractylodes lancea. Journal of Applied Microbiology, 2014, 117, 1435-1449.	1.4	20
64	Strain-induced magnetism in MoS2 monolayer with defects. Journal of Applied Physics, 2014, 115, .	1.1	112
65	Crystallization kinetics of amorphous lead zirconate titanate thin films in a microwave magnetic field. Acta Materialia, 2014, 71, 1-10.	3.8	30
66	Flower-like dynamics of coupled Skyrmions with dual resonant modes by a single-frequency microwave magnetic field. Scientific Reports, 2014, 4, 6153.	1.6	43
67	Skyrmion ground state and gyration of skyrmions in magnetic nanodisks without the Dzyaloshinsky-Moriya interaction. Physical Review B, 2013, 88, .	1.1	86
68	High pressure effect on structure, electronic structure, and thermoelectric properties of MoS2. Journal of Applied Physics, 2013, 113, .	1.1	101
69	Optimal electromagnetic-wave absorption by enhanced dipole polarization in Ni/C nanocapsules. Applied Physics Letters, 2012, 101, 083116.	1.5	141
70	Microwave absorption properties of Ni/(C, silicides) nanocapsules. Nanoscale Research Letters, 2012, 7, 238.	3.1	27
71	Experimental and Theoretical Differential Cross Sections for a Four-Atom Reaction: HD + OH â†' H ₂ O + D. Science, 2011, 333, 440-442.	6.0	152
72	Anisotropic thermopower and magnetothermopower in a misfit-layered calcium cobaltite. Applied Physics Letters, 2011, 98, .	1.5	33

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73	Ab initio studies of the effect of nanoclusters on magnetostriction of Fe1â^'xGax alloys. Applied Physics Letters, 2010, 97, .	1.5	56
74	Enhancement of the spin entropy in NaxCo2O4 by Ni doping. Applied Physics Letters, 2010, 97, 032108.	1.5	18
75	Angular dependent magnetoresistance with twofold and fourfold symmetries in A-type antiferromagnetic Nd0.45Sr0.55MnO3 thin film. Applied Physics Letters, 2010, 97, .	1.5	19
76	Molecular Self-Assembly of Functionalized Fullerenes on a Metal Surface. Physical Review Letters, 2009, 102, 056102.	2.9	26
77	Direct Observation of Optically Induced Transient Structures in Graphite Using Ultrafast Electron Crystallography. Physical Review Letters, 2008, 101, 077401.	2.9	128
78	Self-assembly of long chain alkanes and their derivatives on graphite. Journal of Chemical Physics, 2008, 128, 124709.	1.2	99
79	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, .	1.1	16
80	Unique Structural and Transport Properties of Molybdenum Chalcohalide Nanowires. Physical Review Letters, 2007, 99, 085503.	2.9	30
81	Interplay between Structure and Magnetism inMo12S9I9Nanowires. Physical Review Letters, 2006, 96, 125502.	2.9	37
82	Effective activation energy and phase diagram in the Er-doping MTG-YBa2Cu3O7â^'Î´ crystal. Physica C: Superconductivity and Its Applications, 2003, 384, 130-136.	0.6	12
83	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.	0.6	0
84	Peak effect in the MTG-YBa2â^'xNaxCu3Oy single crystals. Physica C: Superconductivity and Its Applications, 2003, 386, 69-72.	0.6	2
85	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.	0.5	3
86	In-plane and out-of-plane magnetoresistivity in a MTG Er-doped YBCO crystal. Superconductor Science and Technology, 2002, 15, 586-591.	1.8	3
87	K-doping induced peak effect in melt-textured grown YBa2ÂxKxCu3Oycrystals. Superconductor Science and Technology, 2002, 15, 1766-1770.	1.8	4
88	The effect of Er-substitution on the superconducting properties of MTG-YBaCuO crystals. Superconductor Science and Technology, 2002, 15, 183-189.	1.8	15
89	ImprovedJcproperties and microstructure in Na-doped MTG-YBCO crystals. Superconductor Science and Technology, 2002, 15, 339-345.	1.8	17
90	Peak effect of a La0.9Pr0.1Ba2Cu2.62Al0.38O7â^'ysingle crystal. Superconductor Science and Technology, 2002, 15, 385-389.	1.8	4

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91	Transport properties in Tl-2212 film. Superconductor Science and Technology, 2002, 15, 375-380.	1.8	0
92	AC losses of superconductor MgB2. Superconductor Science and Technology, 2002, 15, 370-374.	1.8	9
93	Transport properties in melt-textured-growth-YBa1.9Na0.1Cu3O7â^'Î´ crystals. Physica C: Superconductivity and Its Applications, 2002, 366, 195-202.	0.6	12
94	Decoupling between the superconducting layers in (YBa2Cu3O7)24/(PrBa2Cu3O7)2 multilayer thin film. Physica C: Superconductivity and Its Applications, 2001, 364-365, 511-514.	0.6	0
95	Study of History Effect of Vortex Matter by AC Susceptibility. Journal of Superconductivity and Novel Magnetism, 2001, 14, 501-507.	0.5	1
96	MICROSTRUCTURAL CHARACTERIZATION OF SPIN-VALVE MULTILAYERS BY X-RAY ANOMALOUS DIFFRACTION TECHNIQUE. Modern Physics Letters B, 2001, 15, 291-297.	1.0	1
97	Microstructure, magnetization and dc transport properties of MTG-YBa1.8Na0.2Cu3Oycrystal. Superconductor Science and Technology, 2001, 14, 511-516.	1.8	11
98	Role of nanometer PrBCO layers in (YBa2Cu3O7-Î´)24/(PrBa2Cu3O7-Î´)2multilayer film. Journal of Physics Condensed Matter, 2001, 13, 6649-6657.	0.7	0
99	The significant drop in resistance around 200K in superconducting Hg-based compounds. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1905-1906.	0.6	0
100	Controlled growth of two-dimensional InAs single crystals via van der Waals epitaxy. Nano Research, 0, , .	5.8	4