

Liang Cao

List of Publications by Year in descending order

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68
papers

2,219
citations

218677

26
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223800

46
g-index

70
all docs

70
docs citations

70
times ranked

4370
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetism in MoS ₂ induced by proton irradiation. Applied Physics Letters, 2012, 101, .	3.3	205
2	Controlling the direction of rectification in a molecular diode. Nature Communications, 2015, 6, 6324.	12.8	197
3	Anisotropic anomalous Hall effect in triangular itinerant ferromagnet Fe_3Sn_2 . Physical Review B, 2017, 96, .	3.3	108
4	Surface transfer doping of diamond by MoO ₃ : A combined spectroscopic and Hall measurement study. Applied Physics Letters, 2013, 103, 202112.	3.3	99
5	Quasi-Free-Standing Epitaxial Graphene on SiC (0001) by Fluorine Intercalation from a Molecular Source. ACS Nano, 2011, 5, 7662-7668.	14.6	96
6	Controlling Leakage Currents: The Role of the Binding Group and Purity of the Precursors for Self-Assembled Monolayers in the Performance of Molecular Diodes. Journal of the American Chemical Society, 2014, 136, 1982-1991.	13.7	83
7	Tunable inverted gap in monolayer quasi-metallic MoS ₂ induced by strong charge-lattice coupling. Nature Communications, 2017, 8, 486.	12.8	75
8	Enhanced surface transfer doping of diamond by V ₂ O ₅ with improved thermal stability. Applied Physics Letters, 2016, 108, .	3.3	74
9	One Carbon Matters: The Origin and Reversal of Odd-Even Effects in Molecular Diodes with Self-Assembled Monolayers of Ferrocenyl-Alkanethiolates. Journal of Physical Chemistry C, 2015, 119, 17910-17919.	3.1	66
10	Interface and Surface Cation Stoichiometry Modified by Oxygen Vacancies in Epitaxial Manganite Films. Advanced Functional Materials, 2012, 22, 4312-4321.	14.9	65
11	Work function and electron affinity of the fluorine-terminated (100) diamond surface. Applied Physics Letters, 2013, 102, .	3.3	64
12	Molecular orientation of terephthalic acid assembly on epitaxial graphene: NEXAFS and XPS study. Physical Chemistry Chemical Physics, 2012, 14, 10125.	2.8	63
13	Enormously improved CH ₃ NH ₃ PbI ₃ film surface for environmentally stable planar perovskite solar cells with PCE exceeding 19.9%. Nano Energy, 2018, 48, 10-19.	16.0	61
14	Nonideal Electrochemical Behavior of Ferrocenyl-Alkanethiolate SAMs Maps the Microenvironment of the Redox Unit. Journal of Physical Chemistry C, 2015, 119, 21978-21991.	3.1	58
15	Binary Pd/amorphous-SrRuO ₃ hybrid film for high stability and fast activity recovery ethanol oxidation electrocatalysis. Nano Energy, 2020, 67, 104247.	16.0	55
16	Surface-Limited Superconducting Phase Transition on 1T-TaS ₂ . ACS Nano, 2018, 12, 12619-12628.	14.6	54
17	Electronic Structure, Chemical Interactions and Molecular Orientations of 3,4,9,10-Perylene-tetracarboxylic-dianhydride on TiO ₂ (110). Journal of Physical Chemistry C, 2011, 115, 24880-24887.	3.1	50
18	Chemical control over the energy-level alignment in a two-terminal junction. Nature Communications, 2016, 7, 12066.	12.8	50

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19	Interfacial electronic structures revealed at the rubrene/CH ₃ NH ₃ PbI ₃ interface. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6546-6553.	2.8	50
20	Magnetic anisotropy and topological Hall effect in the trigonal chromium tellurides CrTe_3 . <i>Physical Review B</i> , 2019, 100, .	5.2	18
21	Bias induced transition from an ohmic to a non-ohmic interface in supramolecular tunneling junctions with Ga ₂ O ₃ /EGaIn top electrodes. <i>Nanoscale</i> , 2014, 6, 11246-11258.	5.6	41
22	Enhanced Crystalline Phase Purity of CH ₃ NH ₃ PbI ₃ Cl _x Film for High-Efficiency Hysteresis-Free Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23141-23151.	8.0	41
23	Effect of Gap States on the Orientation-Dependent Energy Level Alignment at the DIP/F ₁₆ CuPc Donor-Acceptor Heterojunction Interfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23922-23928.	3.1	40
24	Quantitative Femtosecond Charge Transfer Dynamics at Organic/Electrode Interfaces Studied by Core-Hole Clock Spectroscopy. <i>Advanced Materials</i> , 2014, 26, 7880-7888.	21.0	31
25	Supramolecular Structure of Self-Assembled Monolayers of Ferrocenyl Terminated <i>n</i> -Alkanethiolates on Gold Surfaces. <i>Langmuir</i> , 2014, 30, 13447-13455.	3.5	30
26	Molecular Orientation and Site Dependent Charge Transfer Dynamics at PTCDA/TiO ₂ (110) Interface Revealed by Resonant Photoemission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4160-4166.	3.1	28
27	Semimetal or Semiconductor: The Nature of High Intrinsic Electrical Conductivity in TiS ₂ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6996-7001.	4.6	27
28	Charge transfer dynamics of 3,4,9,10-perylene-tetracarboxylic-dianhydride molecules on Au(111) probed by resonant photoemission spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 135, 174701.	3.0	25
29	Preparation, optical and electrical properties of PTCDA nanostructures. <i>Nanoscale</i> , 2015, 7, 17116-17121.	5.6	23
30	Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. <i>Advanced Science</i> , 2019, 6, 1802093.	11.2	23
31	Unexpected Outstanding Room Temperature Spin Transport Verified in Organic-Inorganic Hybrid Perovskite Film. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4422-4428.	4.6	20
32	Correlation between electronic structure and magnetic properties of Fe-doped ZnO films. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	18
33	Origin of Magnetism in Hydrothermally Aged 2-Line Ferrihydrite Suspensions. <i>Environmental Science & Technology</i> , 2017, 51, 2643-2651.	10.0	16
34	A Photoelectron Spectroscopy Study on the Interfacial Chemistry and Electronic Structure of Terephthalic Acid Adsorption on TiO ₂ (110)-(1 Å ⁻¹) Surface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21351-21358.	3.1	15
35	Tuning the interfacial hole injection barrier between p-type organic materials and Co using a MoO ₃ buffer layer. <i>Journal of Applied Physics</i> , 2012, 112, 033704.	2.5	13
36	Electronic structures of bare and terephthalic acid adsorbed TiO ₂ (110)-(1 Å ⁻¹) reconstructed surfaces: origin and reactivity of the band gap states. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20144-20153.	2.8	13

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37	Weak Kondo effect in the monocrystalline transition metal dichalcogenide $ZrTe_2$. Physical Review B, 2021, 103, .		
38	Assistance of partially reduced MoO ₃ interlayer to hole-injection at iron phthalocyanine/ITO interface evidenced by photoemission study. Applied Surface Science, 2013, 271, 352-356.	6.1	12
39	Chemical interaction dictated energy level alignment at the N,N'-dipentyl-3,4,9,10-perylenedicarboximide/CH ₃ NH ₃ PbI ₃ interface. Applied Physics Letters, 2018, 113, .	3.3	11
40	Unraveling the Failure Modes of Molecular Diodes: The Importance of the Monolayer Formation Protocol and Anchoring Group to Minimize Leakage Currents. Journal of Physical Chemistry C, 2019, 123, 19759-19767.	3.1	11
41	Quantitative investigation in the influence of oxalic impurities on photoluminescence properties of porous AAOs. Materials Chemistry and Physics, 2011, 129, 1247-1251.	4.0	10
42	Quantitative study of spin relaxation in rubrene thin films by inverse spin Hall effect. Applied Physics Letters, 2019, 115, 053301.	3.3	10
43	The supramolecular structure and van der Waals interactions affect the electronic structure of ferrocenyl-alkanethiolate SAMs on gold and silver electrodes. Nanoscale Advances, 2019, 1, 1991-2002.	4.6	10
44	Enhanced Spin Transport of Conjugated Polymer in the Semiconductor/Insulating Polymer Blend. ACS Applied Materials & Interfaces, 2020, 12, 2708-2716.	8.0	10
45	Cross-correlation between WMAP and 2MASS: non-Gaussianity induced by the SZ effect. Monthly Notices of the Royal Astronomical Society, 2006, 369, 645-654.	4.4	9
46	Modification of PTCDA/Co Interfacial Electronic Structures Using Alq ₃ Buffer Layer. Journal of Physical Chemistry C, 2013, 117, 25636-25642.	3.1	9
47	Orbital dependent ultrafast charge transfer dynamics of ferrocenyl-functionalized SAMs on gold studied by core-hole clock spectroscopy. Journal of Physics Condensed Matter, 2016, 28, 094006.	1.8	9
48	Critical behavior and strongly anisotropic interactions in PrMn ₂ Ge ₂ . Applied Physics Letters, 2022, 120, 092402.	3.3	9
49	Photophysical and electrical properties of organic waveguide nanorods of perylene-3,4,9,10-tetracarboxylic dianhydride. Nano Research, 2016, 9, 1948-1955.	10.4	8
50	Structure and Optical Properties of ZnO Nanowire Arrays Grown by Plasma-assisted Molecular Beam Epitaxy. Wujia Cailiao Xuebao/Journal of Inorganic Materials, 2012, 27, 301-304.	1.3	7
51	Angular dependent NEXAFS study of the molecular orientation of PTCDA multilayers on Au (111) surface. Science Bulletin, 2011, 56, 3575-3577.	1.7	6
52	Defects controlled doping and electrical transport in TiS ₂ single crystals. Applied Physics Letters, 2020, 116, .	3.3	5
53	Kohler's rule and anisotropic Berry-phase effect in nodal-line semimetal ZrSiSe. Journal of Applied Physics, 2022, 131, .	2.5	5
54	Detection of Fe 3d electronic states in the valence band and magnetic properties of Fe-doped ZnO film. Chinese Physics B, 2013, 22, 026101.	1.4	4

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55	Magnetic and Transport Properties of Co _{1+x} Sb Single Crystals. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1841-1846.	1.8	4
56	Signatures of Fermi surface topology change in the nodal-line semimetal $ZrSiSe$. Physical Review B, 2021, 103, .	1.2	1
57	Magnetic correlations and transport properties in triangular-lattice nickel germanide Ni _{1.8} Ge single crystal. Journal of Magnetism and Magnetic Materials, 2018, 460, 104-110.	2.3	3
58	CONSTRAIN INTERGALACTIC MEDIUM FROM THE SZ EFFECT MAP. Modern Physics Letters A, 2006, 21, 2233-2239.	1.2	2
59	The electrical transport and magnetic properties of Fe _{1.08} Sb single crystal. Journal of Magnetism and Magnetic Materials, 2018, 465, 387-391.	2.3	2
60	Decisive Role of Elevated Mobility in X55 and X60 Hole Transport Layers for High-Performance Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 7681-7690.	5.1	2
61	Energy-Level Alignment and Orbital-Selective Femtosecond Charge Transfer Dynamics of Redox-Active Molecules on Au, Ag, and Pt Metal Surfaces. Journal of Physical Chemistry C, 2021, 125, 18474-18482.	3.1	2
62	Investigations on the Thermal Weight Loss and the Photoluminescence Mechanism of AAO Template. Wuli Cailiao Xuebao/Journal of Inorganic Materials, 2012, 27, 305-310.	1.3	2
63	Modulation of exciton transition in crystalline nanostructures of an organic semiconductor. Journal of Materials Science, 2018, 53, 1326-1334.	3.7	1
64	Disorder-driven non-Fermi liquid behavior in itinerant ferromagnet LiCo_5Ge_3 . Journal of Physics Condensed Matter, 2020, 32, 155802.	1.8	1
65	CHARACTERIZATION OF ELECTRONIC STRUCTURES AT ORGANIC-2D MATERIALS INTERFACES WITH ADVANCED SYNCHROTRON-BASED SOFT X-RAY SPECTROSCOPY. Surface Review and Letters, 2021, 28, 2140009.	1.1	1
66	The interfacial electronic structures at FePc/TiO ₂ (110) and FePc/C ₆₀ interface. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 186801.	0.5	1
67	2D Transition Metal Dichalcogenide: Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates (Adv. Sci. 7/2019). Advanced Science, 2019, 6, 1970042.	11.2	0
68	Characterization of Electronic Structures at Organic-2D Materials Interfaces with Advanced Synchrotron-based Soft X-ray Spectroscopy. , 2021, , 241-275.		0