

Shang-Peng Gao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9516124/publications.pdf>

Version: 2024-02-01

64
papers

3,741
citations

236925

25
h-index

123424

61
g-index

64
all docs

64
docs citations

64
times ranked

5322
citing authors

#	ARTICLE	IF	CITATIONS
1	Anionic Redox Regulated via Metal-Ligand Combinations in Layered Sulfides. <i>Advanced Materials</i> , 2022, 34, e2107353.	21.0	11
2	Electronic and catalytic properties of carbon nitride derivatives tuned by building blocks and linkages. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 8761-8775.	7.1	5
3	Exciton Emissions in Bilayer WSe_2 Tuned by the Ferroelectric Polymer. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1636-1643.	4.6	3
4	Ultrastable Zinc Anode by Simultaneously Manipulating Solvation Sheath and Inducing Oriented Deposition with PEG Stability Promoter. <i>Small</i> , 2022, 18, e2103345.	10.0	39
5	Anomalous Redox Features Induced by Strong Covalency in Layered $NaTi_2V_2S_5$ Cathodes for Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, , .	13.8	2
6	Depolarization of Few-Layer III-V and II-VI Materials through Symmetric Rumpling. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	0
7	Layer-dependent band gaps and dielectric constants of ultrathin fluorite crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109738.	4.0	8
8	Superior-Performance Aqueous Zinc-Ion Batteries Based on the <i>In Situ</i> Growth of MnO_2 Nanosheets on V_2CT_x MXene. <i>ACS Nano</i> , 2021, 15, 2971-2983.	14.6	205
9	A method to restore the intrinsic dielectric functions of 2D materials in periodic calculations. <i>Nanoscale</i> , 2021, 13, 17057-17067.	5.6	11
10	Zn^{2+} -Intercalated $V_2O_5 \cdot nH_2O$ derived from V_2CT_x MXene for hyper-stable zinc-ion storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17994-18005.	10.3	34
11	Electronic and optical properties of ultrathin cerium dioxide: A many-body GW-BSE investigation. <i>Computational Materials Science</i> , 2021, 198, 110696.	3.0	6
12	Density Functional Theory Study of $ZnIn_2S_4$ and $CdIn_2S_4$ Polymorphs Using Full-Potential Linearized Augmented Plane Wave Method and Modified Becke-Johnson Potential. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900485.	1.5	19
13	Tunable electronic properties and Schottky barrier in a graphene/ WSe_2 heterostructure under out-of-plane strain and an electric field. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23699-23706.	2.8	27
14	Synthesis of Honeycomb-Structured Beryllium Oxide via Graphene Liquid Cells. <i>Angewandte Chemie</i> , 2020, 132, 15864-15870.	2.0	0
15	Synthesis of Honeycomb-Structured Beryllium Oxide via Graphene Liquid Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15734-15740.	13.8	18
16	Etching-Doping Sedimentation Equilibrium Strategy: Accelerating Kinetics on Hollow Rh-Doped $CoFe_2O_4$ Layered Double Hydroxides for Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2003556.	14.9	117
17	A black Phosphorus/ $BiVO_4(010)$ heterostructure for promising photocatalytic performance: First-principles study. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 143, 109466.	4.0	18
18	Peculiar bond characters of fivefold coordinated octet compound crystals. <i>Chemical Science</i> , 2020, 11, 4340-4350.	7.4	7

#	ARTICLE	IF	CITATIONS
19	Stability, electronic structures, and band alignment of two-dimensional IV-N_2 materials. <i>Physical Review Materials</i> , 2019, 3, 031101.	2.4	8
20	Structures and characteristics of atomically thin ZrO_2 from monolayer to bilayer and two-dimensional ZrO_2 - MoS_2 heterojunction. <i>RSC Advances</i> , 2019, 9, 32984-32994.	3.6	25
21	First-principles study of structural, vibrational, and electronic properties of trigonally bonded II-IV-N_2 . <i>Computational Materials Science</i> , 2019, 158, 88-97.	3.0	6
22	Stability and electronic properties of GaN phases with inversion symmetry to inherently inhibit polarization. <i>Physical Review Materials</i> , 2019, 3, .	2.4	11
23	Large-scale controlled synthesis of porous two-dimensional nanosheets for the hydrogen evolution reaction through a chemical pathway. <i>Nanoscale</i> , 2018, 10, 6168-6176.	5.6	23
24	Phonon dispersions, band structures, and dielectric functions of BeO and BeS polymorphs. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 118, 242-247.	4.0	16
25	Hierarchical Macro- μ -Mesoporous Polymeric Carbon Nitride Microspheres with Narrow Bandgap for Enhanced Photocatalytic Hydrogen Production. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801241.	3.7	21
26	A honeycomb-like monolayer of HfO_2 and the calculation of static dielectric constant eliminating the effect of vacuum spacing. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26453-26462.	2.8	29
27	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS_2 . <i>Nano Letters</i> , 2018, 18, 3435-3440.	9.1	69
28	A general strategy for the functionalization of two-dimensional metal chalcogenides. <i>Nanoscale</i> , 2018, 10, 10657-10663.	5.6	9
29	Insight into the hydrogen evolution reaction of nickel dichalcogenide nanosheets: activities related to non-metal ligands. <i>Nanoscale</i> , 2017, 9, 5538-5544.	5.6	97
30	Bottom-up Approach Design, Band Structure, and Lithium Storage Properties of Atomically Thin FeOOH Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21334-21342.	8.0	49
31	Edge preference and band gap characters of MoS_2 and WS_2 nanoribbons. <i>Surface Science</i> , 2016, 653, 107-112.	1.9	51
32	Band Gap Characters and Ferromagnetic/Antiferromagnetic Coupling in Group-IV Monolayers Tuned by Chemical Species and Hydrogen Adsorption Configurations. <i>Nanoscale Research Letters</i> , 2015, 10, 1040.	5.7	46
33	Tuning the electronic structure of silicene and germanene by biaxial strain and electric field. <i>Physical Review B</i> , 2015, 91, .	3.2	137
34	Effect of configuration and biaxial strain to electronic structure of half-fluorinated graphene. <i>Surface Science</i> , 2015, 635, 78-84.	1.9	13
35	One-Step Self-Assembly Fabrication of High Quality $\text{Ni}_x\text{Mg}_{1-x}\text{O}$ Bowl-Shaped Array Film and Its Enhanced Photocurrent by Mg^{2+} Doping. <i>Advanced Functional Materials</i> , 2015, 25, 3256-3263.	14.9	13
36	Band gaps and dielectric functions of cubic and hexagonal diamond polytypes calculated by many-body perturbation theory. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 235-242.	1.5	11

#	ARTICLE	IF	CITATIONS
37	The Stability, Electronic Structure, and Optical Property of TiO ₂ Polymorphs. Journal of Physical Chemistry C, 2014, 118, 11385-11396.	3.1	223
38	Theoretical ELNES fingerprints of BC ₂ N polytypes. Computational Materials Science, 2013, 68, 335-341.	3.0	1
39	Band structures for Ge ₃ N ₄ polymorphs studied by DFT-LDA and GWA. Computational Materials Science, 2013, 67, 292-295.	3.0	14
40	Structure and electronic structure of S-doped graphitic C ₃ N ₄ investigated by density functional theory. Chinese Physics B, 2012, 21, 107101.	1.4	38
41	Crystal structures and band gap characters of h-BN polytypes predicted by the dispersion corrected DFT and GW method. Solid State Communications, 2012, 152, 1817-1820.	1.9	59
42	Band gap of C ₃ N ₄ in the GW approximation. International Journal of Hydrogen Energy, 2012, 37, 11072-11080.	7.1	208
43	Cubic, wurtzite, and 4H-BN band structures calculated using GW methods and maximally localized Wannier functions interpolation. Computational Materials Science, 2012, 61, 266-269.	3.0	29
44	GW calculations of the band gaps of BC ₂ N polytypes. European Physical Journal B, 2012, 85, 1.	1.5	5
45	ELNES for boron, carbon, and nitrogen K-edges with different chemical environments in layered materials studied by density functional theory. Ultramicroscopy, 2012, 112, 61-68.	1.9	15
46	Electron and vibrational spectroscopies using DFT, plane waves and pseudopotentials: CASTEP implementation. Computational and Theoretical Chemistry, 2010, 954, 22-35.	1.5	205
47	<i>Ab initio</i> calculation of ELNES/XANES of BeO polymorphs. Physica Status Solidi (B): Basic Research, 2010, 247, 2190-2194.	1.5	9
48	Electronic structure of oxide fuels from experiment and first principles calculations. Journal of Physics: Conference Series, 2010, 241, 012062.	0.4	5
49	Core-level spectroscopy calculation and the plane wave pseudopotential method. Journal of Physics Condensed Matter, 2009, 21, 104203.	1.8	78
50	First-principles calculation of spectral features, chemical shift and absolute threshold of ELNES and XANES using a plane wave pseudopotential method. Journal of Physics Condensed Matter, 2009, 21, 104204.	1.8	88
51	Development of electron energy-loss spectroscopy for nanoscience. Micron, 2008, 39, 658-665.	2.2	7
52	Theory of core-hole effects in $1s$ core-level spectroscopy of the first-row elements. Physical Review B, 2008, 77, .	3.2	102
53	Sub-Nanometer Au Monolayer-Protected Clusters Exhibiting Molecule-like Electronic Behavior: \hat{A} Quantitative High-Angle Annular Dark-Field Scanning Transmission Electron Microscopy and Electrochemical Characterization of Clusters with Precise Atomic Stoichiometry. Journal of Physical Chemistry B, 2006, 110, 12874-12883.	2.6	107
54	Metal Core Bonding Motifs of Monodisperse Icosahedral Au ₁₃ and Larger Au Monolayer-Protected Clusters As Revealed by X-ray Absorption Spectroscopy and Transmission Electron Microscopy. Journal of Physical Chemistry B, 2006, 110, 14564-14573.	2.6	81

#	ARTICLE	IF	CITATIONS
55	Theoretical electron energy-loss spectroscopy and its application in materials research. <i>Microscopy</i> (Oxford, England), 2005, 54, 293-298.	1.5	5
56	Identification of polymorphs of sp ³ bonded carbon and boron nitride using core-level absorption spectroscopy. <i>Chemical Physics Letters</i> , 2004, 400, 413-418.	2.6	21
57	Anisotropic spectroscopy of nitrogen K-edge in group-III nitrides. <i>Applied Physics Letters</i> , 2004, 84, 2784-2786.	3.3	22
58	Unoccupied electronic states in CaB ₆ studied by density functional theory and EELS measurements. <i>Physical Review B</i> , 2004, 69, .	3.2	19
59	Dendrite-Assisted Growth of Silicon Nanowires in Electroless Metal Deposition. <i>Advanced Functional Materials</i> , 2003, 13, 127-132.	14.9	356
60	A Simple Method To Synthesize Nanowires. <i>Chemistry of Materials</i> , 2002, 14, 3564-3568.	6.7	183
61	Synthesis of Large-Area Silicon Nanowire Arrays via Self-Assembling Nanoelectrochemistry. <i>Advanced Materials</i> , 2002, 14, 1164.	21.0	686
62	Isolating and identifying the ELNES signal of CN nanocrystals embedded in an amorphous matrix. <i>Chemical Physics Letters</i> , 2002, 352, 12-19.	2.6	10
63	Cluster model calculation of N near K-edge energy-loss fine structures in hexagonal GaN crystal. <i>Science in China Series A: Mathematics</i> , 2001, 44, 1602-1607.	0.5	1
64	Anomalous Redox Features Induced by Strong Covalency in Layered NaTi _{1-x} V ₂ S ₂ Cathodes for Na-ion Batteries. <i>Angewandte Chemie</i> , 0, , .	2.0	0