

Zengming Zhang

List of Publications by Year in descending order

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79
papers

1,111
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393982

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80
all docs

80
docs citations

80
times ranked

1512
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure Effects on the Thermal Decomposition of LLM-105 Crystal. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	1.3	4
2	Initial decomposition step and bimolecular hydrogen transfer of 3, 3,4-diamino-4, 4-azoxyfuran under high pressure and high temperature. <i>Combustion and Flame</i> , 2022, 240, 111981.	2.8	2
3	Multiple yet switchable hydrogen-bonded organic frameworks with white-light emission. <i>Nature Communications</i> , 2022, 13, 1882.	5.8	61
4	Critical behavior and phase diagram of layered ferromagnetic $\text{S}_{1-x}\text{FeTa}_x\text{S}_6$ single crystals. <i>Physical Review B</i> , 2022, 105, .	1.1	5
5	Inference of a "Hot Ice" Layer in Nitrogen-Rich Planets: Demixing the Phase Diagram and Phase Composition for Variable Concentration Helium-Nitrogen Mixtures Based on Isothermal Compression. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3745-3757.	1.1	0
6	RKKY-type in-plane ferromagnetism in layered Mn_2NbS_4 single crystals. <i>Physical Review B</i> , 2022, 105, .		
7	Defect Origin of Emission in CsCu_2I_3 and Pressure-Induced Anomalous Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 317-323.	2.1	15
8	Itinerant magnetism in the half-metallic Heusler compound Co_2HfSn : Evidence from critical behavior combined with first-principles calculations. <i>Physical Review B</i> , 2021, 103, .	1.1	11
9	Enhanced PEC Water Splitting Performance of Silver Nanoparticle-Coated CdS Nanowire Photoanodes: The Role of Silver Deposition. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7542-7551.	1.5	10
10	Pressure-Induced Phase Transition of $\hat{1}^2$ -RDX Single Crystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6418-6426.	1.5	9
11	Colossal Anomalous Hall Effect in Ferromagnetic van der Waals CrTe_2 . <i>ACS Nano</i> , 2021, 15, 9759-9763.	7.3	30
12	Pressure-Induced Anomalous Emission Behaviors of MnS/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9281-9286.	1.5	3
13	Pressure-Induced In Situ Construction of P-CO/HNIW Explosive Composites with Excellent Laser Initiation and Detonation Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20718-20727.	4.0	4
14	Significant perpendicular magnetic anisotropy in room-temperature layered ferromagnet of Cr-intercalated CrTe_2 . <i>2D Materials</i> , 2021, 8, 031003.	2.0	27
15	Experimental Observation of New Phase, Determination of Loading-Path of Amorphous State and Loading-Path Dependent Phase Transitions for Pyridine around Freezing Pressure via Raman Modes in Low Wavenumber. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11159-11165.	1.5	3
16	Possible Topological Hall Effect above Room Temperature in Layered $\text{Cr}_{1.2}\text{Te}_2$ Ferromagnet. <i>Nano Letters</i> , 2021, 21, 4280-4286.	4.5	35
17	Temperature Evolution of Optical Behaviors of $\hat{1}^2$ -HMX Single Crystals from Spectroscopy Ellipsometry. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12390-12397.	1.5	3
18	Correlation between Photoluminescence Properties of Surface Defects and Laser-Induced Damage Threshold of Fused Silica. <i>Laser and Particle Beams</i> , 2021, 2021, .	0.4	3

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19	Time-Resolved Photoluminescence Study of MnS/ZnS Core/Shell Quantum Dots at High Pressure and Low Temperature. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22354-22359.	1.5	1
20	Analysis of residual stress fields from fictive temperature distributions within heat-affected zones of fused silica. <i>Optics Express</i> , 2021, 29, 42511.	1.7	6
21	Fast-Response Metal-Semiconductor-Metal Junction Ultraviolet Photodetector Based on ZnS:Mn Nanorod Networks via a Cost-Effective Method. <i>ACS Omega</i> , 2021, 6, 32930-32937.	1.6	13
22	Electronic Structure of LLM-105 Crystal under High Pressure and Low Temperature. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2399-2405.	1.5	10
23	Thermally stable Na _{3.6} Y _{1.8} (PO ₄) ₃ :Eu ³⁺ phosphor, luminescent properties and application in WLEDs. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153513.	2.8	20
24	Anomalous Octahedron Distortion of Bi-Alloyed Cs ₂ AgInCl ₆ Crystal via XRD, Raman, Huang-Rhys Factor, and Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9572-9578.	2.1	60
25	Multiple magnetic phase transitions, electrical and optical properties of FeTe ₂ single crystals. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 035808.	0.7	11
26	Prediction of MnSiTe_3 as an intrinsic layered half-metal. <i>Physical Review B</i> , 2020, 101, .		
27	Temperature dependent optical properties of LaCoO ₃ /SrTiO ₃ thin film studied by spectroscopic ellipsometry. <i>AIP Advances</i> , 2020, 10, 035117.	0.6	2
28	Magneto-transport and Shubnikov-de Haas oscillations in the layered ternary telluride topological semimetal candidate Ta ₃ SiTe ₆ . <i>Applied Physics Letters</i> , 2020, 116, .	1.5	15
29	Phase Transition Routes for $\hat{\mu}$ - and $\hat{\beta}$ -CL-20 Crystals under High Pressures of up to 60 GPa. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5061-5068.	1.5	9
30	Observation of superconductivity accompanying the pressure-induced structural phase transition in LaSb. <i>Physical Review B</i> , 2020, 101, .	1.1	9
31	Constructing a Spectral Down Converter to Enhance Cu(In,Ga)Se ₂ Solar Cell Performance Using Yttrium Aluminum Garnet:Ce ³⁺ Ceramics. <i>Solar Rrl</i> , 2020, 4, 1900518.	3.1	3
32	Quasi-Static Two-Dimensional Infrared Spectra of the Carboxyhemoglobin Subsystem under Electric Fields: A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9570-9578.	1.2	3
33	High-temperature Raman and FTIR study of aragonite-group carbonates. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 51-62.	0.3	24
34	Pressure-induced modification of the anomalous Hall effect in layered Fe_3Te_2 . <i>Physical Review B</i> , 2019, 100, .		
35	In-situ high-temperature vibrational spectra for synthetic and natural clinohumite: Implications for dense hydrous magnesium silicates in subduction zones. <i>American Mineralogist</i> , 2019, 104, 53-63.	0.9	14
36	Pressure-Dependent Luminescence and Absorption in 3,4-Diamino-4-azoxyfuran: Secondary Bonding Interaction in Molecular Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8731-8739.	1.5	7

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37	Critical behavior in the half-metallic Heusler alloy CoTiSn . Physical Review B, 2019, 100, .	1.1	18
38	Phase Confirmation and Equation of State of $\hat{\Gamma}^2$ -HMX under 40 GPa. Journal of Physical Chemistry C, 2019, 123, 30121-30128.	1.5	10
39	Pressure- and Temperature-Dependent Structural Stability of LLM-105 Crystal. Journal of Physical Chemistry C, 2019, 123, 1110-1119.	1.5	30
40	In Situ Monitoring of Thermal Degradation of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Films by Spectroscopic Ellipsometry. Journal of Physical Chemistry C, 2019, 123, 1362-1369.	1.5	13
41	$\text{Tm}^{3+}/\text{Dy}^{3+}/\text{Eu}^{3+}$ (Sm^{3+}) tri-activated Y_2WO_6 as one potential single-phase phosphor for WLEDs. Journal of Alloys and Compounds, 2019, 778, 942-950.	2.8	35
42	Wide-range ratiometric upconversion luminescence thermometry based on non-thermally coupled levels of Er in high-temperature cubic phase NaYF_4 : Yb, Er. Optics Letters, 2019, 44, 4678.	1.7	6
43	Temperature dependent optical properties of SnO_2 film study by ellipsometry. Optical Materials Express, 2019, 9, 3691.	1.6	18
44	Pressure-induced topological phase transitions and structural transition in 1T-TiTe ₂ single crystal. Applied Physics Letters, 2018, 112, .	1.5	26
45	Effect of pressure gradient and new phases for 1,3,5-trinitrohexahydro- <i>s</i> -triazine (RDX) under high pressures. Physical Chemistry Chemical Physics, 2018, 20, 14374-14383.	1.3	21
46	Exact interband transition energies of VO ₂ films. Thin Solid Films, 2018, 645, 160-165.	0.8	6
47	Strain-induced conductivity accelerated recoveries in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructure with millimeter scale. RSC Advances, 2018, 8, 37804-37810.	1.7	0
48	High-Pressure Phase Transition of Micro- and Nanoscale HoVO_4 and High-Pressure Phase Diagram of REVO_4 with RE Ionic Radius. ACS Omega, 2018, 3, 18227-18233.	1.6	7
49	Na^+ -Driven Nucleation of NaYF_4 :Yb,Er Nanocrystals and Effect of Temperature on Their Structural Transformations and Luminescent Properties. Journal of Physical Chemistry C, 2018, 122, 23242-23250.	1.5	16
50	Revealing the role of oxygen vacancies on the phase transition of VO ₂ film from the optical-constant measurements. RSC Advances, 2018, 8, 19151-19156.	1.7	23
51	Pressure-Induced Conformer Modifications and Electronic Structural Changes in 1,3,5-Triamino-2,4,6-trinitrobenzene (TATB) up to 20 GPa. Journal of Physical Chemistry C, 2018, 122, 15861-15867.	1.5	16
52	Laser effects on phase transition for cubic Sb_2O_3 microcrystals under high pressure. Journal of Materials Chemistry C, 2017, 5, 5451-5457.	2.7	26
53	Pressure and Temperature Study on the Structural Stability of GdNbO_4 : Eu^{3+} . Journal of Physical Chemistry C, 2017, 121, 14787-14794.	1.5	25
54	Heat-Induced Solid-Solid Phase Transformation of TKX-50. Journal of Physical Chemistry C, 2017, 121, 8262-8271.	1.5	42

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55	Facile fabrication of infrared photodetector using metastable vanadium dioxide VO ₂ (B) nanorod networks. Applied Physics Letters, 2017, 111, .	1.5	21
56	Nature-Mimic ZnO Nanoflowers Architecture: Chalcogenide Quantum Dots Coupling with ZnO/ZnTiO ₃ Nanoheterostructures for Efficient Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2017, 121, 21096-21104.	1.5	32
57	Growth and Characterization of β -RDX Single-Crystal Particles. Journal of Physical Chemistry C, 2017, 121, 17586-17594.	1.5	18
58	Does increasing pressure always accelerate the condensed material decay initiated through bimolecular reactions? A case of the thermal decomposition of TKX-50 at high pressures. Physical Chemistry Chemical Physics, 2017, 19, 23309-23317.	1.3	12
59	Cyclic Phase Transition from Hexagonal to Orthorhombic Then Back to Hexagonal of EuF ₃ While Loading Uniaxial Pressure and under High Temperature. Journal of Physical Chemistry C, 2016, 120, 18780-18787.	1.5	11
60	Irreversible temperature quenching and anti-quenching of photoluminescence of ZnS/CdS:Mn/ZnS quantum well quantum dots. Chemical Physics Letters, 2015, 625, 147-150.	1.2	6
61	Structure transformation and remarkable site-distribution modulation of Eu ³⁺ ions in CaMoO ₄ · α -Eu ³⁺ nanocrystals under high pressure. CrystEngComm, 2015, 17, 7905-7914.	1.3	12
62	Characterizations, structure and optical properties of ZnWO ₄ :Eu nanorods under high temperature. Surface and Interface Analysis, 2014, 46, 1151-1155.	0.8	8
63	Pressure-induced irreversible phase transitions of the monoclinic GdOOH nanorods at ambient temperature. Chemical Physics Letters, 2014, 612, 138-142.	1.2	2
64	White light emission of Eu ³⁺ /Ag co-doped Y ₂ Si ₂ O ₇ . Journal of Rare Earths, 2014, 32, 779-786.	2.5	12
65	Upconversion luminescence of NaYF ₄ :Yb,Er nanocrystals with high uniformity. Journal of Rare Earths, 2014, 32, 802-805.	2.5	26
66	Raman and luminescence studies on phase transition of EuNbO ₄ under high pressure. Journal of Rare Earths, 2014, 32, 787-791.	2.5	27
67	Pressure and temperature dependent up-conversion properties of Yb ³⁺ -Er ³⁺ co-doped BaBi ₄ Ti ₄ O ₁₅ ferroelectric ceramics. Journal of Rare Earths, 2014, 32, 879-883.	2.5	13
68	Selective functionalization of silicon surface controlled by metastable helium atom beam for patterning chemisorbed monolayer molecular assemblies. Surface and Interface Analysis, 2014, 46, 1196-1199.	0.8	1
69	Method for a quick estimation of energy dependent reflection electron energy loss spectroscopy spectra for Al and Si. Physica B: Condensed Matter, 2013, 423, 64-68.	1.3	4
70	Pressure-Induced Reverse Reaction of the Photochemical Decomposition of Germanium Tetraiodide Molecular Crystal. Journal of Physical Chemistry C, 2013, 117, 25012-25018.	1.5	1
71	Raman studies of selenium nanowires under high pressure. Materials Research Bulletin, 2011, 46, 350-354.	2.7	8
72	Raman studies of hexagonal MoO ₃ at high pressure. Physica Status Solidi (B): Basic Research, 2011, 248, 1119-1122.	0.7	24

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73	Effective energy loss functions of Mo and Ta derived from reflection electron energy loss spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 159, 62-65.	0.8	7
74	Study of X-ray absorption near-edge structure with a photoemission electron microscope. <i>Surface and Interface Analysis</i> , 2006, 38, 574-578.	0.8	1
75	Angular distribution of X-ray photoelectrons emitted from silver. <i>Surface Science</i> , 2005, 592, 18-24.	0.8	6
76	Comparison of Energy-Loss Functions from Reflection Electron Energy-Loss Spectroscopy Spectra with Surface and Bulk Energy-Loss Functions: in Case of Cu. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 7137-7143.	0.8	8
77	Effective depths for surface excitation derived by reflection electron energy-loss spectroscopy analysis. <i>Surface and Interface Analysis</i> , 2004, 36, 334-338.	0.8	4
78	Monte-Carlo simulation of secondary electron emission by x-ray irradiation?an application of x-ray absorption near-edge structure (XANES). <i>Surface and Interface Analysis</i> , 2004, 36, 1413-1416.	0.8	8
79	Monte-Carlo simulation of x-ray photoelectron emission from silver. <i>Surface and Interface Analysis</i> , 2003, 35, 818-823.	0.8	8