

Min-Cherl Jung

List of Publications by Year in descending order

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papers

1,675
citations

304368

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288905

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68
all docs

68
docs citations

68
times ranked

3012
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Air Annealing on High Efficiency Planar Structure Perovskite Solar Cells. Chemistry of Materials, 2015, 27, 1597-1603.	3.2	247
2	Color variation of ZnGa2O4 phosphor by reduction-oxidation processes. Applied Physics Letters, 2003, 82, 2029-2031.	1.5	151
3	Properties and solar cell applications of Pb-free perovskite films formed by vapor deposition. RSC Advances, 2016, 6, 2819-2825.	1.7	131
4	Substantial improvement of perovskite solar cells stability by pinhole-free hole transport layer with doping engineering. Scientific Reports, 2015, 5, 9863.	1.6	119
5	Ge nitride formation in N-doped amorphous Ge2Sb2Te5. Applied Physics Letters, 2007, 91, .	1.5	76
6	Self-Assembled Nanowires with Giant Rashba Split Bands. Physical Review Letters, 2013, 110, 036801.	2.9	68
7	Observation of molecular nitrogen in N-doped Ge2Sb2Te5. Applied Physics Letters, 2006, 89, 243520.	1.5	60
8	The presence of CH3NH2 neutral species in organometal halide perovskite films. Applied Physics Letters, 2016, 108, .	1.5	50
9	Hybrid Heterocycle-Containing Electron-Transport Materials Synthesized by Regioselective Suzuki Cross-Coupling Reactions for Highly Efficient Phosphorescent OLEDs with Unprecedented Low Operating Voltage. Chemistry of Materials, 2012, 24, 3817-3827.	3.2	45
10	Surface Instability of Sn-Based Hybrid Perovskite Thin Film, CH ₃ NH ₃ SnI ₃ : The Origin of Its Material Instability. Journal of Physical Chemistry Letters, 2018, 9, 2293-2297.	2.1	45
11	X-Ray Photoelectron Spectroscopy Study of Pt-Oxide Thin Films Deposited by Reactive Sputtering Using O2/Ar Gas Mixtures. Japanese Journal of Applied Physics, 1999, 38, 4872-4875.	0.8	43
12	Flat-Lying Semiconductor/Insulator Interfacial Layer in DNTT Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 1833-1840.	4.0	43
13	Scanning Photoemission Microscopy of Graphene Sheets on SiO ₂ . Advanced Materials, 2008, 20, 3589-3591.	11.1	42
14	High-resolution x-ray photoelectron spectroscopy on oxygen-free amorphous Ge2Sb2Te5. Applied Physics Letters, 2006, 89, 043503.	1.5	38
15	Football fever: goal distributions and non-Gaussian statistics. European Physical Journal B, 2009, 67, 459-471.	0.6	35
16	Comprehensive Understanding and Controlling the Defect Structures: An Effective Approach for Organic-Inorganic Hybrid Perovskite-Based Solar-Cell Application. Frontiers in Energy Research, 2018, 6,	1.2	35
17	valence and spin states in delafossite AgNiO_2 and the frustrated Jahn-Teller system AgNi_2O_2	1.1	31
18	Dopant interdiffusion effects in n-i-p structured spiro-OMeTAD hole transport layer of organometal halide perovskite solar cells. Organic Electronics, 2016, 31, 71-76.	1.4	29

#	ARTICLE	IF	CITATIONS
19	Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2664-2676.	2.7	26
20	Significant THz absorption in CH ₃ NH ₂ molecular defect-incorporated organic-inorganic hybrid perovskite thin film. <i>Scientific Reports</i> , 2019, 9, 5811.	1.6	26
21	Electrical and optical properties of transparent flexible electrodes: Effects of UV ozone and oxygen plasma treatments. <i>Organic Electronics</i> , 2014, 15, 721-728.	1.4	23
22	Effect of indium on phase-change characteristics and local chemical states of In _{1-x} Ge _x Sb _{1-x} Te alloys. <i>Applied Physics Letters</i> , 2008, 93, 021905.	1.5	22
23	Unique phonon modes of a CH ₃ NH ₃ PbBr ₃ hybrid perovskite film without the influence of defect structures: an attempt toward a novel THz-based application. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	20
24	Degradation mechanism of organic light-emitting device investigated by scanning photoelectron microscopy coupled with peel-off technique. <i>Applied Physics Letters</i> , 2006, 89, 063503.	1.5	18
25	Significant THz-wave absorption property in mixed δ - and δ' -FAPbI ₃ hybrid perovskite flexible thin film formed by sequential vacuum evaporation. <i>Applied Physics Express</i> , 2019, 12, 051003.	1.1	17
26	Halide Perovskite Single Crystals: Optoelectronic Applications and Strategical Approaches. <i>Energies</i> , 2020, 13, 4250.	1.6	17
27	Surface property change of graphene using nitrogen ion. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 045005.	0.7	16
28	Formation of CH ₃ NH ₂ -incorporated intermediate state in CH ₃ NH ₃ PbI ₃ hybrid perovskite thin film formed by sequential vacuum evaporation. <i>Applied Physics Express</i> , 2019, 12, 015501.	1.1	13
29	Chemical state and atomic structure of Ge ₂ Sb ₂ Te ₅ system for nonvolatile phase-change random access memory. <i>Journal of Applied Physics</i> , 2008, 104, 074911.	1.1	12
30	Surface Degradation Mechanism on CH ₃ NH ₃ PbBr ₃ Hybrid Perovskite Single Crystal by a Grazing E-Beam Irradiation. <i>Nanomaterials</i> , 2020, 10, 1253.	1.9	12
31	Diffusion and influence on photovoltaic characteristics of p-type dopants in organic photovoltaics for energy harvesting from blue-light. <i>Organic Electronics</i> , 2018, 52, 17-21.	1.4	10
32	Unusual terahertz-wave absorptions in δ -mixed-phase FAPbI ₃ single crystals: interfacial phonon vibration modes. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	10
33	Nitrogen contribution to N-doped GeTe (N: 8.4At.%) in the structural phase transition. <i>Current Applied Physics</i> , 2011, 11, 710-713.	1.1	9
34	Strong Linear Correlation between CH ₃ NH ₂ Molecular Defect and THz-Wave Absorption in CH ₃ NH ₃ PbI ₃ Hybrid Perovskite Thin Film. <i>Nanomaterials</i> , 2020, 10, 721.	1.9	9
35	Self-Assembled Perovskite Nanoislands on CH ₃ NH ₃ PbI ₃ Cuboid Single Crystals by Energetic Surface Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2105542.	7.8	9
36	Valence states of transition-metal ions in cubic perovskites SrMn _{1-x} FexO ₃ . <i>Journal of Applied Physics</i> , 2007, 101, 09G523.	1.1	8

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37	Investigation of electronic structure of amorphous, metastable, and stable phases of Ge ₁ Sb ₂ Te ₄ film by high-resolution x-ray photoemission spectroscopy. Applied Physics Letters, 2008, 92, 211913.	1.5	8
38	Effects of carbon doping on chemical states of amorphous Ge ₂ Sb ₂ Te ₅ , measured with synchrotron radiation. Current Applied Physics, 2014, 14, 1421-1423.	1.1	8
39	Chemical states of GeTe thin-film during structural phase-change by annealing in ultra-high vacuum. European Physical Journal B, 2008, 66, 171-174.	0.6	7
40	Enhancement of Short-Range Ordering of Low-Bandgap Donor-Acceptor Conjugated Polymer in Polymer/Polymer Blend Films. Macromolecules, 2020, 53, 6630-6639.	2.2	7
41	Nanostructured silicon formations as a result of ionized N ₂ gas reactions on silicon with native oxide layers. Applied Physics Letters, 2003, 82, 3653-3655.	1.5	6
42	Observation of chemical separation of In ₃ Sb ₁ Te ₂ thin film during phase transition. Applied Surface Science, 2014, 292, 986-989.	3.1	6
43	Thermal decomposition of ethylene on Si(111): Formation of the Si(111):carbon structure. Surface Science, 2007, 601, 694-698.	0.8	5
44	Reliability improvement of bulk-heterojunction organic solar cell by using reduced graphene oxide as hole-transport layer. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1873-1876.	0.8	5
45	Spectromicroscopic investigation of lateral-type Ge ₂ Sb ₂ Te ₅ device failure. Semiconductor Science and Technology, 2009, 24, 105025.	1.0	4
46	Synchrotron-Based X-ray Spectroscopic Investigation of Nitrogen-Doped Ge-Bi (8.4 at. %)Te Thin Films during the Amorphous-to-Crystalline Structural Phase Transition. Japanese Journal of Applied Physics, 2010, 49, 072601.	0.8	4
47	Characterization of Fe-doped In-Sb-Te (Fe: 10 at.%) material with individual electrical-phase-change and magnetic properties. AIP Advances, 2011, 1, 022150.	0.6	4
48	The trapping of N ₂ molecules and the reduction in its bonding length in Ge(001) due to N ₂ ⁺ ion implantation. Journal of Applied Physics, 2011, 109, .	1.1	4
49	Chemical states and photoluminescence of Si _{0.3} Ge _{0.7} -nitride film formed by N ₂ ⁺ gas. Applied Physics Letters, 2011, 99, 123103.	1.5	4
50	Chemical bonding structures of silicon oxynitride films grown by ionised N ₂ and pure O ₂ gas mixtures at low temperature. Advances in Applied Ceramics, 2011, 110, 25-29.	0.6	4
51	Clean interface without any intermixed state between ultra-thin P3 polymer and CH ₃ NH ₃ PbI ₃ hybrid perovskite thin film. Scientific Reports, 2019, 9, 10853.	1.6	4
52	Chemical and Structural Stabilities of Si _N x Nano-Scale Islands Formed by Ionized N ₂ Gas at Room Temperature. Japanese Journal of Applied Physics, 2004, 43, 1127-1130.	0.8	3
53	Chemical phase transitions of a Si oxide film on SiC by MeV electron beam irradiation. Applied Physics Letters, 2007, 91, 111910.	1.5	3
54	Chemical states of Bi-doped GeTe (Bi: 6Åt.%) thin film in structural phase transition investigated by synchrotron X-ray photoelectron spectroscopy. Current Applied Physics, 2010, 10, 1336-1339.	1.1	3

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55	High-resolution X-ray photoelectron spectroscopy study of InTe thin film in structural phase transition from amorphous to crystalline phase. <i>Thin Solid Films</i> , 2010, 518, 4442-4445.	0.8	3
56	Spontaneous formation of Ge nanocrystals with the capping layer of Si ₃ N ₄ by N ₂ ⁺ implantation and rapid thermal annealing. <i>Thin Solid Films</i> , 2010, 518, 6010-6014.	0.8	3
57	Two different phase-change origins with chemical- and structural-phase-changes in C doped (1.5â€%wt.%) In ₃ Sb ₁ Te ₂ . <i>Scientific Reports</i> , 2016, 6, 38663.	1.6	3
58	Bias effect on surface chemical states of CH ₃ NH ₃ PbBr ₃ hybrid perovskite single crystal: Decreasing CH ₃ NH ₂ molecular defect. <i>Applied Surface Science</i> , 2021, 542, 148536.	3.1	3
59	Terahertz Wave Absorption Property of all Mixed Organicâ€“Inorganic Hybrid Perovskite Thin Film MA(Sn, Pb)(Br, I) ₃ Fabricated by Sequential Vacuum Evaporation Method. <i>Frontiers in Chemistry</i> , 2021, 9, 753141.	1.8	3
60	Correlation of THz-wave absorption properties by different halogen elements in FAPb(Br, I)-based hybrid perovskite thin films. <i>Applied Physics Express</i> , 2021, 14, 121002.	1.1	2
61	Photoelectron spectrum from a thin organic layer exposed to intense x rays. <i>Journal of Applied Physics</i> , 2007, 101, 034907.	1.1	1
62	Temperature-dependent high-resolution X-ray photoelectron spectroscopic study on Ge ₁ Sb ₂ Te ₄ . <i>Thin Solid Films</i> , 2010, 518, 5670-5672.	0.8	1
63	Only the chemical state of Indium changes in Mn-doped In ₃ Sb ₁ Te ₂ (Mn: 10 at.%) during multi-level resistance changes. <i>Scientific Reports</i> , 2015, 4, 4702.	1.6	1
64	Self-Assembled Perovskite Nanoislands on CH ₃ NH ₃ PbI ₃ Cuboid Single Crystals by Energetic Surface Engineering (<i>Adv. Funct. Mater.</i> 50/2021). <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	1
65	Synchrotron-Radiation Study of Valence States and Electronic Structures of $\text{AgNi}_{1-x}\text{Co}_x\text{O}_2$ Delafossite Oxides. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2580-2583.	1.2	0
66	Observations on Si-based micro-clusters embedded in TaN thin film deposited by co-sputtering with oxygen contamination. <i>AIP Advances</i> , 2015, 5, .	0.6	0
67	Ultrathin polycrystalline 6,13-Bis(triisopropylsilylethynyl)-pentacene films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 021506.	0.9	0
68	An origin of the irreproducibility of hole injection barrier from Au top-contact electrodes and its influence on device performance in top-contact organic field-effect transistors. <i>Organic Electronics</i> , 2019, 69, 92-97.	1.4	0