Sho Shirakata

List of Publications by Year
in descending order

40 papers	615 citations	687363 13 h-index	610901 24 g-index
41 all docs	41 docs citations	41 times ranked	593 citing authors

#	Article	IF	Citations
1	Time-resolved photoluminescence in Cu(In,Ga)Se2 thin films and solar cells. Thin Solid Films, 2007, 515, 6151-6154.	1.8	95
2	Effects of CdS buffer layers on photoluminescence properties of Cu(In,Ga)Se2 solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 988-992.	6.2	77
3	Visible and Ultraviolet Photoluminescence from Cuâ€“IIIâ€“VI2Chalcopyrite Semiconductors Grown by Metalorganic Vapor Phase Epitaxy. Japanese Journal of Applied Physics, 1997, 36, 1703-1714.	1.5	58
4	Photoluminescence and time-resolved photoluminescence in Cu(In,Ga)Se2thin films and solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1059-1062.	0.8	39
5	Impacts of pulsed-laser assisted deposition on CIGS thin films and solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 1463-1470.	6.2	35
6	Electroreflectance of CuInSe$_{f 2}$ Single Crystals. Japanese Journal of Applied Physics, 1997, 36, L543-L546.	1.5	27
7	Photoreflectance Study of CuAlSe2Heteroepitaxial Layers. Japanese Journal of Applied Physics, 1993, 32, L167-L169.	1.5	25
8	Ultraviolet photoluminescence from CuAlS2 heteroepitaxial layers grown by lowâ€pressure metalorganic chemical vapor deposition. Applied Physics Letters, 1995, 66, 3513-3515.	3.3	22
9	Photoreflectance and Photoluminescence Studies of CuAlxGa1-xSe2Alloys. Japanese Journal of Applied Physics, 1993, 32, L1304-L1307.	1.5	21
10	Room-Temperature Photoreflectance of CuAlxGa1-xSe2Alloys. Japanese Journal of Applied Physics, 1997, 36, 7160-7161.	1.5	20
11	Raman scattering and its hydrostatic pressure dependence in ZnGeP2 crystal. Journal of Applied Physics, 1999, 85, 3294-3300.	2.5	18
12	Optical properties of CuGaSe2 and CuAlSe2 layers epitaxially grown on Cu(In0.04Ga0.96)Se2 substrates. Journal of Applied Physics, 2000, 87, 7294-7302.	2.5	17
13	Near-band-edge photoluminescnce in Cu(In,Ga)Se2 solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 219-222.	6.2	16
14	Photoluminescence properties of ZnSnP₂ single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1116-1119.	0.8	13
15	Local structure of CuInSe2thin film studied by extended xâ€ray absorption fine structure. Journal of Applied Physics, 1994, 76, 7864-7869.	2.5	12
16	Improved quality of CuGaSe2 and CuAlSe2 epilayers grown on CuGa0.96In0.04Se2 substrates. Applied Physics Letters, 1997, 71, 533-535.	3.3	12
17	Structural, optical and electrical properties of CuInS2 thin films prepared by chemical spray pyrolysis. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2588-2591.	0.8	12
18	Characterization of Cu(In,Ga)Se₂Solar Cell Fabrication Process by Photoluminescence. Japanese Journal of Applied Physics, 2012, 51, 10NC13.	1.5	12

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19	Photoluminescence characterization of surface degradation mechanism in Cu(In,Ga)Se₂thin films grown on Mo/soda lime glass substrate. Japanese Journal of Applied Physics, 2014, 53, 05FW11.	1.5	11
20	Photoluminescence characterization of photovoltaic effect in ZnO/CdS/Cu(In,Ga)Se2 heterostructure. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1322-1327.	1.8	10
21	Shape controllability and photoluminescence properties of ZnO nanorods grown by chemical bath deposition. Thin Solid Films, 2013, 549, 292-298.	1.8	10
22	Optical characterization of CuInSe2single crystals prepared by travelling heater method. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2897-2903.	1.8	8
23	Site selective doping of Zn for the pâ€type Cu(In,Ga)Se₂ thin film for solar cell application. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, .	0.8	6
24	Photoluminescence of Cu(In,Ga)Se2in the Solar Cell Preparation Process. Japanese Journal of Applied Physics, 2011, 50, 05FC02.	1.5	6
25	Photoluminescence characterization of Cu(In,Ga)Se₂ solarâ€cell processes. Physica Status Solidi (B): Basic Research, 2015, 252, 1211-1218.	1.5	5
26	Xâ€Ray Fluorescence Holography Analysis of Local Structure in CuInSe₂ and CuGaSe₂. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800971.	1.8	5
27	Possibility of Shape Control of ZnO Nanostructures Grown by Atmospheric-pressure CVD Utilizing Catalytic Materials. E-Journal of Surface Science and Nanotechnology, 2009, 7, 78-83.	0.4	5
28	Characterization of Cu(In,Ga)Se2thin films and solar cells by photoacoustic spectroscopy. Japanese Journal of Applied Physics, 2014, 53, 05FW12.	1.5	3
29	Impact of waterâ€rinse treatment on Cu₂ZnSnS₄ studied by Xâ€ray absorption nearâ€edge structure analysis. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 721-724.	0.8	3
30	Structural and optical properties of polycrystalline MgxZn1â€“xO and ZnO:Mn films prepared by chemical spray pyrolysis. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2677-2680.	0.8	2
31	Studies of quantum levels in GaInNAs single quantum wells. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2680-2685.	1.8	2
32	Comparative study of optical properties of ZnO films and nanorods grown by atmosphericâ€pressure CVD and chemical bath deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1580-1583.	0.8	2
33	Preparation of CuAlSe₂/CuGaSe₂ Heterostructures by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2000, 39, 196.	1.5	1
34	Structural and optical properties of ZnO films grown by atmospheric- pressure CVD methods using different source materials. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 509-511.	0.8	1
35	In situ ellipsometric study of the three-stage process in CuInSe2film deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1005-1008.	0.8	1
36	Preparation of europium-doped GaN and AlGaN films grown by radical-nitrogen-assisted compound-source MBE. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 837-840.	0.8	1

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37	A Study of Doping Profile for the Site Selectively Znâ€Doped pâ€type Cu(In,Ga)Se₂ Thin Film for Solar Cell. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800890.	1.8	1
38	Local structure analysis of Cu(In,Ga)Se ₂ by Xâ€ray fluorescence holography. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, 1600171.	0.8	1
39	Deep absorption band in Cu(In,Ga)Se₂ thin films and solar cells observed by transparent piezoelectric photothermal spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 584-587.	0.8	0
40	Characterization of CIGS Solar Cell Process and Cell Properties. Journal of Smart Processing, 2013, 2, 230-235.	0.1	0