

Takhirdjon Razykov

List of Publications by Year in descending order

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42
papers

1,618
citations

566801

15
h-index

288905

40
g-index

47
all docs

47
docs citations

47
times ranked

2020
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar photovoltaic electricity: Current status and future prospects. <i>Solar Energy</i> , 2011, 85, 1580-1608.	2.9	810
2	A review of Sb ₂ Se ₃ photovoltaic absorber materials and thin-film solar cells. <i>Solar Energy</i> , 2020, 201, 227-246.	2.9	243
3	Research and development aspects on decentralized electrification options for rural household. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 24, 314-324.	8.2	86
4	Effect of CdCl ₂ treatment on structural and electronic property of CdTe thin films deposited by magnetron sputtering. <i>Thin Solid Films</i> , 2013, 546, 367-374.	0.8	53
5	Characterisation of SnSe thin films fabricated by chemical molecular beam deposition for use in thin film solar cells. <i>Solar Energy</i> , 2018, 159, 834-840.	2.9	38
6	Physical properties of II-VI binary and multi-component compound films and heterostructures fabricated by chemical vapour deposition. <i>Thin Solid Films</i> , 1988, 164, 301-308.	0.8	31
7	Structural, photoluminescent and electrical properties of CdTe films with different compositions fabricated by CMBD. <i>Solar Energy</i> , 2009, 83, 90-93.	2.9	31
8	Growth optimization of Zn _x Cd _{1-x} S thin films by radio frequency magnetron co-sputtering for solar cell applications. <i>Thin Solid Films</i> , 2013, 548, 202-209.	0.8	26
9	Solar attenuation by aerosols: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4264-4276.	8.2	25
10	Growth and characterization of Sb ₂ Se ₃ thin films for solar cells. <i>Solar Energy</i> , 2018, 173, 225-228.	2.9	25
11	Effect of Annealing on the Properties of Zn _x Cd _{1-x} S Thin Film Growth by RF Magnetron Co-sputtering. <i>Energy Procedia</i> , 2013, 33, 214-222.	1.8	24
12	Effect of the grain boundaries on the conductivity and current transport in II-VI films. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2255-2262.	3.0	23
13	Chemical molecular beam deposition of II-VI binary and ternary compound films in a gas flow. <i>Applied Surface Science</i> , 1991, 48-49, 89-92.	3.1	22
14	Physical properties of films fabricated by CVD in hydrogen flow for use in solar cells. <i>Solar Energy Materials and Solar Cells</i> , 1985, 12, 233-238.	0.4	21
15	Structural and morphological properties of PLD Sb ₂ Se ₃ thin films for use in solar cells. <i>Solar Energy</i> , 2020, 208, 451-456.	2.9	20
16	Effect of CdCl ₂ treatment on physical properties of CdTe films with different compositions fabricated by chemical molecular beam deposition. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2013, 49, 35-39.	0.2	14
17	Effect of the composition on physical properties of CdTe absorber layer fabricated by chemical molecular beam deposition for use in thin film solar cells. <i>Journal of Applied Physics</i> , 2012, 112, 023517.	1.1	12
18	Characterization of CdTe thin films with different compositions obtained by CMBD for thin film solar cells. <i>Solar Energy</i> , 2017, 144, 411-416.	2.9	12

#	ARTICLE	IF	CITATIONS
19	Revolutionary novel and low cost CMBD method for fabrication of CdTe absorber layer for use in thin film solar cells. <i>Materials Technology</i> , 2013, 28, 15-20.	1.5	8
20	Morphological and Structural Characteristics of Sb ₂ Se ₃ Thin Films Fabricated by Chemical Molecular Beam Deposition. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2019, 55, 376-379.	0.2	8
21	Influence of the growth rate on the nanocrystallinity of II-VI films in chemical vapor deposition. <i>Solar Energy</i> , 2006, 80, 182-184.	2.9	7
22	The effect of complex thermal treatment on the electrophysical and morphological properties of CdTe films obtained by chemical molecular beam deposition. <i>Applied Solar Energy (English Translation)</i> Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	7
23	Fabrication of Thin-Film Solar Cells Based on CdTe Films and Investigation of Their Photoelectrical Properties. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2020, 56, 94-98.	0.2	7
24	Physical properties of thin film Cu ₂ S/ZnxCd _{1-x} heterojunction solar cells fabricated by aqueous treatment and solid state reaction. <i>Thin Solid Films</i> , 1984, 121, 1-6.	0.8	5
25	Energy band diagrams, of Cu ₂ Si ₂ ZnxCd _{1-x} S(0 ≤ x ≤ 1) heterojunctions. <i>Physica Status Solidi A</i> , 1984, 84, K71-K74.	1.7	5
26	Introduction of Sb in CDTE and its effect on CDTE solar cells. <i>Conference Record of the IEEE Photovoltaic Specialists Conference</i> , 2008, , .	0.0	5
27	Physical Properties of (ZnSe) _x (CdTe) _{1-x} Multicomponent System Films Fabricated by CVD in Hydrogen Flow. <i>Physica Status Solidi A</i> , 1986, 96, 281-284.	1.7	4
28	Zn<inf>x</inf>/Cd<inf>1−x</inf>S as prospective window layer in CdTe thin film solar cells from numerical analysis. , 2011, , .		4
29	Production and Characteristics of (ZnSe) _{0.1} (SnSe) _{0.9} Films for Use in Thin Film Solar Cells. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2018, 54, 255-260.	0.2	4
30	Growth and characterization of Zn _x Sn _{1-x} Se films for use in thin film solar cells. <i>Solar Energy</i> , 2019, 193, 519-522.	2.9	4
31	A novel chemical molecular beam deposition method for fabrication of II-VI low dimensional structures. <i>Microelectronics Journal</i> , 2005, 36, 599-600.	1.1	3
32	Fabrication and crystallophysical properties of (ZnSe) _x (CdTe) _{1-x} (x = 0~1) multicomponent system films. <i>Thin Solid Films</i> , 1988, 162, 257-261.	0.8	2
33	Electron microprobe X-ray spectral analysis of CMBD CdTe films of different composition. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2009, 45, 48-50.	0.2	2
34	Research of the morphological and structural properties of CdTe films obtained by chemical molecular beam deposition for thin film solar cells. <i>Applied Solar Energy (English Translation of)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 13	0.2	2
35	Characterization of CdTe and CdS Films for Photoresistors. <i>Applied Solar Energy (English Translation)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 13	0.2	2
36	Properties of exactly compensated semiconductors under excitonic modulation of the charge of deep impurities. <i>Semiconductor Science and Technology</i> , 2000, 15, 638-642.	1.0	1

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37	Investigation of buffer layers, front and back contacts for Zn<inf>x</inf>Cd<inf>1−x</inf>S/CdTe photovoltaic. , 2011, , .		1
38	Numerical analysis on Zn<inf>x</inf>Cd<inf>1−x</inf>S/CdTe solar cells with different buffer layers, front and back contacts. , 2011, , .		1
39	An analysis on structural and optical properties of Zn<inf>x</inf>Cd<inf>1−x</inf>S thin film deposited by RF magnetron sputtering. , 2012, , .		1
40	Effect of Substrate Temperature on the Physical Properties of Zn<inf>x</inf>Sn1−x</inf>Se Films for Thin-Film Solar Cells. Applied Solar Energy (English Translation of Geliotekhnika), 2019, 55, 315-320.	0.2	1
41	Study of the physical properties of CdTe-Based thin-film solar cells produced on metal substrates by the method of chemical molecular beam deposition. Applied Solar Energy (English Translation of) Tj ETQq1 1 0.784614 rgBT (Overlock	0.2	1
42	Influence of composition and heat treatment in CdCl2 solution on intrinsic point defects in CdTe films. Applied Solar Energy (English Translation of Geliotekhnika), 2017, 53, 299-302.	0.2	0