

# Takhirdjon Razykov

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Structural and morphological properties of PLD Sb <sub>2</sub> Se <sub>3</sub> thin films for use in solar cells. Solar Energy, 2020, 208, 451-456.	2.9	20
2	Fabrication of Thin-Film Solar Cells Based on CdTe Films and Investigation of Their Photoelectrical Properties. Applied Solar Energy (English Translation of Geliotekhnika), 2020, 56, 94-98.	0.2	7
3	A review of Sb <sub>2</sub> Se <sub>3</sub> photovoltaic absorber materials and thin-film solar cells. Solar Energy, 2020, 201, 227-246.	2.9	243
4	Characterization of CdTe and CdS Films for Photoresistors. Applied Solar Energy (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	0.2	2
5	Growth and characterization of Zn <sub>x</sub> Sn <sub>1-x</sub> Se films for use in thin film solar cells. Solar Energy, 2019, 193, 519-522.	2.9	4
6	Effect of Substrate Temperature on the Physical Properties of Zn <sub>1-x</sub> Sn <sub>x</sub> Se Films for Thin-Film Solar Cells. Applied Solar Energy (English Translation of Geliotekhnika), 2019, 55, 315-320.	0.2	1
7	Morphological and Structural Characteristics of Sb <sub>2</sub> Se <sub>3</sub> Thin Films Fabricated by Chemical Molecular Beam Deposition. Applied Solar Energy (English Translation of Geliotekhnika), 2019, 55, 376-379.	0.2	8
8	Characterisation of SnSe thin films fabricated by chemical molecular beam deposition for use in thin film solar cells. Solar Energy, 2018, 159, 834-840.	2.9	38
9	Production and Characteristics of (ZnSe) <sub>0.1</sub> (SnSe) <sub>0.9</sub> Films for Use in Thin Film Solar Cells. Applied Solar Energy (English Translation of Geliotekhnika), 2018, 54, 255-260.	0.2	4
10	Growth and characterization of Sb <sub>2</sub> Se <sub>3</sub> thin films for solar cells. Solar Energy, 2018, 173, 225-228.	2.9	25
11	Characterization of CdTe thin films with different compositions obtained by CMBD for thin film solar cells. Solar Energy, 2017, 144, 411-416.	2.9	12
12	Influence of composition and heat treatment in CdCl <sub>2</sub> solution on intrinsic point defects in CdTe films. Applied Solar Energy (English Translation of Geliotekhnika), 2017, 53, 299-302.	0.2	0
13	Research of the morphological and structural properties of CdTe films obtained by chemical molecular beam deposition for thin film solar cells. Applied Solar Energy (English Translation of) Tj ETQq1 1 0.7843 1 2 rgBT /Overlock 10 Tf 50 2	0.2	0
14	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	0.2	0
15	Effect of CdCl <sub>2</sub> treatment on physical properties of CdTe films with different compositions fabricated by chemical molecular beam deposition. Applied Solar Energy (English Translation of Geliotekhnika), 2013, 49, 35-39.	0.2	14
16	Effect of Annealing on the Properties of Zn <sub>x</sub> Cd <sub>1-x</sub> S Thin Film Growth by RF Magnetron Co-sputtering. Energy Procedia, 2013, 33, 214-222.	1.8	24
17	Growth optimization of Zn <sub>x</sub> Cd <sub>1-x</sub> S thin films by radio frequency magnetron co-sputtering for solar cell applications. Thin Solid Films, 2013, 548, 202-209.	0.8	26
18	Effect of CdCl <sub>2</sub> treatment on structural and electronic property of CdTe thin films deposited by magnetron sputtering. Thin Solid Films, 2013, 546, 367-374.	0.8	53

#	ARTICLE	IF	CITATIONS
19	Research and development aspects on decentralized electrification options for rural household. Renewable and Sustainable Energy Reviews, 2013, 24, 314-324.	8.2	86
20	Revolutionary novel and low cost CMBD method for fabrication of CdTe absorber layer for use in thin film solar cells. Materials Technology, 2013, 28, 15-20.	1.5	8
21	Effect of the composition on physical properties of CdTe absorber layer fabricated by chemical molecular beam deposition for use in thin film solar cells. Journal of Applied Physics, 2012, 112, 023517.	1.1	12
22	An analysis on structural and optical properties of Zn <sub>x</sub> Cd <sub>1-x</sub> S thin film deposited by RF magnetron sputtering. , 2012, , .		1
23	Solar attenuation by aerosols: An overview. Renewable and Sustainable Energy Reviews, 2012, 16, 4264-4276.	8.2	25
24	Investigation of buffer layers, front and back contacts for Zn <sub>x</sub> Cd <sub>1-x</sub> S/CdTe photovoltaic. , 2011, , .		1
25	Solar photovoltaic electricity: Current status and future prospects. Solar Energy, 2011, 85, 1580-1608.	2.9	810
26	Zn <sub>x</sub> Cd <sub>1-x</sub> S as prospective window layer in CdTe thin film solar cells from numerical analysis. , 2011, , .		4
27	Numerical analysis on Zn <sub>x</sub> Cd <sub>1-x</sub> S/CdTe solar cells with different buffer layers, front and back contacts. , 2011, , .		1
28	The effect of complex thermal treatment on the electrophysical and morphological properties of CdTe films obtained by chemical molecular beam deposition. Applied Solar Energy (English Translation) Tj ETQq0 0 0.0gBT /Overlock 10 T		
29	Structural, photoluminescent and electrical properties of CdTe films with different compositions fabricated by CMBD. Solar Energy, 2009, 83, 90-93.	2.9	31
30	Electron microprobe X-ray spectral analysis of CMBD CdTe films of different composition. Applied Solar Energy (English Translation of Geliotekhnika), 2009, 45, 48-50.	0.2	2
31	Introduction of Sb in CDTE and its effect on CDTE solar cells. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	5
32	Influence of the growth rate on the nanocrystallinity of II <sup>-VI</sup> films in chemical vapor deposition. Solar Energy, 2006, 80, 182-184.	2.9	7
33	Effect of the grain boundaries on the conductivity and current transport in II <sup>-VI</sup> films. Solar Energy Materials and Solar Cells, 2006, 90, 2255-2262.	3.0	23
34	A novel chemical molecular beam deposition method for fabrication of II <sup>-VI</sup> low dimensional structures. Microelectronics Journal, 2005, 36, 599-600.	1.1	3
35	Properties of exactly compensated semiconductors under excitonic modulation of the charge of deep impurities. Semiconductor Science and Technology, 2000, 15, 638-642.	1.0	1
36	Chemical molecular beam deposition of II <sup>-VI</sup> binary and ternary compound films in a gas flow. Applied Surface Science, 1991, 48-49, 89-92.	3.1	22

#	ARTICLE	IF	CITATIONS
37	Physical properties of II-VI binary and multi-component compound films and heterostructures fabricated by chemical vapour deposition. Thin Solid Films, 1988, 164, 301-308.	0.8	31
38	Fabrication and crystallophysical properties of $(\text{ZnSe})_x(\text{CdTe})_{1-x}$ ( $x = 0 \sim 1$ ) multicomponent system films. Thin Solid Films, 1988, 162, 257-261.	0.8	2
39	Physical Properties of $(\text{ZnSe})_x(\text{CdTe})_{1-x}$ Multicomponent System Films Fabricated by CVD in Hydrogen Flow. Physica Status Solidi A, 1986, 96, 281-284.	1.7	4
40	Physical properties of films fabricated by CVD in hydrogen flow for use in solar cells. Solar Energy Materials and Solar Cells, 1985, 12, 233-238.	0.4	21
41	Physical properties of thin film $\text{Cu}_2\text{S}/\text{Zn}_x\text{Cd}_{1-x}\text{S}$ heterojunction solar cells fabricated by aqueous treatment and solid state reaction. Thin Solid Films, 1984, 121, 1-6.	0.8	5
42	Energy band diagrams, of $\text{Cu}_2\text{S}/\text{Zn}_x\text{Cd}_{1-x}\text{S}$ ( $0 \leq x \leq 1$ ) heterojunctions. Physica Status Solidi A, 1984, 84, K71-K74.	1.7	5