Igor Sokolovskyi

List of Publications by Year
in descending order

24 papers	176 citations	1307594 7 h-index	1125743 13 g-index
24 all docs	24 docs citations	24 times ranked	61 citing authors

#	Article	IF	Citations
1	Minimizing Reabsorption in Multilayered Luminescent Solar Concentrators with Quantum Dots. , 2021, , .		0
2	Characterization and Optimization of Highly Efficient Silicon-Based Textured Solar Cells: Theory and Experiment. , 2021, , .		2
3	Analysis of the recombination mechanisms in silicon solar cells with the record 26.6% photoconversion efficiency. , 2021, , .		2
4	Modeling of the key characteristics of high-efficiency silicon solar cells with planar surfaces. , 2021, , .		0
5	Effect of Temperature on Limit Photoconversion Efficiency in Silicon Solar Cells. IEEE Journal of Photovoltaics, 2020, 10, 63-69.	2.5	16
6	Optimization of Textured Silicon Solar Cells. , 2020, , .		4
7	Limit Temperature Coefficient in Silicon Solar Cells. , 2020, , .		1
8	The Effect of Base Thickness on Photoconversion Efficiency in Textured Silicon-Based Solar Cells. Technical Physics Letters, 2018, 44, 873-876.	0.7	24
9	Specific features of current flow in Î±-Si : H/Si heterojunction solar cells. Technical Physics Letters, 2017, 43, 152-155.	0.7	25
10	Peculiarities of photoconversion efficiency modeling in perovskite solar cells. Technical Physics Letters, 2017, 43, 678-680.	0.7	3
11	Temperature dependence of photoconversion efficiency in silicon heterojunction solar cells: Theory vs experiment. Journal of Applied Physics, 2016, 119, .	2.5	31
12	Simulation of the real efficiencies of high-efficiency silicon solar cells. Semiconductors, 2016, 50, 523-529.	0.5	2
13	The temperature dependence of the characteristics of crystalline-silicon-based heterojunction solar cells. Technical Physics Letters, 2016, 42, 313-316.	0.7	7
14	Method for optimizing the parameters of heterojunction photovoltaic cells based on crystalline silicon. Semiconductors, 2016, 50, 257-260.	0.5	10
15	Analysis of the attainable efficiency of a direct-bandgap betavoltaic element. Journal Physics D: Applied Physics, 2015, 48, 455101.	2.8	4
16	Simulation of the natural characteristics of vertical a-Si:H/Î¼c-Si:H tandem solar cells. 2. Analysis of the results and comparison with the experiment. Semiconductors, 2015, 49, 693-699.	0.5	0
17	Features of photoconversion in highly efficient silicon solar cells. Semiconductors, 2015, 49, 264-269.	0.5	18
18	Analysis of the possibility of high-efficiency photovoltaic conversion in tandem heterojunction thin-layer solar cells. Technical Physics Letters, 2015, 41, 482-485.	0.7	5

#	Article	IF	Citations
19	Simulation of the natural characteristics of vertical a-Si:H/Ĩ¼c-Si:H tandem solar cells. 1. General relations. Semiconductors, 2015, 49, 683-692.	0.5	2
20	Modeling the efficiency of multijunction solar cells. Semiconductors, 2014, 48, 675-682.	0.5	8
21	Simulation of daytime variations in the characteristics of a-Si:H solar cells. Technical Physics, 2013, 58, 1625-1631.	0.7	4
22	Annual dependences of generated power and electrical energy for a-Si:H-based solar cells. Technical Physics, 2013, 58, 1632-1637.	0.7	3
23	Analytical model of photo-conversion in polycrystalline silicon. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
24	Comparative analysis of photoconversion efficiency in the Si solar cells under concentrated illumination for the standard and rear geometries of arrangement of contacts. Semiconductors, 2007, 41, 1214-1223.	0.5	5