

Kentaro Imamura

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1607752/publications.pdf>

Version: 2024-02-01

27
papers

272
citations

933447

10
h-index

940533

16
g-index

27
all docs

27
docs citations

27
times ranked

207
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of ultralow reflectance Si solar cells by machine-learning-assisted optimization for diffusion process. <i>Materials Today Communications</i> , 2022, 31, 103250.	1.9	0
2	Improvement of blue response of black Si solar cells due to graded band structure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 140, 115196.	2.7	0
3	Structure and hydrogen generation mechanism of Si-based agent. <i>Applied Surface Science</i> , 2021, 536, 147398.	6.1	6
4	Communication“Enhancement of Boron Back-Surface-Field and Suppression of Auger Recombination to Improve Ultralow-Reflectance Si Solar Cells. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 045013.	1.8	3
5	Surface structure chemical transfer method to fabricate low reflectance multi-crystalline Si wafers produced with fixed abrasive machining technology. <i>AIP Advances</i> , 2019, 9, .	1.3	0
6	Planarization mechanism for 6H“SiC (0001) Si-faced surfaces using electrochemical reactions. <i>Materials Research Express</i> , 2019, 6, 055906.	1.6	7
7	Black silicon “ correlation between microstructure and Raman scattering. <i>Journal of Electrical Engineering</i> , 2019, 70, 58-64.	0.7	0
8	Investigation of morphological and optical properties of nanostructured layers formed by the SSCT etching of silicon. <i>Applied Surface Science</i> , 2018, 461, 72-77.	6.1	1
9	Effective passivation for nanocrystalline Si layer/crystalline Si solar cells by use of phosphosilicate glass. <i>Solar Energy</i> , 2018, 169, 297-301.	6.1	5
10	Properties of nanostructured layers formed on silicon. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
11	Light trapping of crystalline Si solar cells by use of nanocrystalline Si layer plus pyramidal texture. <i>Applied Surface Science</i> , 2017, 395, 50-55.	6.1	9
12	Multifractal analysis and optical properties of nanostructured silicon layers. <i>Applied Surface Science</i> , 2017, 395, 150-156.	6.1	12
13	Mechanism of ultra-low reflectance for nanocrystalline Si/crystalline Si structure formed by surface structure chemical transfer method. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	12
14	Surface nanocrystalline Si structure and its surface passivation for highly efficient black Si solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 358-366.	8.1	15
15	Fabrication Mechanism of Atomically Flat n-Type 4H-SiC (000-1) Surfaces by Electrochemical Method. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, P265-P269.	1.8	6
16	Hydrogen generation by reaction of Si nanopowder with neutral water. <i>Journal of Nanoparticle Research</i> , 2017, 19, 176.	1.9	46
17	Improvement of Conversion Efficiency of Silicon Solar Cells by Submicron“Textured Rear Reflector Obtained by Metal“Assisted Chemical Etching. <i>Solar Rrl</i> , 2017, 1, 1700061.	5.8	8
18	Reaction of Si nanopowder with water investigated by FT-IR and XPS. <i>AIP Advances</i> , 2017, 7, .	1.3	18

#	ARTICLE	IF	CITATIONS
19	Properties of nanocrystalline Si layers embedded in structure of solar cell. Journal of Electrical Engineering, 2017, 68, 48-52.	0.7	0
20	High conversion efficiency of crystalline Si solar cells using black Si^{\sim} Si fabricated by SSCT method. Journal of Electrical Engineering, 2017, 68, 37-42.	0.7	4
21	Fabrication of Si nanopowder and application to hydrogen generation and photoluminescent material. Journal of Electrical Engineering, 2017, 68, 17-23.	0.7	4
22	Analysis of Photoluminescence in the NCSI-DMA System. Communications - Scientific Letters of the University of Zilina, 2017, 19, 21-25.	0.6	0
23	Hydrogen generation from water using Si nanopowder fabricated from swarf. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	15
24	Ultralow reflectivity surfaces by formation of nanocrystalline Si layer for crystalline Si solar cells. Solar Energy Materials and Solar Cells, 2015, 141, 1-6.	6.2	17
25	Fabrication of Si nanoparticles from Si swarf and application to solar cells. Applied Surface Science, 2014, 312, 39-42.	6.1	46
26	Surface Structure Chemical Transfer Method for Formation of Ultralow Reflectivity Si Surfaces. Journal of the Electrochemical Society, 2013, 160, H443-H445.	2.9	17
27	Ultra-low reflectivity polycrystalline silicon surfaces formed by surface structure chemical transfer method. Applied Physics Letters, 2013, 103, .	3.3	21