

# Ajay Upadhyaya

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

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citations

1478505

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1588992

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16  
docs citations

16  
times ranked

369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large area tunnel oxide passivated rear contact n-type Si solar cells with 21.2% efficiency. Progress in Photovoltaics: Research and Applications, 2016, 24, 830-835.	8.1	78
2	Chemical etching of boron-rich layer and its impact on high efficiency n-type silicon solar cells. Applied Physics Letters, 2012, 101, 073902.	3.3	44
3	Optimization of SiN AR coating for Si solar cells and modules through quantitative assessment of optical and efficiency loss mechanism. Progress in Photovoltaics: Research and Applications, 2011, 19, 983-990.	8.1	38
4	Bulk lifetime and efficiency enhancement due to gettering and hydrogenation of defects during cast multicrystalline silicon solar cell fabrication. Solid-State Electronics, 2008, 52, 612-617.	1.4	27
5	High efficiency large area n-type front junction silicon solar cells with boron emitter formed by screen printing technology. Progress in Photovoltaics: Research and Applications, 2015, 23, 119-123.	8.1	18
6	High-Efficiency n-Type Si Solar Cells With Novel Inkjet-Printed Boron Emitters. IEEE Electron Device Letters, 2012, 33, 854-856.	3.9	13
7	High efficiency solar cells on direct kerfless 156 mm mono crystalline Si wafers by high throughput epitaxial growth. , 2014, , .		9
8	Greater Than 16% Efficient Screen Printed Solar Cells on 115-170 $\mu$ m Thick Cast Multicrystalline Silicon. , 2006, , .		6
9	High efficiency n-type solar cells with screen-printed boron emitters and ion-implanted back surface field. , 2012, , .		5
10	High efficiency screen-printed 156cm <sup>2</sup> solar cells on thin epitaxially grown silicon material. , 2013, , .		4
11	Sulfurization as a promising surface passivation approach for both n- and p-type Si. , 2020, , .		4
12	Investigation of the Effect of Resistivity and Thickness on the Performance of Cast Multicrystalline Silicon Solar Cells. , 2006, , .		3
13	High efficiency n-type silicon solar cell with a novel inkjet-printed boron emitter. , 2011, , .		2
14	High-Efficiency Large-Area Screen-Printed Solar Cell on Epitaxial Thin Active Layer With Porous Si Back Reflector Using Standard Industrial Process. IEEE Journal of Photovoltaics, 2015, 5, 123-128.	2.5	2
15	Dopant diffused Si surface passivation by H <sub>2</sub> S gas reaction and quinhydrone-methanol treatment. , 2021, , .		2