

Vincenzo LaSalvia

List of Publications by Year in descending order

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34
papers

450
citations

1040056

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h-index

1058476

14
g-index

34
all docs

34
docs citations

34
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	Polycrystalline silicon passivated tunneling contacts for high efficiency silicon solar cells. Journal of Materials Research, 2016, 31, 671-681.	2.6	133
2	Realization of GaInP/Si Dual-Junction Solar Cells With 29.8% 1-Sun Efficiency. IEEE Journal of Photovoltaics, 2016, 6, 1012-1019.	2.5	114
3	Gallium-Doped Poly-Si:Ga/SiO ₂ Passivated Emitters to n-Cz Wafers With $iV_{oc} > 730$ mV. IEEE Journal of Photovoltaics, 2017, 7, 1640-1645.	2.5	31
4	Biaxially-textured photovoltaic film crystal silicon on ion beam assisted deposition CaF ₂ seed layers on glass. Energy and Environmental Science, 2012, 5, 6905.	30.8	30
5	Effect of Crystallographic Orientation and Nanoscale Surface Morphology on Poly-Si/SiO _x Contacts for Silicon Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 42021-42031.	8.0	29
6	Effect of the SiO ₂ interlayer properties with solid-source hydrogenation on passivated contact performance and surface passivation. Energy Procedia, 2017, 124, 295-301.	1.8	24
7	Tabula Rasa for n-Cz silicon-based photovoltaics. Progress in Photovoltaics: Research and Applications, 2019, 27, 136-143.	8.1	12
8	Isolating p- and n-Doped Fingers With Intrinsic Poly-Si in Passivated Interdigitated Back Contact Silicon Solar Cells. IEEE Journal of Photovoltaics, 2020, 10, 1574-1581.	2.5	12
9	Implementation of tunneling passivated contacts into industrially relevant n-Cz Si solar cells. , 2015, , .		11
10	Solar Cell Efficiency and High Temperature Processing of n-type Silicon Grown by the Noncontact Crucible Method. Energy Procedia, 2016, 92, 815-821.	1.8	11
11	Comparison of thin epitaxial film silicon photovoltaics fabricated on monocrystalline and polycrystalline seed layers on glass. Progress in Photovoltaics: Research and Applications, 2015, 23, 909-917.	8.1	9
12	Trap-Assisted Dopant Compensation Prevents Shunting in Poly-Si Passivating Interdigitated Back Contact Silicon Solar Cells. ACS Applied Energy Materials, 2021, 4, 10774-10782.	5.1	8
13	Atomic structure of light-induced efficiency-degrading defects in boron-doped Czochralski silicon solar cells. Energy and Environmental Science, 2021, 14, 5416-5422.	30.8	6
14	600 mV epitaxial crystal silicon solar cells grown on seeded glass. , 2013, , .		4
15	Influence of Tabula Rasa on Process- and Light-Induced Degradation of Solar Cells Fabricated From Czochralski Silicon. IEEE Journal of Photovoltaics, 2020, 10, 1557-1565.	2.5	4
16	Bulk defect generation during B-diffusion and oxidation of CZ wafers: Mechanism for degrading solar cell performance. , 2014, , .		3
17	A Comparison of Surface Passivation Techniques for Measurement of Minority Carrier Lifetime in Thin Si Wafers: Toward a Stable and Uniform Passivation. Materials Research Society Symposia Proceedings, 2014, 1670, 45.	0.1	3
18	Ion implanted passivated contacts for interdigitated back contacted solar cells. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
19	Improved 750 μm SiO_2/Si epitaxial crystal silicon solar cells through impurity reduction. , 2013, , .		1
20	Plasma immersion ion implantation for interdigitated back passivated contact (IBPC) solar cells. , 2016, , .		1
21	Self-Aligned, Selective Area Poly-Si/SiO ₂ Passivated Contacts for Enhanced Photocurrent in Front/Back Solar Cells. , 2019, , .		1
22	Dielectric stack passivation on boron- and phosphorus-diffused surfaces and 20% efficient PERT cell on n-CZ silicon substrate. , 2014, , .		0
23	Dopant Patterning by PECVD and Mechanical Masking for Passivated Tunneling Contact IBC Cell Architectures. , 2017, , .		0
24	Self Aligned Aluminum Selective Emitter for n-type Si Cells. , 2017, , .		0
25	Tabula Rasa: Oxygen precipitate dissolution through rapid high temperature processing in silicon. , 2017, , .		0
26	Enhancing Photocurrent Bulk Lifetime with Defect Engineering of Polycrystalline Passivated-Contact n-Cz Photovoltaic Devices. , 2019, , .		0
27	Mitigating Process Induced Degradation in p- and n-Czochralski Silicon Wafers with Tabula Rasa. , 2019, , .		0
28	Understanding and Mitigating the Contamination of Intrinsic poly-Si Gaps in Passivated IBC Solar Cells. , 2019, , .		0
29	Electron Paramagnetic Resonance Investigation of Mechanism of Light- and Elevated-Temperature-Induced Degradation in Ga-doped Cz Si. , 2021, , .		0
30	Trap-Assisted Dopant Compensation Prevents Shunting in poly-Si Passivating Interdigitated Back Contact Silicon Solar Cells. , 2021, , .		0
31	Understanding the origin of Tabula Rasa process-induced defects in CZ n-type c-Si. , 2020, , .		0
32	Submicron Thickness Characterization of poly-Si thin films on Textured Surfaces by X-ray Diffraction for Minimizing Parasitic Absorption in Poly-Si/SiO ₂ Passivating Contact Cells. , 2020, , .		0
33	Pinhole formation in poly-Si/SiO _x passivating contacts on Si(111)-oriented textures. , 2020, , .		0
34	Improving GaAsP/Si Tandem Solar Cells Using Silicon Passivated Contacts. , 2020, , .		0