

# Xuegong Yu

## List of Publications by Year in descending order

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128  
papers

4,393  
citations

159585

30  
h-index

114465

63  
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129  
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129  
docs citations

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times ranked

5778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired molecules design for bilateral synergistic passivation in buried interfaces of planar perovskite solar cells. <i>Nano Research</i> , 2022, 15, 1069-1078.	10.4	52
2	CVD Graphene on Textured Silicon: An Emerging Technologically Versatile Heterostructure for Energy and Detection Applications. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	19
3	A New Design of Side Heater for 3D Solid-liquid Interface Improvement in G8 Directional Solidification Silicon Ingot Growth. <i>Silicon</i> , 2022, 14, 9407-9416.	3.3	3
4	Synergistic effects of bithiophene ammonium salt for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9971-9980.	10.3	14
5	Graphene/Si Heterostructure with an Organic Interfacial Layer for a Self-Powered Photodetector with a High ON/OFF Ratio. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1715-1722.	4.3	16
6	Activation and Deactivation of Silicon Surface Passivation by Niobium Oxide Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	2.4	2
7	The effect and mechanism of current injection to suppress light and elevated temperature induced degradation in p-type cast-mono and multicrystalline silicon Passivated Emitter and Rear cells. <i>Solar Energy</i> , 2022, 235, 12-18.	6.1	6
8	Revealing the Correlation of Light Soaking Effect with Ion Migration in Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	5.8	9
9	Crystal growth and resistivity modulation of n-type phosphorus-doped cast mono-like silicon. <i>Solar Energy</i> , 2022, 236, 294-300.	6.1	6
10	Light-induced beneficial ion accumulation for high-performance quasi-2D perovskite solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2499-2507.	30.8	18
11	Multifunctional Thiophene-Based Interfacial Passivating Layer for High-Performance Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 6823-6832.	5.1	6
12	Hyperdoped Crystalline Silicon for Infrared Photodetectors by Pulsed Laser Melting: A Review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	4
13	Microdefect Characteristics in Cast Mono Silicon Wafers Induced by Slurry Sawing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000258.	1.8	4
14	Defect engineering in cast mono-like silicon: A review. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 294-314.	8.1	10
15	Stabilizing Fullerene for Burn-Free and Stable Perovskite Solar Cells under Ultraviolet Preconditioning and Light Soaking. <i>Advanced Materials</i> , 2021, 33, e2006910.	21.0	52
16	Relating Gain Degradation to Defects Production in Neutron-Irradiated 4H-SiC Transistors. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 312-317.	2.0	6
17	Atomistic Mechanism of $4\langle 111 \rangle - \langle 111 \rangle$ Interface Carrier-Trapping Effects on Breakdown-Voltage Degradation in Power Devices. <i>Physical Review Applied</i> , 2021, 15, .	3.8	7
18	Low-temperature processed tantalum/niobium co-doped $\text{TiO}_2$ electron transport layer for high-performance planar perovskite solar cells. <i>Nanotechnology</i> , 2021, 32, 245201.	2.6	21

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19	Kinetics Study on Carrier Injection-Induced Degradation and Regeneration at Elevated Temperature in p-Type Cast-Monosilicon Passivated Emitter Rear Contact Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100035.	5.8	11
20	A microscopic TEM study of the defect layers in cast-mono crystalline silicon wafers induced by diamond-wire sawing. <i>AIP Advances</i> , 2021, 11, 045103.	1.3	1
21	Understanding the Influence of Cation and Anion Migration on Mixed-Composition Perovskite Solar Cells via Transient Ion Drift. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100225.	2.4	8
22	Simultaneous Passivation of the SnO <sub>2</sub> /Perovskite Interface and Perovskite Absorber Layer in Perovskite Solar Cells Using KF Surface Treatment. <i>ACS Applied Energy Materials</i> , 2021, 4, 10921-10930.	5.1	35
23	Solution-processed molybdenum oxide films by low-temperature annealing for improved silicon surface passivation. <i>Materials Science in Semiconductor Processing</i> , 2021, 132, 105920.	4.0	10
24	Highly efficient and stable inorganic CsPbBr <sub>3</sub> perovskite solar cells via vacuum co-evaporation. <i>Applied Surface Science</i> , 2021, 562, 150153.	6.1	26
25	New Insight into the Metal-Catalyst-Free Direct Chemical Vapor Deposition Growth of Graphene on Silicon Substrates. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1774-1783.	3.1	23
26	Mitigating Ion Migration by Polyethylene Glycol-Modified Fullerene for Perovskite Solar Cells with Enhanced Stability. <i>ACS Energy Letters</i> , 2021, 6, 3864-3872.	17.4	36
27	Direct Growth of Graphene Nanowalls on Silicon Using Plasma-Enhanced Atomic Layer Deposition for High-Performance Si-Based Infrared Photodetectors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5048-5058.	4.3	19
28	Manipulating the film morphology evolution toward green solvent-processed perovskite solar cells. <i>SusMat</i> , 2021, 1, 537-544.	14.9	21
29	All-vacuum deposited and thermally stable perovskite solar cells with F4-TCNQ/CuPc hole transport layer. <i>Nanotechnology</i> , 2020, 31, 065401.	2.6	14
30	CsPbBr <sub>3</sub> quantum dots assisted crystallization of solution-processed perovskite films with preferential orientation for high performance perovskite solar cells. <i>Nanotechnology</i> , 2020, 31, 085401.	2.6	17
31	Ink Engineering of Inkjet Printing Perovskite. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39082-39091.	8.0	85
32	Effects of vacancy defects on the mechanical properties in neutron irradiated Czochralski silicon. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 275702.	1.8	3
33	Seed-Assisted Growth of Cast-Mono Silicon for Photovoltaic Application: Challenges and Strategies. <i>Solar Rrl</i> , 2020, 4, 1900486.	5.8	25
34	Towards green antisolvent for efficient CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite light emitting diodes: A comparison of toluene, chlorobenzene, and ethyl acetate. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	22
35	A review on graphene-silicon Schottky junction interface. <i>Journal of Alloys and Compounds</i> , 2019, 806, 63-70.	5.5	22
36	Optimized phosphorus diffusion process and performance improvement of c-Si solar cell by eliminating SiP precipitates in the emitter. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13820-13825.	2.2	3

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37	An Interlayer with Strong Pb-Cl Bond Delivers Ultraviolet-Filter-Free, Efficient, and Photostable Perovskite Solar Cells. <i>IScience</i> , 2019, 21, 217-227.	4.1	43
38	Investigation on the impact of hydrogen on the passivation of silicon surface states in clean and copper contaminated conditions. <i>AIP Advances</i> , 2019, 9, 105102.	1.3	6
39	Controlling dislocation gliding and propagation in quasi-single crystalline silicon by using <math>\langle 110 \rangle</math>-oriented seeds. <i>Solar Energy Materials and Solar Cells</i> , 2019, 193, 214-218.	6.2	17
40	Enhancing photoelectrochemical hydrogen production of a n<sup>+</sup>p-Si hetero-junction photocathode with amorphous Ni and Ti layers. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 527-532.	6.0	10
41	Designing functional <math>\langle 111 \rangle</math> grain boundaries at seed junctions for high-quality cast quasi-single crystalline silicon. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109985.	6.2	20
42	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy Band Engineering. <i>Advanced Materials</i> , 2019, 31, e1902543.	21.0	62
43	Negatively charged silicon nitride films for improved p-type silicon surface passivation by low-temperature rapid thermal annealing. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 345102.	2.8	12
44	Effects of nitrogen doping on vacancy-oxygen complexes in neutron irradiated Czochralski silicon. <i>Materials Science in Semiconductor Processing</i> , 2019, 98, 65-69.	4.0	6
45	Vacuum co-deposited CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films by controlling vapor pressure for efficient planar perovskite solar cells. <i>Solar Energy</i> , 2019, 181, 339-344.	6.1	26
46	Interface engineering of C60/ fluorine doped tin oxide on the photovoltaic performance of perovskite solar cells using the physical vapor deposition technique. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 225104.	2.8	13
47	Electron Radiation Effects on the 4H-SiC PiN Diodes Characteristics: An Insight From Point Defects to Electrical Degradation. <i>IEEE Access</i> , 2019, 7, 170385-170391.	4.2	8
48	Study of gamma-ray radiation effects on the passivation properties of atomic layer deposited Al <sub>2</sub> O <sub>3</sub> on silicon using deep-level transient spectroscopy. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1148-1152.	2.2	6
49	Revisiting the effects of carbon-doping at 10 <sup>17</sup> cm <sup>-3</sup> level on dislocation behavior of Czochralski silicon: from room temperature to elevated temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3114-3123.	2.2	3
50	Effects of n-butyl amine incorporation on the performance of perovskite light emitting diodes. <i>Nanotechnology</i> , 2019, 30, 105703.	2.6	10
51	A ternary organic electron transport layer for efficient and photostable perovskite solar cells under full spectrum illumination. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5566-5573.	10.3	35
52	Performance Improvement of Graphene/Silicon Photodetectors Using High Work Function Metal Nanoparticles with Plasma Effect. <i>Advanced Optical Materials</i> , 2018, 6, 1701243.	7.3	32
53	Wetting Behavior of Metal-Catalyzed Chemical Vapor Deposition-Grown One-Dimensional Cubic-SiC Nanostructures. <i>Langmuir</i> , 2018, 34, 5214-5224.	3.5	19
54	Design and Photovoltaic Properties of Graphene/Silicon Solar Cell. <i>Journal of Electronic Materials</i> , 2018, 47, 5025-5032.	2.2	8

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55	Al <sub>2</sub> O <sub>3</sub> -Interlayer-Enhanced Performance of All-Inorganic Silicon-Quantum-Dot Near-Infrared Light-Emitting Diodes. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 577-583.	3.0	15
56	A review of theoretical study of graphene chemical vapor deposition synthesis on metals: nucleation, growth, and the role of hydrogen and oxygen. <i>Reports on Progress in Physics</i> , 2018, 81, 036501.	20.1	43
57	Trap Assisted Bulk Silicon Photodetector with High Photoconductive Gain, Low Noise, and Fast Response by Ag Hyperdoping. <i>Advanced Optical Materials</i> , 2018, 6, 1700638.	7.3	75
58	Multicrystalline silicon crystal assisted by silicon flakes as seeds. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 202-205.	6.2	27
59	High and Fast Response of a Graphene-Silicon Photodetector Coupled with 2D Fractal Platinum Nanoparticles. <i>Advanced Optical Materials</i> , 2018, 6, 1700793.	7.3	42
60	Amine treatment induced perovskite nanowire network in perovskite solar cells: efficient surface passivation and carrier transport. <i>Nanotechnology</i> , 2018, 29, 065401.	2.6	25
61	Wetting behaviors and applications of metal-catalyzed CVD grown graphene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22437-22464.	10.3	33
62	Progress of Graphene-Silicon Heterojunction Photovoltaic Devices. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801520.	3.7	22
63	Direct CVD Growth of Graphene on Technologically Important Dielectric and Semiconducting Substrates. <i>Advanced Science</i> , 2018, 5, 1800050.	11.2	81
64	Effect of Germanium Doping on the Production and Evolution of Divacancy Complexes in Neutron Irradiated Czochralski Silicon. <i>Journal of Electronic Materials</i> , 2018, 47, 5019-5024.	2.2	2
65	Effect of Small-Angle Grain Boundary on the Mechanical Properties in Direct Silicon Bonded Wafer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800118.	1.8	1
66	Impact of Carbon Codoping on Generation and Dissociation of Boron-Oxygen Defects in Czochralski Silicon. <i>Journal of Electronic Materials</i> , 2018, 47, 5092-5098.	2.2	2
67	Effects of Iron Contamination and Hydrogen Passivation on the Electrical Properties of Oxygen Precipitates in CZ-Si. <i>Journal of Electronic Materials</i> , 2018, 47, 5039-5044.	2.2	4
68	Controllable Nitrogen Doping in Multicrystalline Silicon by Casting Under Low Cost Ambient Nitrogen. <i>Silicon</i> , 2018, 10, 1717-1722.	3.3	5
69	CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Quantum Dot-Induced Nucleation for High Performance Perovskite Light-Emitting Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22320-22328.	8.0	32
70	Graphene coupled with Pt cubic nanoparticles for high performance, air-stable graphene-silicon solar cells. <i>Nano Energy</i> , 2017, 32, 225-231.	16.0	38
71	Illumination-Induced Hole Doping for Performance Improvement of Graphene-Silicon Solar Cells with P3HT Interlayer. <i>Advanced Electronic Materials</i> , 2017, 3, 1600516.	5.1	20
72	Self-Organized Fullerene Interfacial Layer for Efficient and Low-Temperature Processed Planar Perovskite Solar Cells with High UV-Light Stability. <i>Advanced Science</i> , 2017, 4, 1700018.	11.2	47

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73	Surface plasmon enhanced luminescence from organic-inorganic hybrid perovskites. <i>Applied Physics Letters</i> , 2017, 110, 233113.	3.3	22
74	High-Performance Ultrathin Organic-Inorganic Hybrid Silicon Solar Cells via Solution-Processed Interface Modification. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21723-21729.	8.0	22
75	Characterization of silicon surface states at clean and copper contaminated condition via transient capacitance measurement. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	6
76	Enhanced Electronic Properties of SnO <sub>2</sub> via Electron Transfer from Graphene Quantum Dots for Efficient Perovskite Solar Cells. <i>ACS Nano</i> , 2017, 11, 9176-9182.	14.6	302
77	A deep-level transient spectroscopy study of gamma-ray irradiation on the passivation properties of silicon nitride layer on silicon. <i>AIP Advances</i> , 2017, 7, .	1.3	5
78	Efficient and highly light stable planar perovskite solar cells with graphene quantum dots doped PCBM electron transport layer. <i>Nano Energy</i> , 2017, 40, 345-351.	16.0	101
79	Effect of germanium doping on the formation kinetics of vacancy-dioxygen complexes in high dose neutron irradiated crystalline silicon. <i>Journal of Applied Physics</i> , 2017, 122, 095704.	2.5	4
80	Grain boundary engineering of high performance multicrystalline silicon: Control of iron contamination at the ingot edge. <i>Solar Energy Materials and Solar Cells</i> , 2017, 171, 131-135.	6.2	16
81	An industrial solution to light-induced degradation of crystalline silicon solar cells. <i>Frontiers in Energy</i> , 2017, 11, 67-71.	2.3	13
82	Carbon effect on the survival of vacancies in Czochralski silicon during rapid thermal anneal. <i>Journal of Applied Physics</i> , 2017, 122, 045705.	2.5	1
83	Determination of the Boron and Phosphorus Ionization Energies in Compensated Silicon by Temperature-Dependent Luminescence. <i>Silicon</i> , 2017, 9, 147-151.	3.3	8
84	Innentitelbild: Hierarchical NiCo <sub>2</sub> O <sub>4</sub> Hollow Microcuboids as Bifunctional Electrocatalysts for Overall Water-Splitting ( <i>Angew. Chem.</i> 21/2016). <i>Angewandte Chemie</i> , 2016, 128, 6216-6216.	2.0	2
85	Hierarchical NiCo <sub>2</sub> O <sub>4</sub> Hollow Microcuboids as Bifunctional Electrocatalysts for Overall Water-Splitting. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6290-6294.	13.8	722
86	Fulleropyrrolidinium Iodide As an Efficient Electron Transport Layer for Air-Stable Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34612-34619.	8.0	24
87	Ambient Engineering for High-Performance Organic-Inorganic Perovskite Hybrid Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21505-21511.	8.0	25
88	Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 8-14.	2.3	23
89	Graphene Quantum Dots: Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition (Part. Part. Syst. Charact. 1/2016). <i>Particle and Particle Systems Characterization</i> , 2016, 33, 2-2.	2.3	1
90	Improved performance and air stability of planar perovskite solar cells via interfacial engineering using a fullerene amine interlayer. <i>Nano Energy</i> , 2016, 28, 330-337.	16.0	74

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91	Interface coupling in graphene/fluorographene heterostructure for high-performance graphene/silicon solar cells. <i>Nano Energy</i> , 2016, 28, 12-18.	16.0	73
92	Room-temperature processed, air-stable and highly efficient graphene/silicon solar cells with an organic interlayer. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11284-11291.	10.3	16
93	Enhanced performance and light soaking stability of planar perovskite solar cells using an amine-based fullerene interfacial modifier. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18509-18515.	10.3	62
94	Hierarchical NiCo <sub>2</sub> O <sub>4</sub> Hollow Microcuboids as Bifunctional Electrocatalysts for Overall Water-Splitting. <i>Angewandte Chemie</i> , 2016, 128, 6398-6402.	2.0	536
95	Self-generation of a quasi-p-n junction for high efficiency chemical-doping-free graphene/silicon solar cells using a transition metal oxide interlayer. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10558-10565.	10.3	18
96	High Performance Nanostructured Silicon-Organic Quasi-p-n Junction Solar Cells via Low-Temperature Deposited Hole and Electron Selective Layer. <i>ACS Nano</i> , 2016, 10, 704-712.	14.6	74
97	High Efficiency Organic/Silicon-Nanowire Hybrid Solar Cells: Significance of Strong Inversion Layer. <i>Scientific Reports</i> , 2015, 5, 17371.	3.3	58
98	Ab-initio calculation study on the formation mechanism of boron-oxygen complexes in c-Si. <i>AIP Advances</i> , 2015, 5, .	1.3	6
99	On the mechanism of carrier scattering at oxide precipitates in Czochralski silicon. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2589-2594.	2.2	0
100	The enhanced efficiency of graphene-silicon solar cells by electric field doping. <i>Nanoscale</i> , 2015, 7, 7072-7077.	5.6	41
101	An 8.68% Efficiency Chemically-Doped-Free Graphene-Silicon Solar Cell Using Silver Nanowires Network Buried Contacts. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 4135-4141.	8.0	64
102	Rapid thermal processing induced vacancy-oxygen complexes in Czochralski-grown Si <sub>1-x</sub> Ge <sub>x</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7666-7672.	2.2	0
103	Photoelectric properties of reduced-graphene-oxide film and its photovoltaic application. <i>RSC Advances</i> , 2015, 5, 39630-39634.	3.6	3
104	Higher quality mono-like cast silicon with induced grain boundaries. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 121-125.	6.2	45
105	Interface engineering and efficiency improvement of monolayer graphene-silicon solar cells by inserting an ultra-thin LiF interlayer. <i>RSC Advances</i> , 2015, 5, 46480-46484.	3.6	20
106	On the low carrier lifetime edge zone in multicrystalline silicon ingots. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	7
107	Interface engineering for efficient and stable chemical-doping-free graphene-on-silicon solar cells by introducing a graphene oxide interlayer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16877-16883.	10.3	93
108	Towards thinner and low bowing silicon solar cells: form the boron and aluminum co-doped back surface field with thinner metallization film. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 456-461.	8.1	12

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109	Two-peak characteristic distribution of iron impurities at the bottom of cast quasi-single-crystalline silicon ingot. <i>Scripta Materialia</i> , 2013, 68, 655-657.	5.2	19
110	Modulation of electrical characteristics at a Ni-contaminated silicon grain boundary by engineering the metal precipitates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1828-1831.	1.8	2
111	Experimental evidence of staggered oxygen dimers as a component of boron-oxygen complexes in silicon. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	19
112	Performance of Silicon Nanowire Solar Cells with Phosphorus-Diffused Emitters. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	2.7	5
113	Understanding the effect of impurities and grain boundaries on mechanical behavior of Si via nanoindentation of (110)/(100) direct Si bonded wafers. <i>Journal of Materials Research</i> , 2012, 27, 349-355.	2.6	2
114	Efficiency improvement of silicon solar cells enabled by ZnO nanowisker array coating. <i>Nanoscale Research Letters</i> , 2012, 7, 306.	5.7	22
115	Quantitative Study of the Evolution of Oxygen and Vacancy Complexes in Czochralski Silicon. <i>Applied Physics Express</i> , 2012, 5, 021302.	2.4	6
116	Hydrogenation of interface states at a clean grain boundary in the direct silicon bonded wafer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 990-993.	1.8	2
117	Thin Czochralski silicon solar cells based on diamond wire sawing technology. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 337-342.	6.2	115
118	Seed-assisted cast quasi-single crystalline silicon for photovoltaic application: Towards high efficiency and low cost silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 95-101.	6.2	146
119	Modulation of atomic-layer-deposited Al <sub>2</sub> O <sub>3</sub> film passivation of silicon surface by rapid thermal processing. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	23
120	Effect of iron contamination on grain boundary states at a direct silicon bonded (110)/(100) interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 350-352.	2.4	4
121	Effect of germanium on the kinetics of boron-oxygen defect generation and dissociation in Czochralski silicon. <i>Applied Physics Letters</i> , 2010, 97, 162107.	3.3	12
122	Investigation of iron impurity gettering at dislocations in a SiGe/Si heterostructure. <i>Journal of Applied Physics</i> , 2009, 105, 073712.	2.5	6
123	Effect of point defects on the recombination activity of copper precipitates in p-type Czochralski silicon. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 32-35.	2.2	3
124	Nitrogen in Silicon. <i>Defect and Diffusion Forum</i> , 2004, 230-232, 199-220.	0.4	12
125	Ultrathin Aluminum Oxide Films Induced by Rapid Thermal Annealing for Effective Silicon Surface Passivation. <i>Physica Status Solidi - Rapid Research Letters</i> , 0, , 2100267.	2.4	1
126	Performance Improvement of Gallium- $\delta$ -Doped Passivated Emitter and Rear Cells by Two-Step Bias Application. <i>Solar Rrl</i> , 0, , 2100738.	5.8	3



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127	Carrier injection and annealing enhanced electrical performance in tunnel oxide passivated contact silicon solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , 2100614.	1.8	2
128	Light soaking-induced performance enhancement in a-Si:H/c-Si heterojunction solar cells. <i>Science China Materials</i> , 0, , .	6.3	1