

Deren Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

856 papers	21,238 citations	69 h-index	107 g-index
901 ext. papers	23,627 ext. citations	4.8 avg, IF	7.01 L-index

#	Paper	IF	Citations
856	Stable Cu Catalysts Supported by Two-dimensional SiO with Strong Metal-Support Interaction.. <i>Advanced Science</i> , 2022 , e2104972	13.6	3
855	Efficient Sensitized Photoluminescence from Erbium Chloride Silicate via Interparticle Energy Transfer.. <i>Materials</i> , 2022 , 15,	3.5	1
854	Deformation of 4H-SiC: The role of dopants. <i>Applied Physics Letters</i> , 2022 , 120, 052105	3.4	2
853	Anti-reflection effect of large-area ZnO nano-needle array on multi-crystalline silicon solar cells. <i>Materials Science in Semiconductor Processing</i> , 2022 , 138, 106299	4.3	1
852	Stable and wide-wavelength tunable luminescence of CsPbX ₃ nanocrystals encapsulated in metal-organic frameworks. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5550-5558	7.1	3
851	Scalable Synthesis of Pore-Rich Si/C@C Core-Shell-Structured Microspheres for Practical Long-Life Lithium-Ion Battery Anodes.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	8
850	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	6.8	2
849	Electroluminescence from light-emitting device with erbium-doped TiO ₂ film sputtered on p+-Si substrate: Enhancement effect of codoping zirconium. <i>Thin Solid Films</i> , 2022 , 748, 139160	2.2	1
848	Crystal growth and resistivity modulation of n-type phosphorus-doped cast mono-like silicon. <i>Solar Energy</i> , 2022 , 236, 294-300	6.8	1
847	Participation of nitrogen impurities in the growth of grown-in oxide precipitates in nitrogen-doped Czochralski silicon. <i>Journal of Applied Physics</i> , 2022 , 131, 155703	2.5	
846	Polarized Laser Switching with Giant Contrast in MOF-Based Mixed-Matrix Membrane.. <i>Advanced Science</i> , 2022 , e2200953	13.6	2
845	Compensation of p-type doping in Al-doped 4H-SiC. <i>Journal of Applied Physics</i> , 2022 , 131, 185703	2.5	2
844	High-responsivity graphene/hyperdoped-silicon heterostructure infrared photodetectors. <i>Optics and Laser Technology</i> , 2022 , 153, 108291	4.2	1
843	Doping-dependent nucleation of basal plane dislocations in 4H-SiC. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 334002	3	1
842	Sn-Doped BiO nanosheets for highly efficient electrochemical CO reduction toward formate production. <i>Nanoscale</i> , 2021 , 13, 19610-19616	7.7	1
841	Improved Efficiency for Silicon-Based Perovskite Light-Emitting Diodes via Interfacial Hydrophilic Modification. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101448	4.6	1
840	Elimination of Interfacial-Electrochemical-Reaction-Induced Polarization in Perovskite Single Crystals for Ultrasensitive and Stable X-Ray Detector Arrays. <i>Advanced Materials</i> , 2021 , e2103078	24	15

839	Comprehensive understanding on germanium-doping effects on oxygen precipitation in Czochralski silicon wafers with a prior rapid thermal anneal. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	2
838	Low-temperature processed Tantalum/ Niobium co-doped TiO ₂ electron transport layer for high-performance planar perovskite solar cells. <i>Nanotechnology</i> , 2021 ,	3.4	8
837	On the mechanism underlying the elimination of nitrogen-oxygen shallow thermal donors in nitrogen-doped Czochralski silicon at elevated temperatures. <i>Journal of Applied Physics</i> , 2021 , 129, 145702	2.5	2
836	Ga-Doped Intermetallic Pd ₃ Pb Nanocubes as a Highly Efficient and Durable Oxygen Reduction Reaction Electrocatalyst. <i>ChemistrySelect</i> , 2021 , 6, 3891-3896	1.8	2
835	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	7.1	4
834	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	1.5	1
833	Facile Synthesis of Pd@PtM (= Rh, Ni, Pd, Cu) Multimetallic Nanorings as Efficient Catalysts for Ethanol Oxidation Reaction. <i>Frontiers in Chemistry</i> , 2021 , 9, 683450	5	0
832	Hierarchical Carbon Shell Compositing Microscale Silicon Skeleton as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4976-4985	6.1	4
831	Narrowband Near-Infrared Photodetector Enabled by Dual Functional Internal-Filter-Induced Selective Charge Collection. <i>Advanced Optical Materials</i> , 2021 , 9, 2100288	8.1	12
830	Toward Wafer-Scale Production of 2D Transition Metal Chalcogenides. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100278	6.4	1
829	Experimental study of 3D solid-liquid interfaces and their influence on directional solidification silicon ingot. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 224, 110991	6.4	4
828	Suppress of dislocations induced by feedstocks weight in cast-mono crystalline silicon. <i>Solar Energy</i> , 2021 , 223, 125-131	6.8	2
827	Electroluminescence from metal-oxide-semiconductor devices based on erbium silicate nanocrystals and silicon nanocrystals co-embedded in silicon oxide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 20659-20667	2.1	3
826	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	2.5	2
825	Microdefect Characteristics in Cast-Mono Silicon Wafers Induced by Slurry Sawing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000258	1.6	3
824	Effect of oxygen concentration on minority carrier lifetime at the bottom of quasi-single crystalline silicon. <i>Materials Science in Semiconductor Processing</i> , 2021 , 123, 105497	4.3	
823	Optoelectronic Synaptic Devices for Neuromorphic Computing. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000099	6	42
822	All-Earth-Abundant Photothermal Silicon Platform for CO ₂ Catalysis with Nearly 100% Sunlight Harvesting Ability. <i>Solar Rrl</i> , 2021 , 5, 2000387	7.1	8

821	Two-Dimensional Silicon for (Photo)Catalysis. <i>Solar Rrl</i> , 2021 , 5, 2000392	7.1	7
820	Stabilizing Fullerene for Burn-in-Free and Stable Perovskite Solar Cells under Ultraviolet Preconditioning and Light Soaking. <i>Advanced Materials</i> , 2021 , 33, e2006910	24	22
819	An MOF-Based Luminescent Sensor Array for Pattern Recognition and Quantification of Metal Ions. <i>Advanced Optical Materials</i> , 2021 , 9, 2002180	8.1	8
818	Silicon-based inorganic-organic hybrid optoelectronic synaptic devices simulating cross-modal learning. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	4
817	CO Footprint of Thermal Versus Photothermal CO Catalysis. <i>Small</i> , 2021 , 17, e2007025	11	8
816	Sensitized electroluminescence from erbium doped silicon rich oxynitride light emitting devices. <i>Journal of Luminescence</i> , 2021 , 235, 118009	3.8	1
815	A Review on Metastable Silicon Allotropes. <i>Materials</i> , 2021 , 14,	3.5	4
814	Technoeconomically competitive four-terminal perovskite/graphene-silicon tandem solar cells with over 20% efficiency. <i>Journal of Energy Chemistry</i> , 2021 , 63, 477-477	12	0
813	Recent Progress on the Scanning Tunneling Microscopy and Spectroscopy Study of Semiconductor Heterojunctions. <i>Small</i> , 2021 , e2100655	11	1
812	Electroluminescence from the light-emitting devices with erbium-doped SrTiO ₃ films on oxidized silicon substrate. <i>Optical Materials</i> , 2021 , 119, 111402	3.3	3
811	Investigation on the light and elevated temperature induced degradation of gallium-doped Cz-Si. <i>Solar Energy</i> , 2021 , 225, 407-411	6.8	6
810	Facile Synthesis of PdCuRu Porous Nanoplates as Highly Efficient Electrocatalysts for Hydrogen Evolution Reaction in Alkaline Medium. <i>Metals</i> , 2021 , 11, 1451	2.3	2
809	Evaluation of large-scale recycled seed for cast monocrystalline silicon: Defect multiplication mechanisms and feasibility. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 230, 111266	6.4	1
808	Cesium-lead-bromide perovskites with balanced stoichiometry enabled by sodium-bromide doping for all-vacuum deposited silicon-based light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2016-2023	7.1	6
807	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	3.8	6
806	Enhanced photoluminescence of silicon quantum dots in the presence of both energy transfer enhancement and emission enhancement mechanisms assisted by the double plasmon modes of gold nanorods. <i>Nanoscale Advances</i> , 2021 , 3, 4810-4815	5.1	1
805	Numerical Simulation of a Novel Method for PVT Growth of SiC by Adding a Graphite Block. <i>Crystals</i> , 2021 , 11, 1581	2.3	0
804	Evolution from random lasing to erbium-related electroluminescence from metal-insulator-semiconductor structured light-emitting device with erbium-doped ZnO film on silicon. <i>Journal of Applied Physics</i> , 2020 , 127, 055705	2.5	1

803	Origin of Plasticity in Nanostructured Silicon. <i>Physical Review Letters</i> , 2020 , 124, 185701	7.4	7
802	Silicon-based optoelectronic synaptic devices. <i>Chinese Physics B</i> , 2020 , 29, 070703	1.2	10
801	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	1
800	Optically Stimulated Synaptic Devices Based on the Hybrid Structure of Silicon Nanomembrane and Perovskite. <i>Nano Letters</i> , 2020 , 20, 3378-3387	11.5	46
799	Strain-Induced Corrosion Kinetics at Nanoscale Are Revealed in Liquid: Enabling Control of Corrosion Dynamics of Electrocatalysis. <i>CheM</i> , 2020 , 6, 2257-2271	16.2	24
798	Seed-Assisted Growth of Cast-Mono Silicon for Photovoltaic Application: Challenges and Strategies. <i>Solar Rrl</i> , 2020 , 4, 1900486	7.1	15
797	Zero-power optoelectronic synaptic devices. <i>Nano Energy</i> , 2020 , 73, 104790	17.1	44
796	Facile synthesis of ternary PtPdCu alloy hexapods as highly efficient electrocatalysts for methanol oxidation.. <i>RSC Advances</i> , 2020 , 10, 12689-12694	3.7	6
795	Confinement effect and low-defect density-induced long lifetime Er silicate nanowire embedded in silicon oxide film. <i>Optics Express</i> , 2020 , 28, 13216-13223	3.3	2
794	Atomistic Surface Passivation of CHNHPbI Perovskite Single Crystals for Highly Sensitive Coplanar-Structure X-Ray Detectors. <i>Research</i> , 2020 , 2020, 5958243	7.8	26
793	Perovskite-Enhanced Silicon-Nanocrystal Optoelectronic Synaptic Devices for the Simulation of Biased and Correlated Random-Walk Learning. <i>Research</i> , 2020 , 2020, 7538450	7.8	4
792	Effects of co-doping nitrogen and germanium on dislocation gliding in Czochralski silicon: Implication for improving mechanical strength. <i>Journal of Applied Physics</i> , 2020 , 128, 235105	2.5	3
791	The role of O ₂ in CdSeTe thin film deposition and CdSeTe/CdTe solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 214, 110595	6.4	9
790	Local epitaxial growth of Au-Rh core-shell star-shaped decahedra: A case for studying electronic and ensemble effects in hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118255	21.8	23
789	Hydrogen passivation of iron-acceptor pairs in boron and gallium co-doped crystalline silicon. <i>Applied Physics Express</i> , 2020 , 13, 011002	2.4	0
788	Promoting Effect of SiOH on the Decomposition of Electrolytes in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 6365-6373	9.6	7
787	Unexpected Kirkendall effect in twinned icosahedral nanocrystals driven by strain gradient. <i>Nano Research</i> , 2020 , 13, 2641-2649	10	9
786	Improving CdTe-Based Thin-Film Solar Cell Efficiency with the Oxygenated CdSe Layer Prepared by Sputtering Process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000560	1.6	1

- 785 Simple Near-Infrared Electron Acceptors for Efficient Photovoltaics and Sensitive Photodetectors. *ACS Applied Materials & Interfaces*, **2020**, 12, 39515-39523 9.5 24
- 784 Flash Solid-Solid Synthesis of Silicon Oxide Nanorods. *Small*, **2020**, 16, e2001435 11 1
- 783 Ink Engineering of Inkjet Printing Perovskite. *ACS Applied Materials & Interfaces*, **2020**, 12, 39082-39091 9.1 33
- 782 Oxygen precipitation in Ge-doped Czochralski-silicon at 900 °C investigated by in situ high energy x-ray diffraction. *AIP Advances*, **2020**, 10, 105324 1.5
- 781 Au-Doped intermetallic Pd₃Pb wavy nanowires as highly efficient electrocatalysts toward the oxygen reduction reaction. *CrystEngComm*, **2020**, 22, 6478-6484 3.3 1
- 780 The preparation and characterization of uniform nanoporous structure on glass. *Royal Society Open Science*, **2020**, 7, 192029 3.3 3
- 779 A novel three-dimensional architecture of Co₂Te nanowires towards high-rate lithium and sodium storage. *Journal of Alloys and Compounds*, **2020**, 815, 152281 5.7 9
- 778 All-vacuum deposited and thermally stable perovskite solar cells with F4-TCNQ/CuPc hole transport layer. *Nanotechnology*, **2020**, 31, 065401 3.4 4
- 777 Effects of Antimony- and Tin-Doping on the Mechanical Properties of Czochralski Silicon: Revealing the Role of Electrical Activity of Antimony. *Silicon*, **2020**, 12, 1433-1439 2.4 2
- 776 Influence of temperature gradient at interface on defect multiplication in seed-assisted multicrystalline silicon. *Solar Energy Materials and Solar Cells*, **2020**, 211, 110520 6.4 3
- 775 NIR Light Driven Terahertz Wave Modulator with a Large Modulation Depth Based on a Silicon-PEDOT:PSS-Perovskite Hybrid System. *Advanced Materials Technologies*, **2020**, 5, 1901090 6.8 5
- 774 Tuning Surface Structure of PdPb/Pt Pb Nanocrystals for Boosting the Methanol Oxidation Reaction. *Advanced Science*, **2019**, 6, 1902249 13.6 26
- 773 Building a Bridge from Papermaking to Solar Fuels. *Angewandte Chemie*, **2019**, 131, 14992-14996 3.6 2
- 772 Ultra-small Rh nanoparticles supported on WO₃ nanowires as efficient catalysts for visible-light-enhanced hydrogen evolution from ammonia borane. *Nanoscale Advances*, **2019**, 1, 3941-3947 5.1 15
- 771 Plasmon-Coupled Förster Resonance Energy Transfer between Silicon Quantum Dots. *Journal of Physical Chemistry C*, **2019**, 123, 23604-23609 3.8 8
- 770 Designing superior solid electrolyte interfaces on silicon anodes for high-performance lithium-ion batteries. *Nanoscale*, **2019**, 11, 19086-19104 7.7 53
- 769 Controlling dislocation gliding and propagation in quasi-single crystalline silicon by using α -oriented seeds. *Solar Energy Materials and Solar Cells*, **2019**, 193, 214-218 6.4 12
- 768 Intermetallic Pd₃Pb square nanoplates as highly efficient electrocatalysts for oxygen reduction reaction. *CrystEngComm*, **2019**, 21, 290-296 3.3 17

767	Designing functional $\sqrt{3}$ grain boundaries at seed junctions for high-quality cast quasi-single crystalline silicon. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109985	6.4	11
766	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy-Band Engineering. <i>Advanced Materials</i> , 2019 , 31, e1902543	24	46
765	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	3	7
764	Developing near-infrared quantum-dot light-emitting diodes to mimic synaptic plasticity. <i>Science China Materials</i> , 2019 , 62, 1470-1478	7.1	15
763	Effects of nitrogen doping on vacancy-oxygen complexes in neutron irradiated Czochralski silicon. <i>Materials Science in Semiconductor Processing</i> , 2019 , 98, 65-69	4.3	5
762	Enhanced electrochemical properties of Cu ₃ Si-embedded three-dimensional porous Si synthesized by one-pot synthesis. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 341-347	5.7	11
761	Recombination activity of sub-grain boundaries and dislocation arrays in quasi-single crystalline silicon. <i>Applied Physics Express</i> , 2019 , 12, 051012	2.4	3
760	Building a Bridge from Papermaking to Solar Fuels. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14850-14854	16.4	13
759	Intermetallic PdPb ultrathin nanoplate-constructed flowers with low-coordinated edge sites boost oxygen reduction performance. <i>Nanoscale</i> , 2019 , 11, 17301-17307	7.7	8
758	Synthesis of Co/SnO ₂ core-shell nanowire arrays and their electrochemical performance as anodes of lithium-ion batteries. <i>Ionics</i> , 2019 , 25, 4651-4658	2.7	4
757	Towards green antisolvent for efficient CH ₃ NH ₃ PbBr ₃ perovskite light emitting diodes: A comparison of toluene, chlorobenzene, and ethyl acetate. <i>Applied Physics Letters</i> , 2019 , 115, 033101	3.4	9
756	Litchi-structural core-shell Si@C for high-performance lithium-ion battery anodes. <i>Ionics</i> , 2019 , 25, 5809-5818	5.8	5
755	Silicon nanocrystals: unfading silicon materials for optoelectronics. <i>Materials Science and Engineering Reports</i> , 2019 , 138, 85-117	30.9	41
754	Single Crystal Perovskite Microplate for High-Order Multiphoton Excitation. <i>Small Methods</i> , 2019 , 3, 1900396	12.6	9
753	A review on graphene-silicon Schottky junction interface. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 63-70	5.7	13
752	Simulation to confirm the existence of distinct low-temperature regions in a Si melt using an insulating plate under the crucible bottom for the noncontact crucible method. <i>Journal of Crystal Growth</i> , 2019 , 524, 125160	1.6	2
751	Solvation effect in precursor solution enables over 16% efficiency in thick 2D perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19423-19429	13	19
750	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	2.1	2

- 749 Synaptic silicon-nanocrystal phototransistors for neuromorphic computing. *Nano Energy*, **2019**, 63, 103859.1 51
- 748 Correlation of efficient luminescence with crystal structures of γ -Er₂Si₂O₇ and β -Er₂Si₂O₇ in Er-doped silicon oxide films. *Journal of Materials Science*, **2019**, 54, 12668-12675 4.3 3
- 747 An Interlayer with Strong Pb-Cl Bond Delivers Ultraviolet-Filter-Free, Efficient, and Photostable Perovskite Solar Cells. *IScience*, **2019**, 21, 217-227 6.1 28
- 746 Investigation on the impact of hydrogen on the passivation of silicon surface states in clean and copper contaminated conditions. *AIP Advances*, **2019**, 9, 105102 1.5 5
- 745 Defect control based on constitutional supercooling effect in cast multicrystalline silicon: Boron-indium co-doping. *Solar Energy Materials and Solar Cells*, **2019**, 203, 110189 6.4 3
- 744 Electroluminescence from light-emitting devices based on erbium-doped ZnO/n-Si heterostructures: Enhancement effect of fluorine co-doping. *Optics Express*, **2019**, 27, 30919-30930 3.3 9
- 743 Control of the formation and luminescent properties of polymorphic erbium silicates on silicon. *Optical Materials Express*, **2019**, 9, 1716 2.6 12
- 742 Efficient sensitized photoluminescence of Er silicate in silicon oxide films embedded with amorphous silicon clusters, part I: fabrication. *Optical Materials Express*, **2019**, 9, 4329 2.6 3
- 741 Visible-blind short-wavelength infrared photodetector with high responsivity based on hyperdoped silicon. *Photonics Research*, **2019**, 7, 351 6 19
- 740 Nitrogen Impurity in Crystalline Silicon **2019**, 1-32
- 739 Growth of Crystalline Silicon for Solar Cells: Czochralski Si **2019**, 129-174
- 738 Nitrogen Impurity in Crystalline Silicon **2019**, 463-494 0
- 737 Efficient sensitized photoluminescence of Er silicate in silicon oxide films embedded with amorphous silicon clusters, part II: photoluminescence. *Optical Materials Express*, **2019**, 9, 4339 2.6
- 736 CsPbBr quantum dots assisted crystallization of solution-processed perovskite films with preferential orientation for high performance perovskite solar cells. *Nanotechnology*, **2019**, 31, 085401 3.4 8
- 735 Coupling PtNi Ultrathin Nanowires with MXenes for Boosting Electrocatalytic Hydrogen Evolution in Both Acidic and Alkaline Solutions. *Small*, **2019**, 15, e1805474 11 63
- 734 Ion-templated fabrication of Pt-Cu alloy octahedra with controlled compositions for electrochemical detection of H₂O₂. *Journal of Alloys and Compounds*, **2019**, 788, 1334-1340 5.7 13
- 733 Vacuum co-deposited CH₃NH₃PbI₃ films by controlling vapor pressure for efficient planar perovskite solar cells. *Solar Energy*, **2019**, 181, 339-344 6.8 16
- 732 Interface engineering of C₆₀/fluorine doped tin oxide on the photovoltaic performance of perovskite solar cells using the physical vapor deposition technique. *Journal Physics D: Applied Physics*, **2019**, 52, 225104 3 11

731	Structure and conductivity enhanced treble-shelled porous silicon as an anode for high-performance lithium-ion batteries.. <i>RSC Advances</i> , 2019 , 9, 35392-35400	3.7	4
730	Kinetic suppression of boron-oxygen complexes in p-type Czochralski silicon by tin doping. <i>Applied Physics Express</i> , 2019 , 12, 011005	2.4	
729	Light-soaking enhanced passivation of Al ₂ O ₃ on crystalline silicon surface. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 191, 350-355	6.4	4
728	Unidirectional light scattering by up/down Janus dimers composed of gold nanospheres and silicon nanorods. <i>Optics Communications</i> , 2019 , 435, 362-366	2	5
727	Revisiting the effects of carbon-doping at 10 ¹⁷ cm ⁻³ 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	2.1	3
726	Effects of n-butyl amine incorporation on the performance of perovskite light emitting diodes. <i>Nanotechnology</i> , 2019 , 30, 105703	3.4	9
725	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. <i>Nature Communications</i> , 2018 , 9, 1011	17.4	64
724	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	13	31
723	Performance Improvement of Graphene/Silicon Photodetectors Using High Work Function Metal Nanoparticles with Plasma Effect. <i>Advanced Optical Materials</i> , 2018 , 6, 1701243	8.1	16
722	Carbon dioxide as a green carbon source for the synthesis of carbon cages encapsulating porous silicon as high performance lithium-ion battery anodes. <i>Nanoscale</i> , 2018 , 10, 5626-5633	7.7	27
721	Wetting Behavior of Metal-Catalyzed Chemical Vapor Deposition-Grown One-Dimensional Cubic-SiC Nanostructures. <i>Langmuir</i> , 2018 , 34, 5214-5224	4	9
720	Design and Photovoltaic Properties of Graphene/Silicon Solar Cell. <i>Journal of Electronic Materials</i> , 2018 , 47, 5025-5032	1.9	4
719	Al ₂ O ₃ -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	2.9	12
718	Effects of oxygen related thermal donors on the performance of silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 17-21	6.4	11
717	Light-Emitting Diodes Based on Colloidal Silicon Quantum Dots with Octyl and Phenylpropyl Ligands. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5959-5966	9.5	51
716	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	8.1	49
715	Growth and ripening of oxygen precipitation in neutron-irradiated Czochralski silicon. <i>Materials Science in Semiconductor Processing</i> , 2018 , 74, 369-374	4.3	7
714	Multicrystalline silicon assisted by polycrystalline silicon slabs as seeds. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 312-318	6.4	12

713	Multimetallic AuPd@Pd@Pt core-interlayer-shell icosahedral electrocatalysts for highly efficient oxygen reduction reaction. <i>Science Bulletin</i> , 2018 , 63, 494-501	10.6	26
712	Defect-Related Electroluminescence in the 1.2–1.7 eV Range from Boron-Implanted Silicon at Room Temperature. <i>Journal of Electronic Materials</i> , 2018 , 47, 4970-4974	1.9	
711	Detailed study of SiOxNy:H/Si interface properties for high quality surface passivation of crystalline silicon. <i>Superlattices and Microstructures</i> , 2018 , 113, 13-19	2.8	3
710	Multicrystalline silicon crystal assisted by silicon flakes as seeds. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 202-205	6.4	25
709	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	1.9	2
708	Comparison on mechanical properties of heavily phosphorus- and arsenic-doped Czochralski silicon wafers. <i>AIP Advances</i> , 2018 , 8, 045301	1.5	5
707	Light-emitting diodes based on colloidal silicon quantum dots. <i>Journal of Semiconductors</i> , 2018 , 39, 061003	1.9	13
706	Fabrication of stabilized and dispersive copper nanowires ink. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 14989-14994	2.1	1
705	An Innovative Light Trapping Structure Fabrication Method on Diamond-Wire-Sawing Multi-Crystalline Silicon Wafers. <i>ChemistrySelect</i> , 2018 , 3, 7561-7564	1.8	2
704	Wet-chemical synthesized MCMB@Si@C microspheres for high-performance lithium-ion battery anodes. <i>Chemical Communications</i> , 2018 , 54, 9466-9469	5.8	19
703	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	1.9	2
702	Controllable Nitrogen Doping in Multicrystalline Silicon by Casting Under Low Cost Ambient Nitrogen. <i>Silicon</i> , 2018 , 10, 1717-1722	2.4	4
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72	Synthesis of ultrafine lanthanum hydroxide nanorods by a simple hydrothermal process. <i>Materials Letters</i> , 2004 , 58, 1180-1182	3.3	59
71	Effects of complexing agent on CdS thin films prepared by chemical bath deposition. <i>Materials Letters</i> , 2004 , 58, 5-9	3.3	71
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67	Effect of Rapid Thermal Process on Oxygen Precipitation in Heavily Boron-Doped Czochralski Silicon Wafer. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 7290-7291	1.4	4
66	Bipolar Structure in Thermally Treated Czochralski Silicon Wafer. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 1129-1132	1.4	2

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63	Oxygen precipitation kinetics of Czochralski silicon preannealed under high pressure. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 1041-1045	2.8	
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54	Effect of nitrogen doping on the minority carrier lifetime in Czochralski silicon. <i>Microelectronic Engineering</i> , 2003 , 66, 373-378	2.5	8
53	Crystallization and disappearance of defects of the annealed silicon nanowires. <i>Microelectronic Engineering</i> , 2003 , 66, 65-69	2.5	21
52	Effect of rapid thermal process on oxygen precipitation and denuded zone in nitrogen-doped silicon wafers. <i>Microelectronic Engineering</i> , 2003 , 69, 97-104	2.5	18
51	Oxygen precipitation in Czochralski silicon annealed at 450°C under a high pressure of 1 GPa. <i>Physica B: Condensed Matter</i> , 2003 , 327, 60-64	2.8	2
50	Transmission electron microscopy investigation of oxygen precipitation in Czochralski silicon annealed under high pressure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 102, 84-87	3.1	6
49	Texturization of monocrystalline silicon with tribasic sodium phosphate. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 255-263	6.4	67
48	Effect of heat treatment on the optical and electrical properties of nitrogen-doped silicon samples. <i>Microelectronic Engineering</i> , 2003 , 66, 297-304	2.5	2

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