

Kunji Chen

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149
papers

2,327
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164
ext. papers

2,756
ext. citations

6.1
avg, IF

4.81
L-index

#	Paper	IF	Citations
149	Visible photoluminescence in crystallized amorphous Si:H/SiNx:H multiquantum-well structures. <i>Applied Physics Letters</i> , 1992 , 61, 2069-2071	3.4	115
148	Ultrafast Solar-Blind Ultraviolet Detection by Inorganic Perovskite CsPbX Quantum Dots Radial Junction Architecture. <i>Advanced Materials</i> , 2017 , 29, 1700400	24	98
147	Highly Connected Silicon-Copper Alloy Mixture Nanotubes as High-Rate and Durable Anode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 524-531	15.6	92
146	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. <i>Science Advances</i> , 2020 , 6, eaba6173	14.3	66
145	a-SiNx:H-based ultra-low power resistive random access memory with tunable Si dangling bond conduction paths. <i>Scientific Reports</i> , 2015 , 5, 15762	4.9	59
144	Observation of the size-dependent blueshifted electroluminescence from nanocrystalline Si fabricated by KrF excimer laser annealing of hydrogenated amorphous silicon/amorphous-SiNx:H superlattices. <i>Applied Physics Letters</i> , 1998 , 72, 722-724	3.4	56
143	Resistive switching mechanism in silicon highly rich SiOx (x . <i>Applied Physics Letters</i> , 2013 , 102, 042103	3.4	53
142	Full color light emission from amorphous SiCx:H with organic-inorganic structures. <i>Journal of Applied Physics</i> , 2000 , 88, 6408-6412	2.5	51
141	Rapid, stable and self-powered perovskite detectors via a fast chemical vapor deposition process. <i>RSC Advances</i> , 2017 , 7, 18224-18230	3.7	50
140	Photoluminescence characteristics from amorphous SiC thin films with various structures deposited at low temperature. <i>Solid State Communications</i> , 2005 , 133, 565-568	1.6	48
139	Phosphorus Doping in Si Nanocrystals/SiO2 multilayers and Light Emission with Wavelength compatible for Optical Telecommunication. <i>Scientific Reports</i> , 2016 , 6, 22888	4.9	45
138	Strong green-yellow electroluminescence from oxidized amorphous silicon nitride light-emitting devices. <i>Applied Physics Letters</i> , 2007 , 90, 093515	3.4	42
137	Cadmium-doped flexible perovskite solar cells with a low-cost and low-temperature-processed CdS electron transport layer. <i>RSC Advances</i> , 2017 , 7, 19457-19463	3.7	41
136	Size-dependent electroluminescence from Si quantum dots embedded in amorphous SiC matrix. <i>Journal of Applied Physics</i> , 2011 , 110, 064322	2.5	41
135	Engineering island-chain silicon nanowires via a droplet mediated Plateau-Rayleigh transformation. <i>Nature Communications</i> , 2016 , 7, 12836	17.4	39
134	Structural and electronic properties of Si nanocrystals embedded in amorphous SiC matrix. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3963-3966	5.7	39
133	Oxygen induced strong green light emission from low-temperature grown amorphous silicon nitride films. <i>Applied Physics Letters</i> , 2006 , 89, 221120	3.4	35

132	Omnidirectional and effective salt-rejecting absorber with rationally designed nanoarchitecture for efficient and durable solar vapour generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22976-22986	13	35
131	High-conductive nanocrystalline silicon with phosphorous and boron doping. <i>Applied Surface Science</i> , 2010 , 257, 1337-1341	6.7	34
130	Enhanced electroluminescence efficiency of oxidized amorphous silicon nitride light-emitting devices by modulating Si/N ratio. <i>Applied Physics Letters</i> , 2007 , 91, 1111104	3.4	31
129	Nanocrystalline Si pathway induced unipolar resistive switching behavior from annealed Si-rich SiN _x /SiN _y multilayers. <i>Journal of Applied Physics</i> , 2014 , 116, 123705	2.5	30
128	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. <i>Nano Letters</i> , 2017 , 17, 7638-7646	11.5	30
127	Light Trapping and Down-Shifting Effect of Periodically Nanopatterned Si-Quantum-Dot-Based Structures for Enhanced Photovoltaic Properties. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 459-464	3.1	30
126	Role of hydrogen surface coverage during anodic plasma deposition of hydrogenated nanocrystalline germanium. <i>Journal of Applied Physics</i> , 1998 , 84, 3386-3391	2.5	29
125	Green electro- and photoluminescence from nanocrystalline Si film prepared by continuous wave Ar ⁺ laser annealing of heavily phosphorus doped hydrogenated amorphous silicon film. <i>Applied Physics Letters</i> , 1998 , 73, 105-107	3.4	28
124	Networking retinomorphoc sensor with memristive crossbar for brain-inspired visual perception. <i>National Science Review</i> , 2021 , 8, nwaa172	10.8	28
123	A bottom-up synthetic hierarchical buffer structure of copper silicon nanowire hybrids as ultra-stable and high-rate lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7877-7886	13	27
122	In-Plane Self-Turning and Twin Dynamics Renders Large Stretchability to Mono-Like Zigzag Silicon Nanowire Springs. <i>Advanced Functional Materials</i> , 2016 , 26, 5352-5359	15.6	27
121	Highly cross-linked Cu/a-Si core-shell nanowires for ultra-long cycle life and high rate lithium batteries. <i>Nanoscale</i> , 2016 , 8, 2613-9	7.7	27
120	In-plane epitaxial growth of silicon nanowires and junction formation on Si(100) substrates. <i>Nano Letters</i> , 2014 , 14, 6469-74	11.5	27
119	Direct-Current and Alternating-Current Driving Si Quantum Dots-Based Light Emitting Device. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 206-211	3.8	25
118	Contribution of multiple emitting centers to luminescence from Si/SiO ₂ multilayers with step by step thermal annealing. <i>Solid State Communications</i> , 2004 , 131, 701-705	1.6	25
117	All-Inorganic Perovskite Quantum Dots/p-Si Heterojunction Light-Emitting Diodes under DC and AC Driving Modes. <i>Advanced Optical Materials</i> , 2018 , 6, 1700897	8.1	25
116	High performance transparent in-plane silicon nanowire Fin-TFTs via a robust nano-droplet-scanning crystallization dynamics. <i>Nanoscale</i> , 2017 , 9, 10350-10357	7.7	24
115	Rational Energy Band Alignment and Au Nanoparticles in Surface Plasmon Enhanced Si-Based Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018 , 6, 1800693	8.1	24

114	Formation and charging effect of Si nanocrystals in a-SiN _x /a-Si/a-SiN _x structures. <i>Journal of Applied Physics</i> , 2004 , 95, 640-645	2.5	24
113	Monolithic Integration of Silicon Nanowire Networks as a Soft Wafer for Highly Stretchable and Transparent Electronics. <i>Nano Letters</i> , 2019 , 19, 6235-6243	11.5	23
112	Strong energy-transfer-induced enhancement of Er ³⁺ luminescence in In ₂ O ₃ nanocrystal codoped silica films. <i>Applied Physics Letters</i> , 2013 , 103, 181906	3.4	23
111	Enhanced photovoltaic property by forming p-i-n structures containing Si quantum dots/SiC multilayers. <i>Nanoscale Research Letters</i> , 2014 , 9, 634	5	23
110	Planar Growth, Integration, and Applications of Semiconducting Nanowires. <i>Advanced Materials</i> , 2020 , 32, e1903945	24	21
109	Enhancement of solar vapor generation by a 3D hierarchical heat trapping structure. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26496-26503	13	21
108	The Effect of Decomposed Pbl on Microscopic Mechanisms of Scattering in CHNHPbl Films. <i>Nanoscale Research Letters</i> , 2019 , 14, 208	5	20
107	Enhanced broadband spectral response and energy conversion efficiency for hetero-junction solar cells with graded-sized Si quantum dots/SiC multilayers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 120617-120672 ²⁰	7.1	20
106	Solar-driven all-solid-state lithium-air batteries operating at extreme low temperatures. <i>Energy and Environmental Science</i> , 2020 , 13, 1205-1211	35.4	19
105	A comparative study on electrical transport properties of thin films of Ge ₁ Sb ₂ Te ₄ and Ge ₂ Sb ₂ Te ₅ phase-change materials. <i>Journal of Applied Physics</i> , 2011 , 110, 013703	2.5	19
104	Hydrogen-induced recovery of photoluminescence from annealed a-Si:H/SiO ₂ multilayers. <i>Journal of Applied Physics</i> , 2005 , 98, 033532	2.5	19
103	An electronic synaptic device based on HfO ₂ /TiO ₂ bilayer structure memristor with self-compliance and deep-RESET characteristics. <i>Nanotechnology</i> , 2018 , 29, 415205	3.4	18
102	Enhanced up-conversion luminescence from NaYF ₄ :Yb,Er nanocrystals by Gd ³⁺ ions induced phase transformation and plasmonic Au nanosphere arrays. <i>RSC Advances</i> , 2016 , 6, 102869-102874	3.7	17
101	Higher than 60% internal quantum efficiency of photoluminescence from amorphous silicon oxynitride thin films at wavelength of 470 nm. <i>Applied Physics Letters</i> , 2014 , 105, 011113	3.4	17
100	Operating principles of in-plane silicon nanowires at simple step-edges. <i>Nanoscale</i> , 2015 , 7, 5197-202	7.7	17
99	Reduced photo-instability of luminescence spectrum of core-shell CdSe/CdS nanocrystals. <i>Journal of Materials Science</i> , 2000 , 35, 1375-1378	4.3	17
98	Heteroepitaxial Writing of Silicon-on-Sapphire Nanowires. <i>Nano Letters</i> , 2016 , 16, 7317-7324	11.5	15
97	Improved Efficiency of Silicon Nanoholes/Gold Nanoparticles/Organic Hybrid Solar Cells via Localized Surface Plasmon Resonance. <i>Nanoscale Research Letters</i> , 2016 , 11, 160	5	15

96	3D Sidewall Integration of Ultrahigh-Density Silicon Nanowires for Stacked Channel Electronics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800627	6.4	14
95	Luminescence and resonant energy transfer of two sizes of CdTe quantum dots embedded in gelatin films. <i>Journal of Materials Science</i> , 2007 , 42, 9696-9699	4.3	14
94	Size dependence of optical eigenmodes in photonic quantum dots prepared by conformal deposition method. <i>Applied Physics Letters</i> , 2007 , 90, 174101	3.4	14
93	Characteristics of multilevel storage and switching dynamics in resistive switching cell of Al ₂ O ₃ /HfO ₂ /Al ₂ O ₃ sandwich structure. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 025102	3	14
92	Nanoscale quantification of charge injection and transportation process in Si-nanocrystal based sandwiched structure. <i>Nanoscale</i> , 2013 , 5, 9971-7	7.7	13
91	Strong blue photoluminescence from as-fabricated amorphous-Si:HSiO ₂ multilayers. <i>Applied Physics Letters</i> , 2004 , 85, 516-518	3.4	13
90	Highly Sensitive Ammonia Gas Detection at Room Temperature by Integratable Silicon Nanowire Field-Effect Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14377-14384	9.5	13
89	Nanodroplet Hydrodynamic Transformation of Uniform Amorphous Bilayer into Highly Modulated Ge/Si Island-Chains. <i>Nano Letters</i> , 2018 , 18, 6931-6940	11.5	13
88	Fabrication of Anti-reflecting Si Nano-structures with Low Aspect Ratio by Nano-sphere Lithography Technique. <i>Nano-Micro Letters</i> , 2013 , 5, 18-25	19.5	12
87	High Performance Si Nanowire TFTs With Ultrahigh on/off Current Ratio and Steep Subthreshold Swing. <i>IEEE Electron Device Letters</i> , 2020 , 41, 46-49	4.4	12
86	The Change of Electronic Transport Behaviors by P and B Doping in Nano-Crystalline Silicon Films with Very High Conductivities. <i>Nanomaterials</i> , 2016 , 6,	5.4	12
85	Dynamics of high quantum efficiency photoluminescence from N-Si-O bonding states in oxygenated amorphous silicon nitride films. <i>Applied Physics Letters</i> , 2016 , 108, 111103	3.4	12
84	Cylindrical Line-Feeding Growth of Free-Standing Silicon Nanohelices as Elastic Springs and Resonators. <i>Nano Letters</i> , 2020 , 20, 5072-5080	11.5	11
83	Formation of high conductive nano-crystalline silicon embedded in amorphous silicon-carbide films with large optical band gap. <i>AIP Advances</i> , 2016 , 6, 105107	1.5	11
82	Light Harvesting and Enhanced Performance of Si Quantum Dot/Si Nanowire Heterojunction Solar Cells. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 38-43	3.1	11
81	Low Power Consumption Red Light-Emitting Diodes Based on Inorganic Perovskite Quantum Dots under an Alternating Current Driving Mode. <i>Nanomaterials</i> , 2018 , 8,	5.4	11
80	The role of N-Si-O bonding configurations in tunable photoluminescence of oxygenated amorphous silicon nitride films. <i>Applied Physics Letters</i> , 2015 , 106, 231103	3.4	10
79	Enhanced carrier mobility in Si nano-crystals via nanoscale phosphorus doping. <i>Applied Surface Science</i> , 2017 , 425, 492-496	6.7	10

78	Annealing effect on optical and electronic properties of silicon rich amorphous silicon-carbide films. <i>Frontiers of Optoelectronics</i> , 2012 , 5, 107-111	2.8	10
77	The evolution investigation of photoluminescence from a-Si:H/SiO ₂ to nc-Si/SiO ₂ multilayers. <i>Journal of Applied Physics</i> , 2004 , 95, 2448-2451	2.5	10
76	Transition of Carrier Transport Behaviors with Temperature in Phosphorus-Doped Si Nanocrystals/SiO ₂ Multilayers. <i>Nanoscale Research Letters</i> , 2016 , 11, 346	5	10
75	Unprecedented Uniform 3D Growth Integration of 10-Layer Stacked Si Nanowires on Tightly Confined Sidewall Grooves. <i>Nano Letters</i> , 2020 , 20, 7489-7497	11.5	9
74	Meandering growth of in-plane silicon nanowire springs. <i>Applied Physics Letters</i> , 2019 , 114, 233103	3.4	8
73	Controllable photoluminescence enhancement of CdTe/CdS quantum dots thin films incorporation with Au nanoparticles. <i>Nanoscale Research Letters</i> , 2015 , 10, 128	5	8
72	Carrier transport of doped nanocrystalline Si formed by annealing of amorphous Si films at various temperatures. <i>Solid State Communications</i> , 2011 , 151, 697-700	1.6	8
71	Strong blue light emission from a-SiN _x O films via localized surface plasmon enhancement. <i>Applied Physics Letters</i> , 2012 , 101, 013106	3.4	8
70	Facile 3D integration of Si nanowires on Bosch-etched sidewalls for stacked channel transistors. <i>Nanoscale</i> , 2020 , 12, 2787-2792	7.7	8
69	Simulation and Experimental Study on Anti-reflection Characteristics of Nano-patterned Si Structures for Si Quantum Dot-Based Light-Emitting Devices. <i>Nanoscale Research Letters</i> , 2016 , 11, 317	5	8
68	Doping effect in Si nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 233002	3	7
67	Energy transfer process between Eu ³⁺ and wide-band-gap SnO ₂ nanocrystals in silica films studied by photoluminescence excitation and time-resolved photoluminescence techniques. <i>Science Bulletin</i> , 2014 , 59, 1285-1290		7
66	Biomimetic Radial Tandem Junction Photodetector with Natural RGB Color Discrimination Capability. <i>Advanced Optical Materials</i> , 2017 , 5, 1700390	8.1	7
65	Charge transfer of single laser crystallized intrinsic and phosphorus-doped Si-nanocrystals visualized by Kelvin probe force microscopy. <i>Journal of Applied Physics</i> , 2014 , 116, 134309	2.5	7
64	A new luminescent defect state in low temperature grown amorphous SiN _x O _y thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		7
63	Doping-Free Titanium Nitride Carrier Selective Contacts for Efficient Organic-Inorganic Hybrid Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9208-9215	6.1	7
62	Improved power efficiency in phosphorus doped n-a-SiN _x O _y /p-Si heterojunction light emitting diode. <i>Applied Physics Letters</i> , 2017 , 110, 081109	3.4	6
61	On-chip silicon-based active photonic molecules by complete photonic bandgap light confinement. <i>Applied Physics Letters</i> , 2011 , 99, 034105	3.4	6

60	Dynamical process of KrF pulsed excimer laser crystallization of ultrathin amorphous silicon films to form Si nano-dots. <i>Journal of Applied Physics</i> , 2012 , 111, 094320	2.5	6
59	Enhanced Broadband Plasmonic Absorbers with Tunable Light Management on Flexible Tapered Metasurface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56178-56185	9.5	6
58	Design, Shaping, and Assembly of Free-Standing Silicon Nanoprobes. <i>Nano Letters</i> , 2021 , 21, 2773-2779	11.5	6
57	The Role of N _B O Defect States in Optical Gain from an a-SiN _x O _y /SiO ₂ Waveguide and in Light Emission from an n-a-SiN _x O _y /p-Si Heterojunction LED. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700750	1.6	5
56	Improved photovoltaic properties of Si quantum dots/SiC multilayers-based heterojunction solar cells by reducing tunneling barrier thickness. <i>Frontiers of Optoelectronics</i> , 2013 , 6, 228-233	2.8	5
55	Interface confinement and local structure in nc-Si/a-SiN _x multilayers (nc=nanocrystalline, a=amorphous). <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 9857-9865	1.8	5
54	Superfast Growth Dynamics of High-Quality Silicon Nanowires on Polymer Films via Self-Selected Laser-Droplet-Heating. <i>Nano Letters</i> , 2021 , 21, 569-576	11.5	5
53	Enhanced Near-Infrared Perovskite Light-Emitting Devices by Introducing Choline Chloride Layer. <i>Advanced Optical Materials</i> , 2021 , 9, 2100636	8.1	5
52	Plasmon-enhanced upconversion luminescence in pyrochlore phase Yb Er TiO thin film. <i>Nanotechnology</i> , 2019 , 30, 085701	3.4	5
51	Comparative study on P and B doped nano-crystalline Si multilayers. <i>Applied Surface Science</i> , 2020 , 529, 146971	6.7	4
50	The role of N _x Bi ₂ O _y bonding configuration in acquiring strong blue to red photoluminescence from amorphous SiN _x O _y film. <i>Canadian Journal of Physics</i> , 2014 , 92, 602-605	1.1	4
49	Conductive Atomic Force Microscopy (C-AFM) observation of conducting nanofilaments formation in GeSbTe phase change materials. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 663-667	2.6	4
48	Electronic properties and charge storage effect of amorphous SiN passivated nanocrystalline silicon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015 , 33, 041203	1.3	4
47	Response to Comment on Visible photoluminescence in crystallized amorphous Si:H/SiN _x :H multi-quantum-well structures [Appl. Phys. Lett. 61, 2069 (1992)]. <i>Applied Physics Letters</i> , 1995 , 66, 249-250	2.4	4
46	Flexible and Robust 3D a-SiGe Radial Junction Near-Infrared Photodetectors for Rapid Sphygmoc Signal Monitoring. <i>Advanced Functional Materials</i> , 2107040	15.6	4
45	HfO ₂ /TiO _x bilayer structure memristor with linear conductance tuning for high density memory and neuromorphic computing. <i>Journal of Applied Physics</i> , 2020 , 128, 184902	2.5	4
44	Achieving a Record Open-Circuit Voltage for Organic/Si Hybrid Solar Cells by Improving Junction Quality. <i>Solar Rrl</i> , 2021 , 5, 2100255	7.1	4
43	Tungsten-Coated Silicon Nanopillars as Ultra-Broadband and Thermally Robust Solar Harvesting Materials. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2430-2437	5.6	3

42	Ostwald ripening in segregated SixN/SiyN multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1878-1884	1.6	3
41	Observation of Coulomb Blockade Effect in Silicon Nanocrystallites at room Temperature. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 467, 367		3
40	Conformal coverage for two-dimensional arrays of microcavities with quasi-three dimensional confinement by distributed Bragg reflectors. <i>Applied Surface Science</i> , 2007 , 253, 4254-4259	6.7	3
39	Artificial synapse arrays based on SiOx/TiOx memristive crossbar with high uniformity for neuromorphic computing. <i>Applied Physics Letters</i> , 2022 , 120, 043101	3.4	3
38	Low power consumption light emitting device containing TiO:Er thin film prepared by sol-gel method. <i>Optics Express</i> , 2020 , 28, 6064-6070	3.3	3
37	Air-processed stable near-infrared Si-based perovskite light-emitting devices with efficiency exceeding 7.5%. <i>Journal of Materials Chemistry C</i> ,	7.1	3
36	Tunable Si Dangling Bond Pathway Induced Forming-Free Hydrogenated Silicon Carbide Resistive Switching Memory Device. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8451-8458	6.4	3
35	Microstructure and carrier-transport behaviors of nanocrystalline silicon thin films annealed at various temperatures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1675-1679	1.6	3
34	High efficiency organic-Si hybrid solar cells with a one-dimensional CdS interlayer. <i>Nanoscale</i> , 2021 , 13, 4206-4212	7.7	3
33	High-Efficiency Air-Processed Si-Based Perovskite Light-Emitting Devices via PMMA-TBAPF 6 Co-Doping. <i>Advanced Optical Materials</i> , 2102848	8.1	3
32	Improved device performance of Si-based heterojunction solar cells by using phosphorus doped Si nanocrystals embedded in SiC host matrix. <i>AIP Advances</i> , 2019 , 9, 025213	1.5	2
31	Charge storage and light emission properties of three dimension controllable Si nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 721-727		2
30	Formation of high quality nano-crystallized Ge films on quartz substrates at moderate temperature. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 051201	1.3	2
29	THE SIZE CONTROL OF UNIFORM NANOCRYSTALLINE Si GRAINS BY CONSTRAINED GROWTH MODEL. <i>International Journal of Modern Physics B</i> , 2005 , 19, 2751-2756	1.1	2
28	Microstructures of Luminescent nc-Si by Excimer Laser Annealing of a-Si:H. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 452, 803		2
27	Highly Stretchable High-Performance Silicon Nanowire Field Effect Transistors Integrated on Elastomer Substrates.. <i>Advanced Science</i> , 2022 , e2105623	13.6	2
26	Terrace-confined guided growth of high-density ultrathin silicon nanowire array for large area electronics. <i>Nanotechnology</i> , 2021 ,	3.4	2
25	Luminescence Mechanism in Amorphous Silicon Oxynitride Films: Band Tail Model or N-Si-O Bond Defects Model. <i>Frontiers in Physics</i> , 2019 , 7,	3.9	1

24	Near-infrared light absorption enhancement in Ge nanostructures prepared by nanosphere lithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 041601	1.3	1
23	FULL-COLOR PHOTO- AND ELECTRO-LUMINESCENCE FROM HYDROGENATED AMORPHOUS SILICON CARBIDE FILMS PREPARED BY USING ORGANIC SOURCE. <i>International Journal of Modern Physics B</i> , 2002 , 16, 1057-1061	1.1	1
22	Self-Assembly of Semiconductor CdSe Nanocrystals by Bifunctional Linker Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 177-180		1
21	Innovative all-silicon based a-SiN _x :O/c-Si heterostructure solar-blind photodetector with both high responsivity and fast response speed. <i>APL Photonics</i> , 2022 , 7, 026102	5.2	1
20	Designable Integration of Silicide Nanowire Springs as Ultra-Compact and Stretchable Electronic Interconnections. <i>Small</i> , 2021 , e2104690	11	1
19	Bismuth-catalyzed n-type doping and growth evolution of planar silicon nanowires. <i>Applied Physics Letters</i> , 2020 , 117, 243103	3.4	1
18	Enhanced Electroluminescence From Sn/Er Co-Doped SiO ₂ Thin Film by Controlling Sn Content. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 1359-1362	2.2	0
17	Multiple channels to enhance near-infrared emission from SiO-SnO:Er films by Ba ion doping. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23711-23717	3.6	0
16	Precise morphology control of in-plane silicon nanowires via a simple plasma pre-treatment. <i>Applied Surface Science</i> , 2022 , 153435	6.7	0
15	Si-based photonic quantum dots with the self-similar distributed Bragg reflectors. <i>Thin Solid Films</i> , 2011 , 519, 3295-3300	2.2	
14	Low turn-on and high efficient oxidized amorphous silicon nitride light-emitting devices induced by high density amorphous silicon nanoparticles. <i>Thin Solid Films</i> , 2010 , 518, 3938-3941	2.2	
13	Photonic quantum dots based on Bragg reflectors grown by conformal deposition on patterned substrates. <i>Applied Surface Science</i> , 2008 , 254, 4211-4215	6.7	
12	Enhancement of Photoluminescence from Organic and Inorganic Surface Passivated ZnS Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 667, 1		
11	Hyper-Rayleigh Scattering and Fluorescence of CdS-ZnS Nanoparticle Composites. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 150		
10	Patterned Structures of Silicon Nanocrystals Prepared by Pulsed Laser Interference Crystallization of Ultra-Thin A-Si:H Single-Layer. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 426		
9	The Enhancement of Band Edge Emission from ZnS/Zn(OH) ₂ Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 642, 3181		
8	AFM and HREM Observation of the Pulse Laser Interference Crystallized aBi:H/a-SiN _x :H Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 2511		
7	Structure and Photoluminescence of Hydrogenated Amorphous Carbon Films Produced by Using Aromatic Hydrocarbon Source. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 593, 353		

- 6 Silicon Nitride Binary-Phase Optical Elements with Both Functions of Splitting and Focussing. *Physica Status Solidi A*, **1995**, 147, K111-K114
- 5 Raman and Ft-Ir Study on Structure and Its Stability of Hydrogenated Amorphous Germanium-Nitrogen Alloys. *Materials Research Society Symposia Proceedings*, **1996**, 446, 419
- 4 KrF Laser-Induced Nanometer Si Crystallites Formation and Tem Observation. *Materials Research Society Symposia Proceedings*, **1995**, 397, 375
- 3 Corrections to High Performance Si Nanowire TFTs With Ultrahigh On/Off Current Ratio and Steep Subthreshold Swing[Jan 20 46-49]. *IEEE Electron Device Letters*, **2020**, 41, 1604-1604 4.4
- 2 Unexpected phosphorus doping routine of planar silicon nanowires for integrating CMOS logics. *Nanoscale*, **2021**, 13, 15031-15037 7.7
- 1 Dual Management of Electrons and Photons to Get High-Performance Light Emitting Devices Based on Si Nanowires and Si Quantum Dots with Al₂O₃-Ag Hybrid Nanostructures. *Particle and Particle Systems Characterization*, **2018**, 35, 1800289 3.1