

Kunji Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4784926/publications.pdf>

Version: 2024-02-01

162
papers

3,226
citations

136740

32
h-index

205818

48
g-index

164
all docs

164
docs citations

164
times ranked

3293
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible and Robust 3D a-SiGe Radial Junction Near-Infrared Photodetectors for Rapid Sphygmoc Signal Monitoring. <i>Advanced Functional Materials</i> , 2022, 32, 2107040.	7.8	17
2	Designable Integration of Silicide Nanowire Springs as Ultra-Compact and Stretchable Electronic Interconnections. <i>Small</i> , 2022, 18, e2104690.	5.2	8
3	Air-processed stable near-infrared Si-based perovskite light-emitting devices with efficiency exceeding 7.5%. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1276-1281.	2.7	8
4	Highly Stretchable High-Performance Silicon Nanowire Field Effect Transistors Integrated on Elastomer Substrates. <i>Advanced Science</i> , 2022, 9, e2105623.	5.6	17
5	Artificial synapse arrays based on SiO _x /TiO _x memristive crossbar with high uniformity for neuromorphic computing. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
6	Artificial Neurons and Synapses Based on Al/a-SiN _x O _y :H/P+-Si Device with Tunable Resistive Switching from Threshold to Memory. <i>Nanomaterials</i> , 2022, 12, 311.	1.9	7
7	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, .	3.0	5
8	High-Efficiency Air-Processed Si-Based Perovskite Light-Emitting Devices via PMMA-TBAPF ₆ Co-Doping. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	9
9	Precise morphology control of in-plane silicon nanowires via a simple plasma pre-treatment. <i>Applied Surface Science</i> , 2022, 593, 153435.	3.1	4
10	Artificial Synapse Consisted of TiSbTe/SiC _x :H Memristor with Ultra-high Uniformity for Neuromorphic Computing. <i>Nanomaterials</i> , 2022, 12, 2110.	1.9	2
11	Silicon-based spectrally selective emitters with good high-temperature stability on stepped metasurfaces. <i>Nanoscale</i> , 2022, 14, 10816-10822.	2.8	7
12	Improved resonant energy transfer and light emission from SnO ₂ nanocrystals and Er ³⁺ embedded in silica films via Yb ³⁺ co-doping. <i>Optical Materials Express</i> , 2022, 12, 3101.	1.6	1
13	3D NAND Flash Memory Based on Double-Layer NC-Si Floating Gate with High Density of Multilevel Storage. <i>Nanomaterials</i> , 2022, 12, 2459.	1.9	3
14	Networking retinomorphic sensor with memristive crossbar for brain-inspired visual perception. <i>National Science Review</i> , 2021, 8, nwaa172.	4.6	77
15	High efficiency organic-Si hybrid solar cells with a one-dimensional CdS interlayer. <i>Nanoscale</i> , 2021, 13, 4206-4212.	2.8	8
16	Unexpected phosphorus doping routine of planar silicon nanowires for integrating CMOS logics. <i>Nanoscale</i> , 2021, 13, 15031-15037.	2.8	2
17	Ab Initio Design, Shaping, and Assembly of Free-Standing Silicon Nanoprobes. <i>Nano Letters</i> , 2021, 21, 2773-2779.	4.5	15
18	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.	4.0	42

#	ARTICLE	IF	CITATIONS
19	Terrace-confined guided growth of high-density ultrathin silicon nanowire array for large area electronics. <i>Nanotechnology</i> , 2021, 32, 265602.	1.3	4
20	Enhanced Near-Infrared Perovskite Light-Emitting Devices by Introducing Choline Chloride Layer. <i>Advanced Optical Materials</i> , 2021, 9, 2100636.	3.6	12
21	Achieving a Record Open-Circuit Voltage for Organic/Si Hybrid Solar Cells by Improving Junction Quality. <i>Solar Rrl</i> , 2021, 5, 2100255.	3.1	11
22	Tunable Narrowband Silicon-Based Thermal Emitter with Excellent High-Temperature Stability Fabricated by Lithography-Free Methods. <i>Nanomaterials</i> , 2021, 11, 1814.	1.9	7
23	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.	4.5	9
24	Multiple channels to enhance near-infrared emission from $\text{SiO}_2/\text{SnO}_2:\text{Er}^{3+}$ films by Ba^{2+} ion doping. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23711-23717.	1.3	6
25	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.	1.3	6
26	Resistive Switching Characteristics of $\text{HfO}_x/\text{Al}_2\text{O}_3$ Nano-multilayers Structure Memristor Fabricated by Atomic Layer Deposition. , 2021, , .		1
27	Planar Growth, Integration, and Applications of Semiconducting Nanowires. <i>Advanced Materials</i> , 2020, 32, e1903945.	11.1	42
28	Facile 3D integration of Si nanowires on Bosch-etched sidewalls for stacked channel transistors. <i>Nanoscale</i> , 2020, 12, 2787-2792.	2.8	10
29	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.	2.2	17
30	Unprecedented Uniform 3D Growth Integration of 10-Layer Stacked Si Nanowires on Tightly Confined Sidewall Grooves. <i>Nano Letters</i> , 2020, 20, 7489-7497.	4.5	17
31	Enhanced Broadband Plasmonic Absorbers with Tunable Light Management on Flexible Tapered Metasurface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56178-56185.	4.0	11
32	$\text{HfO}_2/\text{TiO}_x$ bilayer structure memristor with linear conductance tuning for high density memory and neuromorphic computing. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	12
33	Doping-Free Titanium Nitride Carrier Selective Contacts for Efficient Organic-Inorganic Hybrid Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9208-9215.	2.5	12
34	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.	2.1	6
35	Corrections to "High Performance Si Nanowire TFTs With Ultrahigh On/Off Current Ratio and Steep Subthreshold Swing" [Jan 20 46-49]. <i>IEEE Electron Device Letters</i> , 2020, 41, 1604-1604.	2.2	0
36	Cylindrical Line-Feeding Growth of Free-Standing Silicon Nanohelices as Elastic Springs and Resonators. <i>Nano Letters</i> , 2020, 20, 5072-5080.	4.5	16

#	ARTICLE	IF	CITATIONS
37	Comparative study on P and B doped nano-crystalline Si multilayers. Applied Surface Science, 2020, 529, 146971.	3.1	13
38	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. Science Advances, 2020, 6, eaba6173.	4.7	202
39	Solar-driven all-solid-state lithium-air batteries operating at extreme low temperatures. Energy and Environmental Science, 2020, 13, 1205-1211.	15.6	48
40	Tungsten-Coated Silicon Nanopillars as Ultra-Broadband and Thermally Robust Solar Harvesting Materials. ACS Applied Nano Materials, 2020, 3, 2430-2437.	2.4	9
41	Bismuth-catalyzed n-type doping and growth evolution of planar silicon nanowires. Applied Physics Letters, 2020, 117, .	1.5	3
42	Low power consumption light emitting device containing $\text{TiO}_2/\text{Er}^{3+}$ thin film prepared by sol-gel method. Optics Express, 2020, 28, 6064.	1.7	10
43	Monolithic Integration of Silicon Nanowire Networks as a Soft Wafer for Highly Stretchable and Transparent Electronics. Nano Letters, 2019, 19, 6235-6243.	4.5	32
44	The Effect of Decomposed PbI_2 on Microscopic Mechanisms of Scattering in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Films. Nanoscale Research Letters, 2019, 14, 208.	3.1	33
45	Luminescence Mechanism in Amorphous Silicon Oxynitride Films: Band Tail Model or N-Si-O Bond Defects Model. Frontiers in Physics, 2019, 7, .	1.0	7
46	Meandering growth of in-plane silicon nanowire springs. Applied Physics Letters, 2019, 114, .	1.5	11
47	3D Sidewall Integration of Ultrahigh-Density Silicon Nanowires for Stacked Channel Electronics. Advanced Electronic Materials, 2019, 5, 1800627.	2.6	17
48	Improved device performance of Si-based heterojunction solar cells by using phosphorus doped Si nanocrystals embedded in SiC host matrix. AIP Advances, 2019, 9, .	0.6	5
49	Enhancement of solar vapor generation by a 3D hierarchical heat trapping structure. Journal of Materials Chemistry A, 2019, 7, 26496-26503.	5.2	28
50	Plasmon-enhanced upconversion luminescence in pyrochlore phase $\text{Yb}_x\text{Er}_{2-x}\text{Ti}_2\text{O}_7$ thin film. Nanotechnology, 2019, 30, 085701.	1.3	8
51	The Role of Si^{2+} Defect States in Optical Gain from an $\text{Si}_x\text{O}_y/\text{SiO}_2$ Waveguide and in Light Emission from an $\text{Si}_x\text{O}_y/\text{Si}$ Heterojunction LED. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700750.	0.8	5
52	A bottom-up synthetic hierarchical buffer structure of copper silicon nanowire hybrids as ultra-stable and high-rate lithium-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 7877-7886.	5.2	44
53	Characteristics of multilevel storage and switching dynamics in resistive switching cell of $\text{Al}_2\text{O}_3/\text{HfO}_2/\text{Al}_2\text{O}_3$ sandwich structure. Journal Physics D: Applied Physics, 2018, 51, 025102.	1.3	26
54	All-Inorganic Perovskite Quantum Dots/ Si Heterojunction Light-Emitting Diodes under DC and AC Driving Modes. Advanced Optical Materials, 2018, 6, 1700897.	3.6	39

#	ARTICLE	IF	CITATIONS
55	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.	5.2	48
56	Dual Management of Electrons and Photons to Get High-Performance Light Emitting Devices Based on Si Nanowires and Si Quantum Dots with Al ₂ O ₃ -Ag Hybrid Nanostructures. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800289.	1.2	0
57	Low Power Consumption Red Light-Emitting Diodes Based on Inorganic Perovskite Quantum Dots under an Alternating Current Driving Mode. <i>Nanomaterials</i> , 2018, 8, 974.	1.9	17
58	Nanodroplet Hydrodynamic Transformation of Uniform Amorphous Bilayer into Highly Modulated Ge/Si Island-Chains. <i>Nano Letters</i> , 2018, 18, 6931-6940.	4.5	16
59	An electronic synaptic device based on HfO ₂ /TiO _x bilayer structure memristor with self-compliance and deep-RESET characteristics. <i>Nanotechnology</i> , 2018, 29, 415205.	1.3	36
60	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.	3.6	32
61	Doping effect in Si nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 233002.	1.3	12
62	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, .	0.6	4
63	Improved power efficiency in phosphorus doped n-a-SiNxOy/p-Si heterojunction light emitting diode. <i>Applied Physics Letters</i> , 2017, 110, 081109.	1.5	10
64	High performance transparent in-plane silicon nanowire Fin-TFTs via a robust nano-droplet-scanning crystallization dynamics. <i>Nanoscale</i> , 2017, 9, 10350-10357.	2.8	33
65	Quantum Dots: Ultrafast Solar-Blind Ultraviolet Detection by Inorganic Perovskite CsPbX ₃ Quantum Dots Radial Junction Architecture (<i>Adv. Mater.</i> 23/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	1
66	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.	1.7	48
67	Rapid, stable and self-powered perovskite detectors via a fast chemical vapor deposition process. <i>RSC Advances</i> , 2017, 7, 18224-18230.	1.7	57
68	Ultrafast Solar-Blind Ultraviolet Detection by Inorganic Perovskite CsPbX ₃ Quantum Dots Radial Junction Architecture. <i>Advanced Materials</i> , 2017, 29, 1700400.	11.1	129
69	Biomimetic Radial Tandem Junction Photodetector with Natural RGB Color Discrimination Capability. <i>Advanced Optical Materials</i> , 2017, 5, 1700390.	3.6	15
70	Enhanced carrier mobility in Si nano-crystals via nanoscale phosphorus doping. <i>Applied Surface Science</i> , 2017, 425, 492-496.	3.1	19
71	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. <i>Nano Letters</i> , 2017, 17, 7638-7646.	4.5	41
72	CuO nanowires-based Radial hetero-junction thin film silicon solar cells with a high open-circuit voltage. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
73	Transition of Carrier Transport Behaviors with Temperature in Phosphorus-Doped Si Nanocrystals/SiO ₂ Multilayers. <i>Nanoscale Research Letters</i> , 2016, 11, 346.	3.1	19
74	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, 233.	1.9	14
75	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.	0.8	6
76	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, .	1.5	15
77	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.	3.1	8
78	Phosphorus Doping in Si Nanocrystals/SiO ₂ Multilayers and Light Emission with Wavelength Compatible for Optical Telecommunication. <i>Scientific Reports</i> , 2016, 6, 22888.	1.6	52
79	Improved Efficiency of Silicon Nanoholes/Gold Nanoparticles/Organic Hybrid Solar Cells via Localized Surface Plasmon Resonance. <i>Nanoscale Research Letters</i> , 2016, 11, 160.	3.1	17
80	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.	1.2	13
81	Ostwald ripening in segregated Si _x N/Si _y N multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1878-1884.	0.8	4
82	Heteroepitaxial Writing of Silicon-on-Sapphire Nanowires. <i>Nano Letters</i> , 2016, 16, 7317-7324.	4.5	18
83	Engineering island-chain silicon nanowires via a droplet mediated Plateau-Rayleigh transformation. <i>Nature Communications</i> , 2016, 7, 12836.	5.8	49
84	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.	1.7	17
85	Formation of high conductive nano-crystalline silicon embedded in amorphous silicon-carbide films with large optical band gap. <i>AIP Advances</i> , 2016, 6, .	0.6	13
86	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.	7.8	34
87	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.	7.8	110
88	Highly cross-linked Cu/a-Si core-shell nanowires for ultra-long cycle life and high rate lithium batteries. <i>Nanoscale</i> , 2016, 8, 2613-2619.	2.8	33
89	a-Si _x N _{1-x} :H-based ultra-low power resistive random access memory with tunable Si dangling bond conduction paths. <i>Scientific Reports</i> , 2015, 5, 15762.	1.6	69
90	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, .	0.6	5

#	ARTICLE	IF	CITATIONS
91	Operating principles of in-plane silicon nanowires at simple step-edges. <i>Nanoscale</i> , 2015, 7, 5197-5202.	2.8	22
92	Controllable photoluminescence enhancement of CdTe/CdS quantum dots thin films incorporation with Au nanoparticles. <i>Nanoscale Research Letters</i> , 2015, 10, 128.	3.1	9
93	The role of N-Si-O bonding configurations in tunable photoluminescence of oxygenated amorphous silicon nitride films. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	11
94	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, 12061-12067.	2.7	24
95	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.	1.9	30
96	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.	1.1	8
97	Light Trapping and Downshifting Effect of Periodically Nanopatterned SiQuantumDotBased Structures for Enhanced Photovoltaic Properties. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 459-464.	1.2	32
98	Enhanced photovoltaic property by forming p-i-n structures containing Si quantum dots/SiC multilayers. <i>Nanoscale Research Letters</i> , 2014, 9, 634.	3.1	23
99	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.	1.1	31
100	In-Plane Epitaxial Growth of Silicon Nanowires and Junction Formation on Si(100) Substrates. <i>Nano Letters</i> , 2014, 14, 6469-6474.	4.5	31
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, .	1.5	20
102	The role of N _x Si _x 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.	0.4	6
103	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.	1.7	11
104	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.	1.1	4
105	Nanoscale quantification of charge injection and transportation process in Si-nanocrystal based sandwiched structure. <i>Nanoscale</i> , 2013, 5, 9971.	2.8	16
106	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.	1.5	27
107	Resistive switching mechanism in silicon highly rich SiO _x (x<math>\leq 0.75</math>) films based on silicon dangling bonds percolation model. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	62
108	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.	1.9	6

#	ARTICLE	IF	CITATIONS
109	Fabrication of Anti-reflecting Si Nano-structures with Low Aspect Ratio by Nano-sphere Lithography Technique. Nano-Micro Letters, 2013, 5, 18-25.	14.4	13
110	Formation of high quality nano-crystallized Ge films on quartz substrates at moderate temperature. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 051201.	0.6	2
111	Strong blue light emission from a-SiNx:O films via localized surface plasmon enhancement. Applied Physics Letters, 2012, 101, .	1.5	9
112	Dynamical process of KrF pulsed excimer laser crystallization of ultrathin amorphous silicon films to form Si nano-dots. Journal of Applied Physics, 2012, 111, 094320.	1.1	6
113	Annealing effect on optical and electronic properties of silicon rich amorphous silicon-carbide films. Frontiers of Optoelectronics, 2012, 5, 107-111.	1.9	12
114	Size-dependent electroluminescence from Si quantum dots embedded in amorphous SiC matrix. Journal of Applied Physics, 2011, 110, .	1.1	45
115	Structural and electronic properties of Si nanocrystals embedded in amorphous SiC matrix. Journal of Alloys and Compounds, 2011, 509, 3963-3966.	2.8	43
116	Carrier transport of doped nanocrystalline Si formed by annealing of amorphous Si films at various temperatures. Solid State Communications, 2011, 151, 697-700.	0.9	8
117	Si-based photonic quantum dots with the self-similar distributed Bragg reflectors. Thin Solid Films, 2011, 519, 3295-3300.	0.8	0
118	On-chip silicon-based active photonic molecules by complete photonic bandgap light confinement. Applied Physics Letters, 2011, 99, 034105.	1.5	9
119	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. Journal of Applied Physics, 2011, 110, 013703.	1.1	21
120	On-chip mode-control in active silicon-based photonic molecule by complete photon confinement. , 2011, , .		0
121	Low turn-on and high efficient oxidized amorphous silicon nitride light-emitting devices induced by high density amorphous silicon nanoparticles. Thin Solid Films, 2010, 518, 3938-3941.	0.8	0
122	High-conductive nanocrystalline silicon with phosphorous and boron doping. Applied Surface Science, 2010, 257, 1337-1341.	3.1	37
123	A new luminescent defect state in low temperature grown amorphous SiN _x O _y thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 828-831.	0.8	9
124	Charge storage and light emission properties of three dimension controllable Si nanostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 721-727.	0.8	4
125	Photonic quantum dots based on Bragg reflectors grown by conformal deposition on patterned substrates. Applied Surface Science, 2008, 254, 4211-4215.	3.1	0
126	Silicon based photonic quantum dots. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
127	Intense green light emission from low temperature grown SiNO complex system. , 2008, , .		0
128	Strong green-yellow electroluminescence from oxidized amorphous silicon nitride light-emitting devices. Applied Physics Letters, 2007, 90, 093515.	1.5	44
129	Size dependence of optical eigenmodes in photonic quantum dots prepared by conformal deposition method. Applied Physics Letters, 2007, 90, 174101.	1.5	16
130	Enhanced electroluminescence efficiency of oxidized amorphous silicon nitride light-emitting devices by modulating Si ³ N ratio. Applied Physics Letters, 2007, 91, .	1.5	32
131	Conformal coverage for two-dimensional arrays of microcavities with quasi-three dimensional confinement by distributed Bragg reflectors. Applied Surface Science, 2007, 253, 4254-4259.	3.1	4
132	Luminescence and resonant energy transfer of two sizes of CdTe quantum dots embedded in gelatin films. Journal of Materials Science, 2007, 42, 9696-9699.	1.7	15
133	Oxygen induced strong green light emission from low-temperature grown amorphous silicon nitride films. Applied Physics Letters, 2006, 89, 221120.	1.5	40
134	Photoluminescence characteristics from amorphous SiC thin films with various structures deposited at low temperature. Solid State Communications, 2005, 133, 565-568.	0.9	54
135	Hydrogen-induced recovery of photoluminescence from annealed a-Si:H/SiO ₂ multilayers. Journal of Applied Physics, 2005, 98, 033532.	1.1	21
136	THE SIZE CONTROL OF UNIFORM NANOCRYSTALLINE Si GRAINS BY CONSTRAINED GROWTH MODEL. International Journal of Modern Physics B, 2005, 19, 2751-2756.	1.0	7
137	Strong blue photoluminescence from as-fabricated amorphous-Si:H/SiO ₂ multilayers. Applied Physics Letters, 2004, 85, 516-518.	1.5	14
138	The evolution investigation of photoluminescence from a-Si:H/SiO ₂ to nc-Si/SiO ₂ multilayers. Journal of Applied Physics, 2004, 95, 2448-2451.	1.1	11
139	Contribution of multiple emitting centers to luminescence from Si/SiO ₂ multilayers with step by step thermal annealing. Solid State Communications, 2004, 131, 701-705.	0.9	26
140	Formation and charging effect of Si nanocrystals in a-SiN _x /a-Si/a-SiN _x structures. Journal of Applied Physics, 2004, 95, 640-645.	1.1	25
141	FULL-COLOR PHOTO- AND ELECTRO-LUMINESCENCE FROM HYDROGENATED AMORPHOUS SILICON CARBIDE FILMS PREPARED BY USING ORGANIC SOURCE. International Journal of Modern Physics B, 2002, 16, 1057-1061.	1.0	1
142	Hyper-Rayleigh Scattering and Fluorescence of CdS-ZnS Nanoparticle Composites. Materials Research Society Symposia Proceedings, 2002, 737, 150.	0.1	0
143	Patterned Structures of Silicon Nanocrystals Prepared by Pulsed Laser Interference Crystallization of Ultra-Thin A-Si:H Single-Layer. Materials Research Society Symposia Proceedings, 2002, 737, 426.	0.1	0
144	Interface confinement and local structure in nc-Si/a-SiN _x multilayers (nc=nanocrystalline,) Tj ETQq0 0 0 rgBT /Overlock 10 If 50 62 Td	0.7	5

#	ARTICLE	IF	CITATIONS
145	Enhancement of Photoluminescence from Organic and Inorganic Surface Passivated ZnS Quantum Dots. Materials Research Society Symposia Proceedings, 2001, 667, 1.	0.1	1
146	The Enhancement of Band Edge Emission from ZnS/Zn(OH) ₂ Quantum Dots. Materials Research Society Symposia Proceedings, 2000, 642, 3181.	0.1	0
147	AFM and HREM Observation of the Pulse Laser Interference Crystallized a-Si:H/a-SiN _x :H Multilayers. Materials Research Society Symposia Proceedings, 2000, 609, 2511.	0.1	0
148	Reduced photo-instability of luminescence spectrum of core-shell CdSe/CdS nanocrystals. Journal of Materials Science, 2000, 35, 1375-1378.	1.7	17
149	Full color light emission from amorphous SiC _x :H with organic/inorganic structures. Journal of Applied Physics, 2000, 88, 6408-6412.	1.1	54
150	Self-Assembly of Semiconductor CdSe Nanocrystals by Bifunctional Linker Molecules. Molecular Crystals and Liquid Crystals, 1999, 337, 177-180.	0.3	1
151	Structure and Photoluminescence of Hydrogenated Amorphous Carbon Films Produced by Using Aromatic Hydrocarbon Source. Materials Research Society Symposia Proceedings, 1999, 593, 353.	0.1	0
152	Role of hydrogen surface coverage during anodic plasma deposition of hydrogenated nanocrystalline germanium. Journal of Applied Physics, 1998, 84, 3386-3391.	1.1	30
153	Observation of the size-dependent blueshifted electroluminescence from nanocrystalline Si fabricated by KrF excimer laser annealing of hydrogenated amorphous silicon/amorphous-SiN _x :H superlattices. Applied Physics Letters, 1998, 72, 722-724.	1.5	59
154	Green electro- and photoluminescence from nanocrystalline Si film prepared by continuous wave Ar ⁺ laser annealing of heavily phosphorus doped hydrogenated amorphous silicon film. Applied Physics Letters, 1998, 73, 105-107.	1.5	29
155	Observation of Coulomb Blockade Effect in Silicon Nanocrystallites at room Temperature. Materials Research Society Symposia Proceedings, 1997, 467, 367.	0.1	3
156	Raman and FTIR Study on Structure and Its Stability of Hydrogenated Amorphous Germanium-Nitrogen Alloys. Materials Research Society Symposia Proceedings, 1996, 446, 419.	0.1	0
157	Microstructures of Luminescent nc-Si by Excimer Laser Annealing of a-Si:H. Materials Research Society Symposia Proceedings, 1996, 452, 803.	0.1	2
158	KrF Laser-Induced Nanometer Si Crystallites Formation and Tem Observation. Materials Research Society Symposia Proceedings, 1995, 397, 375.	0.1	0
159	Response to "Comment on "Visible photoluminescence in crystallized amorphous Si:H/SiN _x :H multi-quantum well structures" [Appl. Phys. Lett. 61, 2069 (1992)]. Applied Physics Letters, 1995, 66, 249-250.		4
160	Visible photoluminescence in crystallized amorphous Si:H/SiN _x :H multi-quantum well structures. Applied Physics Letters, 1992, 61, 2069-2071.	1.5	128
161	Microstructures and visible photoluminescence of excimer laser crystallized a-Si:H/a-SiN _x :H multi-quantum wells. , 0, , .		0
162	Charging and Coulomb blockade effects in nanocrystalline Si dots embedded in SiO ₂ matrix. , 0, , .		0