

Dongke Li

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	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.	7.3	39
2	The phosphorus and boron co-doping behaviors at nanoscale in Si nanocrystals/SiO ₂ multilayers. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	24
3	Synthesis and characterization of Cu ₂ S nanoparticles by diethylenetriamine-assisted hydrothermal method. <i>Optik</i> , 2015, 126, 4971-4973.	2.9	21
4	Effects of Al concentrations on the microstructure and mechanical properties of Ti-Al-N films deposited by RF-ICPIS enhanced magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2014, 609, 239-243.	5.5	20
5	Time-resolved and temperature-dependent photoluminescence study on phosphorus doped Si quantum dots/SiO ₂ multilayers with ultra-small dot sizes. <i>Optical Materials Express</i> , 2016, 6, 3233.	3.0	20
6	Transition of Carrier Transport Behaviors with Temperature in Phosphorus-Doped Si Nanocrystals/SiO ₂ Multilayers. <i>Nanoscale Research Letters</i> , 2016, 11, 346.	5.7	19
7	Enhanced carrier mobility in Si nano-crystals via nanoscale phosphorus doping. <i>Applied Surface Science</i> , 2017, 425, 492-496.	6.1	19
8	Modulation of surface states by phosphorus to improve the optical properties of ultra-small Si nanocrystals. <i>Nanotechnology</i> , 2017, 28, 475704.	2.6	19
9	A review: wafer bonding of Si-based semiconductors. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 323001.	2.8	19
10	Enhanced up-conversion red light emission from rare earth titanium oxide nanocrystals with pyrochlore phase. <i>Optical Materials Express</i> , 2018, 8, 2643.	3.0	13
11	Comparative study on P and B doped nano-crystalline Si multilayers. <i>Applied Surface Science</i> , 2020, 529, 146971.	6.1	13
12	Doping effect in Si nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 233002.	2.8	12
13	Low power consumption light emitting device containing TiO ₂ :Er ³⁺ thin film prepared by sol-gel method. <i>Optics Express</i> , 2020, 28, 6064.	3.4	10
14	Enhanced subband light emission from Si quantum dots/SiO ₂ multilayers via phosphorus and boron co-doping. <i>Optics Express</i> , 2022, 30, 12308.	3.4	10
15	Size-Dependent and Enhanced Photovoltaic Performance of Solar Cells Based on Si Quantum Dots. <i>Energies</i> , 2020, 13, 4845.	3.1	9
16	High-Efficiency Air-Processed Si-Based Perovskite Light-Emitting Devices via PMMA-TBAPF ₆ Co-Doping. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	9
17	Size-dependent phosphorus doping effect in nanocrystalline-Si-based multilayers. <i>Applied Surface Science</i> , 2018, 461, 66-71.	6.1	8
18	Plasmon-enhanced upconversion luminescence in pyrochlore phase Yb _x Er _{2-x} Ti ₂ O ₇ thin film. <i>Nanotechnology</i> , 2019, 30, 085701.	2.6	8

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19	Multiple channels to enhance near-infrared emission from SiO ₂ –SnO ₂ :Er ³⁺ films by Ba ²⁺ ion doping. Physical Chemistry Chemical Physics, 2021, 23, 23711-23717.	2.8	6
20	Enhanced Electroluminescence From Sn/Er Co-Doped SiO ₂ Thin Film by Controlling Sn Content. IEEE Photonics Technology Letters, 2021, 33, 1359-1362.	2.5	6
21	Si nanocrystals-based multilayers for luminescent and photovoltaic device applications. Journal of Semiconductors, 2018, 39, 061007.	3.7	5
22	Improved device performance of Si-based heterojunction solar cells by using phosphorus doped Si nanocrystals embedded in SiC host matrix. AIP Advances, 2019, 9, .	1.3	5
23	Stabilizing electric switching of ferromagnetism in In ₂ O ₃ :Cu thin films. Journal of Alloys and Compounds, 2015, 650, 912-917.	5.5	3
24	Effects of RF inductively coupled plasma ion source on the microstructure and mechanical properties of Ti–Al–N nanocrystalline films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	3
25	Nanoscale Characterization of Active Doping Concentration in Boron–Doped Individual Si Nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800531.	1.8	3
26	Improved resonant energy transfer and light emission from SnO ₂ nanocrystals and Er ³⁺ embedded in silica films via Yb ³⁺ co-doping. Optical Materials Express, 2022, 12, 3101.	3.0	1
27	Doping effect in Si Nanocrystals/SiO ₂ multilayers. Journal of Physics: Conference Series, 2017, 864, 012012.	0.4	0
28	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. Particle and Particle Systems Characterization, 2018, 35, 1800289.	2.3	0
29	Variation on the Microstructure and Mechanical Properties of Ti-Al-N Films Induced by RF-ICP Ion Source Enhanced Reactive Nitrogen Plasma Atmosphere. Nanoscale Research Letters, 2020, 15, 119.	5.7	0