Shudong Yu

List of Publications by Year in descending order

39 papers	626 citations	623734 14 h-index	580821 25 g-index
41 all docs	41 docs citations	41 times ranked	498 citing authors

#	Article	IF	Citations
1	Enhancement of Luminous Efficiency and Uniformity of CCT for Quantum Dot-Converted LEDs by Incorporating With ZnO Nanoparticles. IEEE Transactions on Electron Devices, 2018, 65, 158-164.	3.0	62
2	Enhanced optical and thermal performance of white light-emitting diodes with horizontally layered quantum dots phosphor nanocomposites. Photonics Research, 2018, 6, 90.	7.0	56
3	Rapid synthesis of highly photoluminescent nitrogen-doped carbon quantum dots via a microreactor with foamy copper for the detection of Hg2+ ions. Sensors and Actuators B: Chemical, 2018, 258, 637-647.	7.8	53
4	Highly Photoluminescent and Stable N-Doped Carbon Dots as Nanoprobes for Hg2+ Detection. Nanomaterials, 2018, 8, 900.	4.1	50
5	Highly Efficient and Waterâ€Stable Lead Halide Perovskite Quantum Dots Using Superhydrophobic Aerogel Inorganic Matrix for White Lightâ€Emitting Diodes. Advanced Materials Technologies, 2020, 5, 1900941.	5.8	42
6	Enhanced Photoluminescence in Quantum Dotsâ€“Porous Polymer Hybrid Films Fabricated by Microcellular Foaming. Advanced Optical Materials, 2019, 7, 1900223.	7.3	39
7	Angular color uniformity enhancement of white light-emitting diodes by remote micro-patterned phosphor film. Photonics Research, 2016, 4, 140.	7.0	38
8	Highly reflective nanofiber films based on electrospinning and their application on color uniformity and luminous efficacy improvement of white light-emitting diodes. Optics Express, 2017, 25, 20598.	3.4	33
9	Butterfly-inspired micro-concavity array film for color conversion efficiency improvement of quantum-dot-based light-emitting diodes. Optics Letters, 2017, 42, 4962.	3.3	23
10	Effect of ZnO nanostructures on the optical properties of white light-emitting diodes. Optics Express, 2017, 25, A432.	3.4	22
11	Color uniformity enhancement for COB WLEDs using a remote phosphor film with two freeform surfaces. Optics Express, 2016, 24, 23685.	3.4	21
12	An Allâ€Fabric Dropletâ€Based Energy Harvester with Topology Optimization. Advanced Energy Materials, 2022, 12, .	19.5	19
13	Energy feedback freeform lenses for uniform illumination of extended light source LEDs. Applied Optics, 2016, 55, 10375.	2.1	17
14	Improvement in Color-Conversion Efficiency and Stability for Quantum-Dot-Based Light-Emitting Diodes Using a Blue Anti-Transmission Film. Nanomaterials, 2018, 8, 508.	4.1	17
15	Biomimetic Porous Fluoropolymer Films with Brilliant Whiteness by Using Polymerizationâ€Induced Phase Separation. Advanced Materials Interfaces, 2022, 9, .	3.7	15
16	ACU Optimization of pcLEDs by Combining the Pulsed Spray and Feedback Method. Journal of Display Technology, 2016, 12, 1229-1234.	1.2	14
17	Enhancement of angular color uniformity of remote-phosphor-converted light-emitting diodes by electrospun-nanofiber diffusing films. Materials Letters, 2018, 227, 104-107.	2.6	13
18	Bioinspired high-scattering polymer films fabricated by polymerization-induced phase separation. Optics Letters, 2020, 45, 2918.	3.3	13

#	Article	IF	Citations
19	Highâ€Transmittance and Highâ€Haze Composite Particleâ€Free Optical Diffusers Enabled by Polymerizationâ€Induced Phase Separation. Advanced Photonics Research, 2021, 2, .	3.6	13
20	White hairy layer on the Boehmeria nivea leafâ€"inspiration for reflective coatings. Bioinspiration and Biomimetics, 2020, 15, 016003.	2.9	12
21	Enhancing Luminous Efficiency of Quantum Dot-Based Chip-on-Board Light-Emitting Diodes Using Polystyrene Fiber Mats. IEEE Transactions on Electron Devices, 2020, 67, 4530-4533.	3.0	9
22	Polystyrene-Fiber-Rod Hybrid Composite Structure for Optical Enhancement in Quantum-Dot-Converted Light-Emitting Diodes. ACS Applied Polymer Materials, 2022, 4, 91-99.	4.4	8
23	Design of Selective Reflectors Utilizing Multiple Scattering by Coreâ€"Shell Nanoparticles for Color Conversion Films. ACS Photonics, 2020, 7, 1452-1460.	6.6	7
24	Freeform illumination lens design combining energy and intensity mapping. Optical Engineering, 2017, 56, 045101.	1.0	6
25	Study of the Optical Properties of Multi-Particle Phosphors by the FDTD and Ray Tracing Combined Method. Photonics, 2020, 7, 126.	2.0	6
26	Nanoporous Polymer Reflectors for Organic Solar Cells. Energy Technology, 2022, 10, 2100676.	3.8	5
27	Numerical study on the scattering property of porous polymer structures via supercritical CO₂ microcellular foaming. Applied Optics, 2020, 59, 4533.	1.8	4
28	The kapok petal: superhydrophobic surface induced by microscale trichomes. Bioinspiration and Biomimetics, 2022, 17, 026007.	2.9	4
29	Micro-Prism Patterned Remote Phosphor Film for Enhanced Luminous Efficiency and Color Uniformity of Phosphor-Converted Light-Emitting Diodes. Micromachines, 2021, 12, 1117.	2.9	2
30	Influence of lens structure on the mechanical strength of high-power light emitting diodes. , 2017, , .		0
31	Enhancing optical performance of quantum dot-converted LEDs via electrospun fiber rods. , 2018, , .		0
32	Diffusion films fabricated by phase separation of polymer blend and their application on color uniformity enhancement of LEDs. , 2018, , .		0
33	Enhancing Color Conversion Efficiency of Quantum Dot LED by Electric Field Assistance. , 2018, , .		0
34	Enhanced color conversion of quantum dots - polymer hybrid films in light emitting diodes. , 2019, , .		0
35	Encapsulation of Perovskite Quantum Dots into Paraffin Microcapsules and application on light-emitting diodes. , 2020, , .		0
36	Highly reflective porous films via polymerization-induced phase separation and application on phosphor-converted light-emitting diodes. , 2020, , .		0

#	Article	IF	Citations
37	Enhanced color conversion efficiency of remote phosphor-converted light-emitting diodes using micro-concavity arrays. , 2018, , .		0
38	Foamed polymer/quantum dots composite films with enhanced photoluminescence efficiency. , 2019, , .		0
39	Highly scattering porous films by polymerization-induced phase separation and application on light-emitting diodes. , 2020, , .		0