

Soo-Ghang Ihn

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,670
citations

430874

18
h-index

345221

36
g-index

43
all docs

43
docs citations

43
times ranked

2508
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency, long-lifetime deep-blue organic light-emitting diodes. <i>Nature Photonics</i> , 2021, 15, 208-215.	31.4	335
2	Enhanced Performance in Polymer Solar Cells by Surface Energy Control. <i>Advanced Functional Materials</i> , 2010, 20, 4381-4387.	14.9	250
3	High Performance Organic Photovoltaic Cells Using Polymer-Hybridized ZnO Nanocrystals as a Cathode Interlayer. <i>Advanced Energy Materials</i> , 2011, 1, 690-698.	19.5	123
4	Degradation of blue-phosphorescent organic light-emitting devices involves exciton-induced generation of polaron pair within emitting layers. <i>Nature Communications</i> , 2018, 9, 1211.	12.8	107
5	An Alternative Host Material for Long-Lifespan Blue Organic Light-Emitting Diodes Using Thermally Activated Delayed Fluorescence. <i>Advanced Science</i> , 2017, 4, 1600502.	11.2	103
6	Morphology- and Orientation-Controlled Gallium Arsenide Nanowires on Silicon Substrates. <i>Nano Letters</i> , 2007, 7, 39-44.	9.1	99
7	Improved Efficiency and Lifetime of Deep-Blue Hyperfluorescent Organic Light-Emitting Diode using Pt(II) Complex as Phosphorescent Sensitizer. <i>Advanced Science</i> , 2021, 8, e2100586.	11.2	91
8	Molecular Design of Deep Blue Thermally Activated Delayed Fluorescence Materials Employing a Homoconjugative Triptycene Scaffold and Dihedral Angle Tuning. <i>Chemistry of Materials</i> , 2018, 30, 1462-1466.	6.7	71
9	ITO-free inverted polymer solar cells using a GZO cathode modified by ZnO. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1610-1614.	6.2	52
10	Control of naturally coupled piezoelectric and photovoltaic properties for multi-type energy scavengers. <i>Energy and Environmental Science</i> , 2011, 4, 4607.	30.8	51
11	Controlled nanomorphology of PCDTBT-fullerene blends via polymer end-group functionalization for high efficiency organic solar cells. <i>Chemical Communications</i> , 2012, 48, 7206.	4.1	49
12	InAs nanowires on Si substrates grown by solid source molecular beam epitaxy. <i>Nanotechnology</i> , 2007, 18, 355603.	2.6	41
13	Growth of GaAs Nanowires on Si Substrates Using a Molecular Beam Epitaxy. <i>IEEE Nanotechnology Magazine</i> , 2007, 6, 384-389.	2.0	32
14	GaAs nanowires on Si substrates grown by a solid source molecular beam epitaxy. <i>Applied Physics Letters</i> , 2006, 89, 053106.	3.3	31
15	Synthesis and photovoltaic properties of benzo[1,2-b:4,5-b']dithiophene derivative-based polymers with deep HOMO levels. <i>Journal of Materials Chemistry</i> , 2012, 22, 17709.	6.7	31
16	Optical properties of undoped, Be-doped, and Si-doped wurtzite-rich GaAs nanowires grown on Si substrates by molecular beam epitaxy. <i>Solid State Communications</i> , 2010, 150, 729-733.	1.9	27
17	Low-temperature growth and characterization of ZnO thin films for flexible inverted organic solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 12274.	6.7	26
18	Improved Efficiency and Stability of Blue Phosphorescent Organic Light Emitting Diodes by Enhanced Orientation of Homoleptic Cyclometalated Ir(III) Complexes. <i>Advanced Optical Materials</i> , 2020, 8, 2001103.	7.3	24

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19	Dipole Moment and Molecular Orbital Engineered Phosphine Oxide Free Host Materials for Efficient and Stable Blue Thermally Activated Delayed Fluorescence. <i>Advanced Science</i> , 2022, 9, e2102141.	11.2	21
20	Controlling band gap and hole mobility of photovoltaic donor polymers with terpolymer system. <i>Polymer</i> , 2012, 53, 5275-5284.	3.8	16
21	Blue Electrofluorescence Resulting from Exergonic Harvesting of Triplet Excitons. <i>Advanced Optical Materials</i> , 2019, 7, 1900630.	7.3	10
22	Molecular beam epitaxy growth of In _{0.52} Al _{0.48} As [*] /In _{0.53} Ga _{0.47} As metamorphic high electron mobility transistor employing growth interruption and in situ rapid thermal annealing. <i>Applied Physics Letters</i> , 2006, 88, 132108.	3.3	9
23	A Novel Design Strategy for Suppressing Efficiency Roll-Off of Blue Thermally Activated Delayed Fluorescence Molecules through Donor-Acceptor Interlocking by C-C Bonds. <i>Nanomaterials</i> , 2019, 9, 1735.	4.1	7
24	Cohosts with efficient host-to-emitter energy transfer for stable blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17412-17418.	5.5	7
25	Designing Stable Deep Blue Thermally Activated Delayed Fluorescence Emitters through Controlling the Intrinsic Stability of Triplet Excitons. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	7
26	Density Control of ZnO Nanorod Arrays on Mixed Self-Assembled Monolayers. <i>Crystal Growth and Design</i> , 2010, 10, 4697-4700.	3.0	6
27	Auger electron nanoscale mapping and x-ray photoelectron spectroscopy combined with gas cluster ion beam sputtering to study an organic bulk heterojunction. <i>Applied Physics Letters</i> , 2014, 104, 243303.	3.3	6
28	High-efficiency blue organic light-emitting Diodes using emissive carbazole-triazine-based donor-acceptor molecules with high reverse intersystem crossing rates. <i>Organic Electronics</i> , 2019, 75, 105399.	2.6	6
29	Direct characterization of vertical molecular distributions of organic bulk heterojunction structure by photoemission spectroscopy combined with argon gas cluster ion beam sputtering. <i>Applied Surface Science</i> , 2020, 515, 146102.	6.1	6
30	Charge Recombination in Polaron Pairs: A Key Factor for Operational Stability of Blue Phosphorescent Light-Emitting Devices. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000028.	2.8	6
31	Autocatalytic effect of amine-terminated precursors in mixed self-assembled monolayers. <i>RSC Advances</i> , 2013, 3, 1112-1118.	3.6	5
32	Enhancement of the power conversion efficiency in a polymer solar cell using a work-function-controlled Ti/SiO ₂ interlayer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2033-2039.	10.3	4
33	Effects of rapid thermal annealing on quality of In _{0.52} Al _{0.48} As [*] /In _{0.53} Ga _{0.47} As multiquantum wells grown on a compositionally graded InAlAs [*] /InAlGaAs metamorphic buffer layer. <i>Applied Physics Letters</i> , 2004, 85, 6335-6337.	3.3	3
34	Carrier dynamics of low-temperature-grown In _{0.53} Ga _{0.47} As on GaAs using an InGaAlAs metamorphic buffer. <i>Applied Physics Letters</i> , 2005, 86, 111903.	3.3	3
35	Effects of Beryllium Doping into InGaAlAs Metamorphic Buffer on High-Electron-Mobility Transistor Structure. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 724-726.	1.5	3
36	Effects of postgrowth rapid thermal annealing on InAlAs [*] /InGaAs metamorphic high-electron-mobility transistor grown on a compositionally graded InAlAs [*] /InGaAlAs buffer. <i>Applied Physics Letters</i> , 2005, 87, 042108.	3.3	2

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37	Crystalline quality improvement of In/sub 0.52/Al/sub 0.48/As/In/sub 0.53/Ga/sub 0.37/As heterostructure on InAlAs/InGaAlAs/GaAs metamorphic buffer by post-growth rapid thermal annealing. , 0, , .		0
38	Carrier lifetime of low-temperautre-grown In/sub 0.53/ga/sub 0.47/as on GaAs using an InGaAlAs metamorphic buffer. , 0, , .		0
39	3D reconstruction modeling of bulk heterojunction organic photovoltaic cells: Effect of the complexity of the boundary on the morphology. Journal of the Korean Physical Society, 2016, 68, 474-481.	0.7	0
40	Blue Electroluminescence: Blue Electrofluorescence Resulting from Exergonic Harvesting of Triplet Excitons (Advanced Optical Materials 18/2019). Advanced Optical Materials, 2019, 7, 1970070.	7.3	0
41	Designing Stable Deepâ€Blue Thermally Activated Delayed Fluorescence Emitters through Controlling the Intrinsic Stability of Triplet Excitons (Advanced Optical Materials 12/2022). Advanced Optical Materials, 2022, 10, .	7.3	0