Tae-Hoon Seo

List of Publications by Year
in descending order

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57	880	471509 17	526287 27
papers	citations	h-index	g-index

57	57	57	1328
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High Areal Capacitance of Nâ€Doped Graphene Synthesized by Arc Discharge. Advanced Functional Materials, 2019, 29, 1905511.	14.9	75
2	Graphene-silver nanowire hybrid structure as a transparent and current spreading electrode in ultraviolet light emitting diodes. Applied Physics Letters, 2013, 103, 051105.	3.3	61
3	Graphene-GaN Schottky diodes. Nano Research, 2015, 8, 1327-1338.	10.4	57
4	Graphene network on indium tin oxide nanodot nodes for transparent and current spreading electrode in InGaN/GaN light emitting diode. Applied Physics Letters, 2011, 98, .	3.3	47
5	Direct growth of etch pit-free GaN crystals on few-layer graphene. RSC Advances, 2015, 5, 1343-1349.	3.6	46
6	Efficient stress-relaxation in InGaN/GaN light-emitting diodes using carbon nanotubes. Nanoscale, 2015, 7, 15099-15105.	5.6	45
7	Tailored CVD graphene coating as a transparent and flexible gas barrier. Scientific Reports, 2016, 6, 24143.	3.3	38
8	Enhanced light output power of near UV light emitting diodes with graphene / indium tin oxide nanodot nodes for transparent and current spreading electrode. Optics Express, 2011, 19, 23111.	3.4	33
9	Coupling of InGaN/GaN multiquantum-wells photoluminescence to surface plasmons in platinum nanocluster. Applied Physics Letters, 2009, 95, 111112.	3.3	30
10	Thin Ni film on graphene current spreading layer for GaN-based blue and ultra-violet light-emitting diodes. Applied Physics Letters, 2013, 102, .	3.3	26
11	Improving the graphene electrode performance in ultra-violet light emitting diode using silver nanowire networks. Optical Materials Express, 2015, 5, 314.	3.0	23
12	Quantifying Carbon Edge Sites on Depressing Hydrogen Evolution Reaction Activity. Nano Letters, 2020, 20, 5885-5892.	9.1	23
13	Dominant formation of h-BC2N in h-BxCyNz films: CVD synthesis and characterization. Carbon, 2021, 182, 791-798.	10.3	23
14	Neuronal differentiation of human mesenchymal stem cells in response to the domain size of graphene substrates. Journal of Biomedical Materials Research - Part A, 2018, 106, 43-51.	4.0	21
15	Defect structure originating from threading dislocations within the GaN film grown on a convex patterned sapphire substrate. Thin Solid Films, 2011, 519, 2398-2401.	1.8	19
16	Grapheneâ€“Carbonâ€“Metal Composite Film for a Flexible Heat Sink. ACS Applied Materials & Interfaces, 2017, 9, 40801-40809.	8.0	18
17	Improved photovoltaic effect in graphene/silicon solar cell using MoO3/Ag/MoO3 multilayer coating. Materials Letters, 2019, 246, 103-106.	2.6	17
18	Enhanced Light Output Power of Near-Ultraviolet Light-Emitting Diodes with Au-Doped Graphene for Transparent and Current-Spreading Electrode. Applied Physics Express, 2012, 5, 115101.	2.4	15

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19	Influence of controlled growth rate on tilt mosaic microstructures of nonpolar a-plane GaN epilayers grown on r-plane sapphire. Electronic Materials Letters, 2012, 8, 335-339.	2.2	15
20	Compound Ag nanocluster-graphene electrodes as transparent and current spreading electrodes for improved light output power in near-ultraviolet light emitting diodes. Journal Physics D: Applied Physics, 2014, 47, 215103.	2.8	14
21	Enhanced Light Output Power of GaN Light-Emitting Diodes with Graphene Film as a Transparent Conducting Electrode. Japanese Journal of Applied Physics, 2011, 50, 125103.	1.5	14
22	Enhancement of light output power in GaN-based light-emitting diodes using hydrothermally grown ZnO micro-walls. Optics Express, 2012, 20, 10597.	3.4	13
23	Improved photovoltaic effects in InGaN-based multiple quantum well solar cell with graphene on indium tin oxide nanodot nodes for transparent and current spreading electrode. Applied Physics Letters, 2013, 102, 031116.	3.3	13
24	Barrier-assisted vapor phase CVD of large-area MoS₂ monolayers with high spatial homogeneity. Nanoscale Advances, 2020, 2, 4106-4116.	4.6	13
25	Light outcoupling effect in GaN light-emitting diodes via convex microstructures monolithically fabricated on sapphire substrate. Optics Express, 2011, 19, 9385.	3.4	12
26	Correlation between reflectance and photoluminescent properties of al-rich ZnO nano-structures. Metals and Materials International, 2015, 21, 561-568.	3.4	11
27	Eggshell membrane hydrolysate as a multi-functional agent for synthesis of functionalized graphene analogue and its catalytic nanocomposites. Journal of Industrial and Engineering Chemistry, 2021, 102, 233-240.	5.8	11
28	Enhancement of light output power in ultraviolet light emitting diodes using graphene film on self-assembled Au nanocluster by agglomeration process. Journal of Applied Physics, 2013, 114, .	2.5	10
29	Solution processed graphene quantum dots decorated ZnO nanoflowers for mediating photoluminescence. Applied Surface Science, 2020, 510, 145407.	6.1	10
30	Simultaneous reduction and functionalization of graphene oxide sheets with tannic acid for a strong composite material with multi-modally interactive interfaces. Diamond and Related Materials, 2021, 119, 108565.	3.9	10
31	A comparison of various surface charge transfer hole doping of graphene grown by chemical vapour deposition. Applied Surface Science, 2017, 418, 258-263.	6.1	9
32	Boron Nitride as a Passivation Capping Layer for AlGaN/GaN High Electron Mobility Transistors. Journal of Nanoscience and Nanotechnology, 2020, 20, 4450-4453.	0.9	9
33	Effect of Polymeric In Situ Stabilizers on Dispersion Homogeneity of Nanofillers and Thermal Conductivity Enhancement of Composites. Langmuir, 2020, 36, 5563-5570.	3.5	9
34	Epitaxial growth of improved GaN epilayer on sapphire substrate with platinum nanocluster. Journal of Crystal Growth, 2009, 311, 2655-2658.	1.5	7
35	Efficiency enhancement of nanorod green light emitting diodes employing silver nanowire-decorated graphene electrode as current spreading layer. Journal Physics D: Applied Physics, 2014, 47, 315102.	2.8	7
36	Fabrication of a Strong Artificial Nacre Based on Tannic Acid-Functionalized Graphene Oxide and Poly(vinyl alcohol) Through Their Multidentate Hydrogen Bonding. Macromolecular Research, 2022, 30, 279-284.	2.4	7

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37	Structural and optical properties of epitaxially laterally overgrown a-plane GaN epilayer on SiO2 stripe patterned r-plane sapphire. Electronic Materials Letters, 2013, 9, 587-592.	2.2	6
38	Domain size engineering of CVD graphene and its influence on physical properties. Journal Physics D: Applied Physics, 2016, 49, 205504.	2.8	6
39	Boron nitride nanotubes as a heat sinking and stress-relaxation layer for high performance light-emitting diodes. Nanoscale, 2017, 9, 16223-16231.	5.6	6
40	The Effect of Oxidative Debris on the Laser Desorption/Ionization Efficiency of Graphene Oxide Derivatives for Mass Spectrometric Analysis of Small Molecules and Synthetic Polymers. Analytical Sciences, 2019, 35, 1097-1102.	1.6	6
41	Two-Dimensional Stacked Composites of Self-Assembled Alkane Layers and Graphene for Transparent Gas Barrier Films with Low Permeability. Nano Letters, 2022, 22, 286-293.	9.1	6
42	Spatial stress distribution and optical properties of GaN films grown on convex shape-patterned sapphire substrate by metalorganic chemical vapor deposition. Journal of Alloys and Compounds, 2011, 509, 2952-2956.	5.5	5
43	Observation of dopant-dependent efficiency in chemically doped graphene/silicon solar cells and prospects for MoOx to overcome the stability and efficiency limits. Journal of Applied Physics, 2021, 129, .	2.5	5
44	Hybrid electrode based on carbon nanotube and graphene for ultraviolet light-emitting diodes. Applied Physics Express, 2015, 8, 102101.	2.4	4
45	Carbon-nanotube-assisted nanoepitaxy of Si-doped GaN for improved performance of InGaN/GaN light-emitting diodes. Nanotechnology, 2016, 27, 275602.	2.6	4
46	Hexagonal Boron Nitride Passivation Layer for Improving the Performance and Reliability of InGaN/GaN Light-Emitting Diodes. Applied Sciences (Switzerland), 2021, 11, 9321.	2.5	4
47	Improved Strain-Free GaN Growth with a Nearly Lattice-Matched AlInN Interlayer by Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2010, 49, 111001.	1.5	3
48	Effect of p-GaN hole concentration on the stabilization and performance of a graphene current spreading layer in near-ultraviolet light-emitting diodes. Current Applied Physics, 2016, 16, 1382-1387.	2.4	3
49	Effect of Strain Relaxation in InGaN/GaN Multi-Quantum Wells with Self-Assembled Pt Nanoclusters. Journal of Nanoscience and Nanotechnology, 2014, 14, 8347-8351.	0.9	2
50	Dual-Wavelength Light Emission from CdSe/ZnS Quantum Dots on Blue Light-Emitting Diodes. Journal of Nanoscience and Nanotechnology, 2015, 15, 10037-10040.	0.9	2
51	Gas Barrier Performance of Hexagonal Boron Nitride Monolayers Grown on Copper Foils with Electrochemical Polishing. Applied Sciences (Switzerland), 2021, 11, 4599.	2.5	2
52	Improved efficiency of green GaN LEDs via excitonâ€“surface plasmon coupling by Au nanoclusters embedded in a micro-hole patterned p-GaN layer. Applied Physics Letters, 2021, 119, .	3.3	2
53	Enhanced light output of GaN-based light emitting diodes with self-assembled ZnO nanorod arrays. , 2011, , .		1
54	Nanoscale layer of a minimized defect area of graphene and hexagonal boron nitride on copper for excellent anti-corrosion activity. Nanotechnology, 2021, 33, .	2.6	1

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55	Efficiency improvement in InGaN-based solar cells by indium tin oxide nano dots covered with ITO films. Optics Express, 2012, 20, A991-6.	3.4	1
56	Growth of GaN epilayers on nanoporous GaN templates generated by electrochemical etching at defect sites. , 2011, , .		0
57	Investigation of the Ligand Exchange Process on Gold Nanorods by Using Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Materials, 2022, 15, 4406.	2.9	0