Aadil Waseem

List of Publications by Year
in descending order

31	644	687363 13	580821 25
papers	citations	h-index	g-index

32	32	32	766
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cu2O as an emerging photocathode for solar water splitting - A status review. International Journal of Hydrogen Energy, 2019, 44, 21351-21378.	7.1	155
2	Single-step fabrication of 3D hierarchical ZnO/ZnS heterojunction branched nanowires by MOCVD for enhanced photoelectrochemical water splitting. Journal of Materials Chemistry A, 2020, 8, 8300-8312.	10.3	52
3	Transferred monolayer MoS2 onto GaN for heterostructure photoanode: Toward stable and efficient photoelectrochemical water splitting. Scientific Reports, 2019, 9, 20141.	3.3	46
4	Stable and High Piezoelectric Output of GaN Nanowire-Based Lead-Free Piezoelectric Nanogenerator by Suppression of Internal Screening. Nanomaterials, 2018, 8, 437.	4.1	38
5	Effect of crystal orientation of GaN/V2O5 core-shell nanowires on piezoelectric nanogenerators. Nano Energy, 2019, 60, 413-423.	16.0	36
6	Facile growth of high aspect ratio c-axis GaN nanowires and their application as flexible p-n NiO/GaN piezoelectric nanogenerators. Acta Materialia, 2018, 161, 237-245.	7.9	29
7	Highly Durable Piezoelectric Nanogenerator by Heteroepitaxy of GaN Nanowires on Cu Foil for Enhanced Output Using Ambient Actuation Sources. Advanced Energy Materials, 2020, 10, 2002608.	19.5	26
8	Toward stable photoelectrochemical water splitting using NiOOH coated hierarchical nitrogen-doped ZnO-Si nanowires photoanodes. Journal of Energy Chemistry, 2022, 71, 45-55.	12.9	24
9	Flexible self-powered piezoelectric pressure sensor based on GaN/p-GaN coaxial nanowires. Journal of Alloys and Compounds, 2021, 872, 159661.	5.5	23
10	Universal and scalable route to fabricate GaN nanowire-based LED on amorphous substrate by MOCVD. Applied Materials Today, 2020, 19, 100541.	4.3	22
11	Ultrafast carrier dynamics of conformally grown semi-polar (112Ì„2) GaN/InGaN multiple quantum well co-axial nanowires on m-axial GaN core nanowires. Nanoscale, 2019, 11, 10932-10943.	5.6	20
12	Type-II ZnO/ZnS core-shell nanowires: Earth-abundant photoanode for solar-driven photoelectrochemical water splitting. Optics Express, 2019, 27, A184.	3.4	19
13	GaN/Al2O3 core-shell nanowire based flexible and stable piezoelectric energy harvester. Journal of Alloys and Compounds, 2021, 860, 158545.	5.5	15
14	Enhanced piezoelectric output of NiO/nanoporous GaN by suppression of internal carrier screening. Semiconductor Science and Technology, 2018, 33, 065007.	2.0	12
15	Three-dimensional hierarchical semi-polar GaN/InGaN MQW coaxial nanowires on a patterned Si nanowire template. Nanoscale Advances, 2020, 2, 1654-1665.	4.6	12
16	Stable and Efficient Photoelectrochemical Water Splitting of GaN Nanowire Photoanode Coated with Au Nanoparticles by Hot-Electron-Assisted Transport. ACS Applied Energy Materials, 2021, 4, 13759-13765.	5.1	12
17	Facile morphology control of high aspect ratio patterned Si nanowires by metal-assisted chemical etching. Journal of Materials Science: Materials in Electronics, 2018, 29, 18167-18177.	2.2	11
18	Gallium phosphide photoanodes coated with nickel oxyhydroxide cocatalyst for stable photoelectrochemical water splitting reactions. Applied Surface Science, 2021, 558, 149873.	6.1	10

#	Article	IF	Citations
19	Unbiased solar water splitting of GaN photoanodes with Au nanoparticles supported by plasmon-assisted hot-carrier transfer. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 275, 115514.	3.5	10
20	GaN Nanowire Growth Promoted by Inâ€“Gaâ€“Au Alloy Catalyst with Emphasis on Agglomeration Temperature and In Composition. ACS Omega, 2021, 6, 3173-3185.	3.5	9
21	Enhanced stability of piezoelectric nanogenerator based on GaN/V₂O₅ core-shell nanowires with capacitive contact. Nanotechnology, 2020, 31, 075401.	2.6	8
22	Synergic effect of ZnO nanostructures and cobalt phosphate co-catalyst on photoelectrochemical properties of GaN. Materials Chemistry and Physics, 2021, 260, 124141.	4.0	8
23	CF4 plasma-treated porous silicon nanowire arrays laminated with MnO2 nanoflakes for asymmetric pseudocapacitors. Chemical Engineering Journal, 2021, 419, 129515.	12.7	8
24	Three-Dimensional Integration of CuO-Si Hierarchical Nanowires for Electrochemical Detection of N₂H₄. ACS Applied Nano Materials, 2020, 3, 4394-4406.	5.0	7
25	Enhanced performance of a flexible and wearable piezoelectric nanogenerator using semi-insulating GaN:Mg/ZnO coaxial nanowires. Nano Energy, 2021, 90, 106552.	16.0	7
26	Self-powered and flexible piezo-sensors based on conductivity-controlled GaN nanowire-arrays for mimicking rapid- and slow-adapting mechanoreceptors. Npj Flexible Electronics, 2022, 6, .	10.7	6
27	Cu 2 O Heterostructured GaN Thin Film and GaN Nanowire Piezoelectric Nanogenerators. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900798.	1.8	5
28	Epitaxial Growth of GaN Core and InGaN/GaN Multiple Quantum Well Core/Shell Nanowires on a Thermally Conductive Beryllium Oxide Substrate. ACS Omega, 2020, 5, 17753-17760.	3.5	4
29	High Performance, Stable, and Flexible Piezoelectric Nanogenerator Based on GaN:Mg Nanowires Directly Grown on Tungsten Foil. Small, 2022, , 2200952.	10.0	4
30	Optical characterization of type-II ZnO/ZnS multiple quantum wells grown by atomic layer deposition. Thin Solid Films, 2020, 694, 137740.	1.8	3
31	Growth of a axial GaN core-nanowires, semi-polar (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 282 Td (xmlns:mml="http:// GaN/InGaN multiple quantum well co-axial nanowires on Si substrate, and their carrier dynamics. Optical Materials, 2020, 105, 109854.	3.6	2