

Aadil Waseem

List of Publications by Year in descending order

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31
papers

644
citations

687363

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580821

25
g-index

32
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32
docs citations

32
times ranked

766
citing authors

#	ARTICLE	IF	CITATIONS
1	Unbiased solar water splitting of GaN photoanodes with Au nanoparticles supported by plasmon-assisted hot-carrier transfer. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 275, 115514.	3.5	10
2	Toward stable photoelectrochemical water splitting using NiOOH coated hierarchical nitrogen-doped ZnO-Si nanowires photoanodes. <i>Journal of Energy Chemistry</i> , 2022, 71, 45-55.	12.9	24
3	High Performance, Stable, and Flexible Piezoelectric Nanogenerator Based on GaN:Mg Nanowires Directly Grown on Tungsten Foil. <i>Small</i> , 2022, , 2200952.	10.0	4
4	Self-powered and flexible piezo-sensors based on conductivity-controlled GaN nanowire-arrays for mimicking rapid- and slow-adapting mechanoreceptors. <i>Npj Flexible Electronics</i> , 2022, 6, .	10.7	6
5	Synergic effect of ZnO nanostructures and cobalt phosphate co-catalyst on photoelectrochemical properties of GaN. <i>Materials Chemistry and Physics</i> , 2021, 260, 124141.	4.0	8
6	GaN Nanowire Growth Promoted by In-Ga-Au Alloy Catalyst with Emphasis on Agglomeration Temperature and In Composition. <i>ACS Omega</i> , 2021, 6, 3173-3185.	3.5	9
7	GaN/Al ₂ O ₃ core-shell nanowire based flexible and stable piezoelectric energy harvester. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158545.	5.5	15
8	Gallium phosphide photoanodes coated with nickel oxyhydroxide cocatalyst for stable photoelectrochemical water splitting reactions. <i>Applied Surface Science</i> , 2021, 558, 149873.	6.1	10
9	Flexible self-powered piezoelectric pressure sensor based on GaN/p-GaN coaxial nanowires. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159661.	5.5	23
10	CF ₄ plasma-treated porous silicon nanowire arrays laminated with MnO ₂ nanoflakes for asymmetric pseudocapacitors. <i>Chemical Engineering Journal</i> , 2021, 419, 129515.	12.7	8
11	Enhanced performance of a flexible and wearable piezoelectric nanogenerator using semi-insulating GaN:Mg/ZnO coaxial nanowires. <i>Nano Energy</i> , 2021, 90, 106552.	16.0	7
12	Stable and Efficient Photoelectrochemical Water Splitting of GaN Nanowire Photoanode Coated with Au Nanoparticles by Hot-Electron-Assisted Transport. <i>ACS Applied Energy Materials</i> , 2021, 4, 13759-13765.	5.1	12
13	Enhanced stability of piezoelectric nanogenerator based on GaN/V ₂ O ₅ core-shell nanowires with capacitive contact. <i>Nanotechnology</i> , 2020, 31, 075401.	2.6	8
14	Universal and scalable route to fabricate GaN nanowire-based LED on amorphous substrate by MOCVD. <i>Applied Materials Today</i> , 2020, 19, 100541.	4.3	22
15	Optical characterization of type-II ZnO/ZnS multiple quantum wells grown by atomic layer deposition. <i>Thin Solid Films</i> , 2020, 694, 137740.	1.8	3
16	Highly Durable Piezoelectric Nanogenerator by Heteroepitaxy of GaN Nanowires on Cu Foil for Enhanced Output Using Ambient Actuation Sources. <i>Advanced Energy Materials</i> , 2020, 10, 2002608.	19.5	26
17	Epitaxial Growth of GaN Core and InGaN/GaN Multiple Quantum Well Core/Shell Nanowires on a Thermally Conductive Beryllium Oxide Substrate. <i>ACS Omega</i> , 2020, 5, 17753-17760.	3.5	4
18	Three-dimensional hierarchical semi-polar GaN/InGaN MQW coaxial nanowires on a patterned Si nanowire template. <i>Nanoscale Advances</i> , 2020, 2, 1654-1665.	4.6	12

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19	Cu ₂ O Heterostructured GaN Thin Film and GaN Nanowire Piezoelectric Nanogenerators. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900798.	1.8	5
20	Single-step fabrication of 3D hierarchical ZnO/ZnS heterojunction branched nanowires by MOCVD for enhanced photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8300-8312.	10.3	52
21	Three-Dimensional Integration of CuO-Si Hierarchical Nanowires for Electrochemical Detection of N_2 and H_2 . <i>ACS Applied Nano Materials</i> , 2020, 3, 4394-4406. Growth of a-axial GaN core nanowires, semi-polar ($\langle 11\bar{2}1,2 \rangle$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 642 Td (xmlns:mml="http://www.w	5.0	7
22	GaN/InGaN multiple quantum well co-axial nanowires on Si substrate, and their carrier dynamics. <i>Optical Materials</i> , 2020, 105, 109854.	3.6	2
23	Cu ₂ O as an emerging photocathode for solar water splitting - A status review. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21351-21378.	7.1	155
24	Ultrafast carrier dynamics of conformally grown semi-polar ($11\bar{2}1,2$) GaN/InGaN multiple quantum well co-axial nanowires on m-axial GaN core nanowires. <i>Nanoscale</i> , 2019, 11, 10932-10943.	5.6	20
25	Effect of crystal orientation of GaN/V ₂ O ₅ core-shell nanowires on piezoelectric nanogenerators. <i>Nano Energy</i> , 2019, 60, 413-423.	16.0	36
26	Transferred monolayer MoS ₂ onto GaN for heterostructure photoanode: Toward stable and efficient photoelectrochemical water splitting. <i>Scientific Reports</i> , 2019, 9, 20141.	3.3	46
27	Type-II ZnO/ZnS core-shell nanowires: Earth-abundant photoanode for solar-driven photoelectrochemical water splitting. <i>Optics Express</i> , 2019, 27, A184.	3.4	19
28	Enhanced piezoelectric output of NiO/nanoporous GaN by suppression of internal carrier screening. <i>Semiconductor Science and Technology</i> , 2018, 33, 065007.	2.0	12
29	Facile growth of high aspect ratio c-axis GaN nanowires and their application as flexible p-n NiO/GaN piezoelectric nanogenerators. <i>Acta Materialia</i> , 2018, 161, 237-245.	7.9	29
30	Stable and High Piezoelectric Output of GaN Nanowire-Based Lead-Free Piezoelectric Nanogenerator by Suppression of Internal Screening. <i>Nanomaterials</i> , 2018, 8, 437.	4.1	38
31	Facile morphology control of high aspect ratio patterned Si nanowires by metal-assisted chemical etching. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18167-18177.	2.2	11