

Da-Ren Hang

List of Publications by Year in descending order

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50
papers

916
citations

361413

20
h-index

501196

28
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51
all docs

51
docs citations

51
times ranked

1032
citing authors

#	ARTICLE	IF	CITATIONS
1	Al _x Ga _{1-x} N/GaN band offsets determined by deep-level emission. Journal of Applied Physics, 2001, 90, 1887-1890.	2.5	76
2	Facile and Cost-efficient Synthesis of Quasi-2D ZnO/MoS ₂ Nanocomposites for Highly Enhanced Visible-Light-Driven Photocatalytic Degradation of Organic Pollutants and Antibiotics. Chemistry - A European Journal, 2018, 24, 9305-9315.	3.3	61
3	Annealing effects on the optical and morphological properties of ZnO nanorods on AZO substrate by using aqueous solution method at low temperature. Nanoscale Research Letters, 2014, 9, 632.	5.7	50
4	Effective mass of two-dimensional electron gas in an Al _{0.2} Ga _{0.8} N/GaN heterojunction. Applied Physics Letters, 2001, 79, 66-68.	3.3	34
5	Crystal growth and properties of LiAlO ₂ and nonpolar GaN on LiAlO ₂ substrate. Journal of Applied Physics, 2007, 101, 103106.	2.5	33
6	Transport in a gated Al _{0.18} Ga _{0.82} N/GaN electron system. Journal of Applied Physics, 2003, 94, 3181-3184.	2.5	32
7	Crystal Growth of Nonpolar m-Plane ZnO on a Lattice-Matched (100) β -LiAlO ₂ Substrate. Crystal Growth and Design, 2009, 9, 2073-2078.	3.0	31
8	Full Solution-Processed Synthesis and Mechanisms of a Recyclable and Bifunctional Au/ZnO Plasmonic Platform for Enhanced UV/Vis Photocatalysis and Optical Properties. Chemistry - A European Journal, 2016, 22, 14950-14961.	3.3	29
9	Epitaxial growth of nonpolar m-plane ZnO (10 \times 10) on large-size LiGaO ₂ (100) substrates. Thin Solid Films, 2011, 519, 3627-3631.	1.8	28
10	Fabrication and photoresponse of ZnO nanowires/CuO coaxial heterojunction. Nanoscale Research Letters, 2013, 8, 387.	5.7	28
11	Facile Bottom-up Preparation of WS ₂ -Based Water-Soluble Quantum Dots as Luminescent Probes for Hydrogen Peroxide and Glucose. Nanoscale Research Letters, 2019, 14, 271.	5.7	28
12	Rational design of hetero-dimensional C-ZnO/MoS ₂ nanocomposite anchored on 3D mesoporous carbon framework towards synergistically enhanced stability and efficient visible-light-driven photocatalytic activity. Chemosphere, 2021, 266, 129148.	8.2	28
13	Enhanced Photocatalytic Performance of ZnO Nanorods Coupled by Two-Dimensional β -MoO ₃ Nanoflakes under UV and Visible Light Irradiation. Chemistry - A European Journal, 2016, 22, 12777-12784.	3.3	27
14	Two dimensional β -MoO _{3-x} nanoflakes as bare eye probe for hydrogen peroxide in biological fluids. Analytica Chimica Acta, 2018, 1015, 58-65.	5.4	27
15	Room-temperature violet luminescence and ultraviolet photodetection of Sb-doped ZnO/Al-doped ZnO homojunction array. Nanoscale Research Letters, 2013, 8, 313.	5.7	24
16	Comparative Photothermal Performance among Various Substoichiometric 2D Oxygen-Deficient Molybdenum Oxide Nanoflakes and In Vivo Toxicity. Chemistry - A European Journal, 2018, 24, 7417-7427.	3.3	23
17	Rapid naked eye detection of alkaline phosphatase using β -MoO _{3-x} nano-flakes. Sensors and Actuators B: Chemical, 2018, 254, 514-518.	7.8	23
18	Electrically detected and microwave-modulated Shubnikov-de Haas oscillations in an Al _{0.4} Ga _{0.6} N/GaN heterostructure. Journal of Applied Physics, 2003, 93, 2055-2058.	2.5	21

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19	Growth of nonpolar m-plane GaN epitaxial film on a lattice-matched (100) LiGaO_2 substrate by chemical vapor deposition. <i>Thin Solid Films</i> , 2011, 519, 5066-5069.	1.8	21
20	Controlling band gap and refractive index in dopant-free Fe_2O_3 films. <i>Electronic Materials Letters</i> , 2015, 11, 13-23.	2.2	21
21	Glucose oxidase assisted visual detection of glucose using oxygen deficient MoO_{3-x} nanoflakes. <i>Mikrochimica Acta</i> , 2018, 185, 65.	5.0	21
22	2D CTAB-MoSe ₂ Nanosheets and 0D MoSe ₂ Quantum Dots: Facile Top-Down Preparations and Their Peroxidase-Like Catalytic Activity for Colorimetric Detection of Hydrogen Peroxide. <i>Nanomaterials</i> , 2020, 10, 2045.	4.1	20
23	Growth and characterization of m-plane GaN-based layers on LiAlO_2 (100) grown by MOVPE. <i>Journal of Crystal Growth</i> , 2009, 311, 452-455.	1.5	18
24	Growth and characterizations of nonpolar [11 $\bar{2}$ 0] ZnO on [100] (La,Sr)(Al,Ta)O ₃ substrate by chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2010, 312, 1170-1174.	1.5	15
25	Nonpolar a-plane ZnO growth and nucleation mechanism on (100) (La, Sr)(Al, Ta)O ₃ substrate. <i>Materials Chemistry and Physics</i> , 2011, 125, 791-795.	4.0	15
26	Persistent photoconductivity in $\text{In}_x\text{Al}_y\text{Ga}_{1-x-y}\text{N}$ quaternary alloys. <i>Applied Physics Letters</i> , 2003, 82, 1884-1886.	3.3	14
27	From semiclassical transport to quantum Hall effect under low-field Landau quantization. <i>Solid State Communications</i> , 2007, 141, 17-21.	1.9	14
28	Optical characteristics of nonpolar a-plane ZnO thin film on (010) LiGaO_2 substrate. <i>Semiconductor Science and Technology</i> , 2014, 29, 085004.	2.0	14
29	Two-subband-populated AlGaInGa heterostructures probed by electrically detected and microwave-modulated magnetotransport measurements. <i>Applied Physics Letters</i> , 2006, 89, 092116.	3.3	12
30	Improved quality of nonpolar m-plane GaN [101 $\bar{1}$ 0] on LiAlO_2 substrate using a modified chemical vapor deposition. <i>Journal of Applied Physics</i> , 2010, 107, 013502.	2.5	12
31	Shubnikov-De Haas oscillations of two-dimensional electron gas in an $\text{InAsN}/\text{InGaAs}$ single quantum well. <i>Semiconductor Science and Technology</i> , 2002, 17, 999-1003.	2.0	10
32	Probing semiclassical magneto-oscillations in the low-field quantum Hall effect. <i>Physical Review B</i> , 2009, 80, .	3.2	10
33	Resonant Raman scattering and photoluminescent properties of nonpolar a-plane ZnO thin film on LiGaO_2 substrate. <i>Applied Physics Express</i> , 2014, 7, 041101.	2.4	10
34	An experimental study on Γ_2 modular symmetry in the quantum Hall system with a small spin splitting. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 026205.	1.8	9
35	Growth and Characterization of Vertically Aligned Nonpolar [11 $\bar{1}$ 00] Orientation ZnO Nanostructures on (100) LiAlO_2 Substrate. <i>Crystal Growth and Design</i> , 2012, 12, 6208-6214.	3.0	9
36	Synthesis and characterization of two-dimensional carbon dots decorated with molybdenum oxide nanoflakes with various phases. <i>New Journal of Chemistry</i> , 2016, 40, 8954-8960.	2.8	9

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37	Large effective mass enhancement of the InAs $1\hat{\sim}xN_x$ alloys in the dilute limit probed by Shubnikov-de Haas oscillations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 308-311.	2.7	8
38	Optical characteristics of m-plane InGaN/GaN multiple quantum well grown on LiAlO ₂ (100) by MOVPE. <i>Journal of Crystal Growth</i> , 2009, 311, 2919-2922.	1.5	8
39	MOVPE growth and properties of non-polar InGaN/GaN multiple quantum wells on $\hat{1}^3$ -LiAlO ₂ substrates. <i>Journal of Crystal Growth</i> , 2010, 312, 1329-1333.	1.5	8
40	Positive and negative persistent photoconductivity in a two-side-doped In _{0.53} Ga _{0.47} As/In _{0.52} Al _{0.48} As quantum well. <i>Physical Review B</i> , 1999, 60, 13318-13321.	3.2	7
41	Effects of Zeeman spin splitting on the modular symmetry in the quantum Hall effect. <i>Microelectronics Journal</i> , 2005, 36, 469-471.	2.0	7
42	Two-dimensional molybdenum trioxide nanoflakes wrapped with interlayer-expanded molybdenum disulfide nanosheets: Superior performances in supercapacitive energy storage and visible-light-driven photocatalysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34663-34678.	7.1	6
43	Growth of free-standing non-polar GaN on (100) $\hat{1}^3$ -LiAlO ₂ substrates by hydride vapor phase epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1764-1766.	0.8	5
44	Optical Investigations of Non-polar $\beta_m\{m\}$ -plane InGaN/GaN Multiple Quantum Wells Grown on LiAlO ₂ (100) by Using MOVPE. <i>Journal of the Korean Physical Society</i> , 2009, 55, 250-254.	0.7	4
45	Microwave-modulated Shubnikov-de Haas oscillations in a two-dimensional GaN electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 578-581.	2.7	2
46	On the coexistence of localization and semiclassical transport in the low-field quantum Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1558-1561.	2.7	2
47	Conventional and microwave-modulated Shubnikov-de Haas oscillations in GaN electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 631-635.	2.7	1
48	Microwave-aided transport measurements on high-density two-dimensional electron systems confined at AlGaIn/GaN heterointerfaces. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2323-2326.	0.8	0
49	Fabrication and characterization of quantum Hall devices for the resistance standard at CMS. , 2010, , .		0
50	Landau-level mixing, floating-up extended states, and scaling behavior in a GaAs-based two-dimensional electron system containing self-assembled InAs dots. <i>Semiconductor Science and Technology</i> , 2017, 32, 085011.	2.0	0