# Da-Ren Hang

List of Publications by Year
in descending order



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|---|---|---|---|
| 50 papers | 916 citations | 361413<br>20 h-index | 501196<br>28 g-index |
| 51 all docs | 51 docs citations | 51 times ranked | 1032 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rational design of hetero-dimensional C-ZnO/MoS2 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 |
| 2 | Two-dimensional molybdenum trioxide nanoflakes wrapped with interlayer-expanded molybdenum disulfide nanosheets: Superior performances in supercapacitive energy storage and visible-light-driven photocatalysis. International Journal of Hydrogen Energy, 2021, 46, 34663-34678. | 7.1 | 6 |
| 3 | 2D CTAB-MoSe2 Nanosheets and 0D MoSe2 Quantum Dots: Facile Top-Down Preparations and Their Peroxidase-Like Catalytic Activity for Colorimetric Detection of Hydrogen Peroxide. Nanomaterials, 2020, 10, 2045. | 4.1 | 20 |
| 4 | Facile Bottom-up Preparation of WS2-Based Water-Soluble Quantum Dots as Luminescent Probes for Hydrogen Peroxide and Glucose. Nanoscale Research Letters, 2019, 14, 271. | 5.7 | 28 |
| 5 | Comparative Photothermal Performance among Various Subâ€Stoichiometric 2D Oxygenâ€Deficient Molybdenum Oxide Nanoflakes and Inâ€…Vivo Toxicity. Chemistry - A European Journal, 2018, 24, 7417-7427. | 3.3 | 23 |
| 6 | Two dimensional Î±-MoO 3-x nanoflakes as bare eye probe for hydrogen peroxide in biological fluids. Analytica Chimica Acta, 2018, 1015, 58-65. | 5.4 | 27 |
| 7 | Glucose oxidase assisted visual detection of glucose using oxygen deficient Î±-MoO3-x nanoflakes. Mikrochimica Acta, 2018, 185, 65. | 5.0 | 21 |
| 8 | Facile and Costâ€Efficient Synthesis of Quasiâ€0D/2D ZnO/MoS<sub>2</sub> Nanocomposites for Highly Enhanced Visibleâ€Lightâ€Driven Photocatalytic Degradation of Organic Pollutants and Antibiotics. Chemistry - A European Journal, 2018, 24, 9305-9315. | 3.3 | 61 |
| 9 | Rapid naked eye detection of alkaline phosphatase using Î±-MoO3-x nano-flakes. Sensors and Actuators B: Chemical, 2018, 254, 514-518. | 7.8 | 23 |
| 10 | Landau-level mixing, floating-up extended states, and scaling behavior in a GaAs-based two-dimensional electron system containing self-assembled InAs dots. Semiconductor Science and Technology, 2017, 32, 085011. | 2.0 | 0 |
| 11 | Synthesis and characterization of two-dimensional carbon dots decorated with molybdenum oxide nanoflakes with various phases. New Journal of Chemistry, 2016, 40, 8954-8960. | 2.8 | 9 |
| 12 | Enhanced Photocatalytic Performance of ZnO Nanorods Coupled by Twoâ€Dimensional Î±â€MoO<sub>3</sub> Nanoflakes under UV and Visible Light Irradiation. Chemistry - A European Journal, 2016, 22, 12777-12784. | 3.3 | 27 |
| 13 | Full Solutionâ€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 |
| 14 | Controlling band gap and refractive index in dopant-free Î±-Fe2O3 films. Electronic Materials Letters, 2015, 11, 13-23. | 2.2 | 21 |
| 15 | Resonant Raman scattering and photoluminescent properties of nonpolar<i>a</i>-plane ZnO thin film on LiGaO<sub>2</sub>substrate. Applied Physics Express, 2014, 7, 041101. | 2.4 | 10 |
| 16 | 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 |
| 17 | Optical characteristics of nonpolara-plane ZnO thin film on (010) LiGaO2substrate. Semiconductor Science and Technology, 2014, 29, 085004. | 2.0 | 14 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Fabrication and photoresponse of ZnO nanowires/CuO coaxial heterojunction. Nanoscale Research Letters, 2013, 8, 387. | 5.7 | 28 |
| 20 | On the coexistence of localization and semiclassical transport in the low-field quantum Hall effect. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1558-1561. | 2.7 | 2 |
| 21 | Growth and Characterization of Vertically Aligned Nonpolar [11Ì…00] Orientation ZnO Nanostructures on (100) Î³-LiAlO<sub>2</sub> Substrate. Crystal Growth and Design, 2012, 12, 6208-6214. | 3.0 | 9 |
| 22 | Nonpolar a-plane ZnO growth and nucleation mechanism on (100) (La, Sr)(Al, Ta)O3 substrate. Materials Chemistry and Physics, 2011, 125, 791-795. | 4.0 | 15 |
| 23 | Growth of nonpolar m-plane GaN epitaxial film on a lattice-matched (100) Î²-LiGaO2 substrate by chemical vapor deposition. Thin Solid Films, 2011, 519, 5066-5069. | 1.8 | 21 |
| 24 | Epitaxial growth of nonpolar m-plane ZnO (10â€“10) on large-size LiGaO2 (100) substrates. Thin Solid Films, 2011, 519, 3627-3631. | 1.8 | 28 |
| 25 | MOVPE growth and properties of non-polar InGaN/GaN multiple quantum wells on Î³-LiAlO2 substrates. Journal of Crystal Growth, 2010, 312, 1329-1333. | 1.5 | 8 |
| 26 | Growth and characterizations of nonpolar [11â˜'20] ZnO on [100] (La,Sr)(Al,Ta)O3 substrate by chemical vapor deposition. Journal of Crystal Growth, 2010, 312, 1170-1174. | 1.5 | 15 |
| 27 | Growth of freeâ€standing nonâ€polar GaN on (100) Î³â€LiAlO<sub>2</sub> substrates by hydride vapor phase epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1764-1766. | 0.8 | 5 |
| 28 | Fabrication and characterization of quantum Hall devices for the resistance standard at CMS. , 2010, , . | | 0 |
| 29 | Improved quality of nonpolar m-plane GaN [101Â¯0] on LiAlO2 substrate using a modified chemical vapor deposition. Journal of Applied Physics, 2010, 107, 013502. | 2.5 | 12 |
| 30 | Probing semiclassical magneto-oscillations in the low-field quantum Hall effect. Physical Review B, 2009, 80, . | 3.2 | 10 |
| 31 | Growth and characterization of m-plane GaN-based layers on LiAlO2 (100) grown by MOVPE. Journal of Crystal Growth, 2009, 311, 452-455. | 1.5 | 18 |
| 32 | Optical characteristics of m-plane InGaN/GaN multiple quantum well grown on LiAlO2 (100) by MOVPE. Journal of Crystal Growth, 2009, 311, 2919-2922. | 1.5 | 8 |
| 33 | Crystal Growth of Nonpolar m-Plane ZnO on a Lattice-Matched (100) Î³-LiAlO<sub>2</sub> Substrate. Crystal Growth and Design, 2009, 9, 2073-2078. | 3.0 | 31 |
| 34 | Optical Investigations of Non-polar $bm{m}$-plane InGaN/GaN Multiple Quantum Wells Grown on LiAlO$_{2}$ (100) by Using MOVPE. Journal of the Korean Physical Society, 2009, 55, 250-254. | 0.7 | 4 |
| 35 | An experimental study on Î“(2) modular symmetry in the quantum Hall system with a small spin splitting. Journal of Physics Condensed Matter, 2007, 19, 026205. | 1.8 | 9 |
| 36 | Crystal growth and properties of LiAlO2 and nonpolar GaN on LiAlO2 substrate. Journal of Applied Physics, 2007, 101, 103106. | 2.5 | 33 |

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|---|---|---|---|
| 37 | From semiclassical transport to quantum Hall effect under low-field Landau quantization. Solid State Communications, 2007, 141, 17-21. | 1.9 | 14 |
| 38 | Two-subband-populated AlGaNâ^•GaN heterostructures probed by electrically detected and microwave-modulated magnetotransport measurements. Applied Physics Letters, 2006, 89, 092116. | 3.3 | 12 |
| 39 | Effects of Zeeman spin splitting on the modular symmetry in the quantum Hall effect. Microelectronics Journal, 2005, 36, 469-471. | 2.0 | 7 |
| 40 | Large effective mass enhancement of the InAs1â^'xNx alloys in the dilute limit probed by Shubnikov-de Haas oscillations. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 308-311. | 2.7 | 8 |
| 41 | Conventional and microwave-modulated Shubnikovâ€"de Haas oscillations in GaN electron systems. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 631-635. | 2.7 | 1 |
| 42 | Microwave-modulated Shubnikovâ€"de Haas oscillations in a two-dimensional GaN electron gas. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 578-581. | 2.7 | 2 |
| 43 | Microwave-aided transport measurements on high-density two-dimensional electron systems confined at AlGaN/GaN heterointerfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2323-2326. | 0.8 | 0 |
| 44 | Electrically detected and microwave-modulated Shubnikovâ€"de Haas oscillations in an Al0.4Ga0.6N/GaN heterostructure. Journal of Applied Physics, 2003, 93, 2055-2058. | 2.5 | 21 |
| 45 | Transport in a gated Al0.18Ga0.82N/GaN electron system. Journal of Applied Physics, 2003, 94, 3181-3184. | 2.5 | 32 |
| 46 | Persistent photoconductivity in InxAlyGa1â^'xâ^'yN quaternary alloys. Applied Physics Letters, 2003, 82, 1884-1886. | 3.3 | 14 |
| 47 | ShubnikovÂde Haas oscillations of two-dimensional electron gas in an InAsN/InGaAs single quantum well. Semiconductor Science and Technology, 2002, 17, 999-1003. | 2.0 | 10 |
| 48 | Effective mass of two-dimensional electron gas in an Al0.2Ga0.8N/GaN heterojunction. Applied Physics Letters, 2001, 79, 66-68. | 3.3 | 34 |
| 49 | AlxGa1â^'xN/GaN band offsets determined by deep-level emission. Journal of Applied Physics, 2001, 90, 1887-1890. | 2.5 | 76 |
| 50 | Positive and negative persistent photoconductivity in a two-side-dopedIn0.53Ga0.47As/In0.52Al0.48Asquantum well. Physical Review B, 1999, 60, 13318-13321. | 3.2 | 7 |