

Hung-Pin Hsu

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Anisotropic Spectroscopy and Electrical Properties of 2D $\text{ReS}_2(1\text{-}x)\text{Se}_2x$ Alloys with Distorted 1T Structure. <i>Small</i> , 2017, 13, 1603788. | 10.0 | 70 |
| 2 | Temperature-dependent photoluminescence emission and Raman scattering from MoS_2 monolayers. <i>Nanotechnology</i> , 2016, 27, 445705. | 2.6 | 48 |
| 3 | Photoconductivities in monocrystalline layered V_2O_5 nanowires grown by physical vapor deposition. <i>Nanoscale Research Letters</i> , 2013, 8, 443. | 5.7 | 37 |
| 4 | PbI ₂ Single Crystal Growth and Its Optical Property Study. <i>Crystals</i> , 2019, 9, 589. | 2.2 | 28 |
| 5 | Growth and Characterization of Well-Aligned RuO_2 Nanocrystals on Oxide Substrates via Reactive Sputtering. <i>Crystal Growth and Design</i> , 2006, 6, 2501-2506. | 3.0 | 22 |
| 6 | Temperature dependences of energies and broadening parameters of the band-edge excitons of Re-doped WS_2 and 2H-WS_2 single crystals. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6995-7005. | 1.8 | 19 |
| 7 | Raman scattering characterization of well-aligned RuO_2 nanocrystals grown on sapphire substrates. <i>New Journal of Physics</i> , 2007, 9, 130-130. | 2.9 | 19 |
| 8 | Above-room-temperature photoluminescence from a strain-compensated $\text{Ge/Si}_{0.15}\text{Ge}_{0.85}$ multiple-quantum-well structure. <i>Applied Physics Letters</i> , 2012, 100, . | 3.3 | 18 |
| 9 | Optical and electrical transport properties of ZnO/MoS_2 heterojunction p-n structure. <i>Materials Chemistry and Physics</i> , 2018, 220, 433-440. | 4.0 | 16 |
| 10 | Optical properties of tungsten disulfide single crystals doped with gold. <i>Materials Chemistry and Physics</i> , 2008, 111, 475-479. | 4.0 | 13 |
| 11 | Effect of Lithium Doping on Microstructural and Optical Properties of ZnO Nanocrystalline Films Prepared by the Sol-Gel Method. <i>Crystals</i> , 2018, 8, 228. | 2.2 | 13 |
| 12 | Doping with Nb enhances the photoresponsivity of WSe_2 thin sheets. <i>AIP Advances</i> , 2018, 8, . | 1.3 | 13 |
| 13 | Optical characterization of $\text{Cd}_{1-x}\text{Be}_x\text{Zn}_y\text{Se}$ mixed crystals. <i>Journal of Applied Physics</i> , 2007, 101, 103539. | 2.5 | 11 |
| 14 | Raman scattering characterization of well-aligned IrO_2 nanocrystals grown on sapphire substrates via reactive sputtering. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 1411-1415. | 2.5 | 10 |
| 15 | Deposition and characterization of 1D RuO_2 nanocrystals by reactive sputtering. <i>Journal of Alloys and Compounds</i> , 2007, 442, 310-312. | 5.5 | 10 |
| 16 | Optical studies of type-I $\text{GaAs}_{1-x}\text{Sb}_x/\text{GaAs}$ multiple quantum well structures. <i>Journal of Applied Physics</i> , 2009, 105, 123523. | 2.5 | 10 |
| 17 | Photoluminescence and surface photovoltage spectroscopy characterization of highly strained InGaAs/GaAs quantum well structures grown by metal organic vapor phase epitaxy. <i>Materials Chemistry and Physics</i> , 2010, 124, 1126-1133. | 4.0 | 9 |
| 18 | Observation of spontaneous ordering in the optoelectronic material GaInNP . <i>Applied Physics Letters</i> , 2004, 84, 1299-1301. | 3.3 | 8 |

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|----|---|-----|-----------|
| 19 | Well-Aligned IrO_2/GaAs Multiple Quantum Wells on GaAs Substrates by Gas-Source Molecular Beam Epitaxy. Journal of Nanomaterials, 2007, 2007, 1-17. | | |
| 20 | Optical study of GaAs $_{1-x}$ Sb layers grown on GaAs substrates by gas-source molecular beam epitaxy. Materials Chemistry and Physics, 2010, 124, 558-562. | 4.0 | 7 |
| 21 | Modulation spectroscopy study of the effects of growth interruptions on the interfaces of GaAsSb/GaAs multiple quantum wells. Journal of Physics Condensed Matter, 2006, 18, 5927-5935. | 1.8 | 6 |
| 22 | The structural and optical characterization of a new class of dilute nitride compound semiconductors: GaInNP. Journal of Physics Condensed Matter, 2004, 16, S3245-S3256. | 1.8 | 5 |
| 23 | Piezoreflectance and contactless electroreflectance spectra of an optoelectronic material: GaInNP grown on GaAs substrates. Journal of Crystal Growth, 2004, 264, 357-362. | 1.5 | 5 |
| 24 | Photoluminescence and photoreflectance study of annealing effects on GaAs $_{0.909}$ Sb $_{0.07}$ N $_{0.021}$ layer grown by gas-source molecular beam epitaxy. Journal of Applied Physics, 2008, 103, 113508. | 2.5 | 5 |
| 25 | Thermal effect on the electroluminescence of InGaN/GaN multiquantum-well light-emitting devices. Solid-State Electronics, 2012, 68, 63-67. | 1.4 | 5 |
| 26 | The study of temperature dependent strain in Ge epilayer with SiGe/Ge buffer layer on Si substrate with different thickness. Applied Physics Letters, 2014, 104, 241605. | 3.3 | 5 |
| 27 | High Optical Response of Niobium-Doped WSe $_2$ -Layered Crystals. Materials, 2019, 12, 1161. | 2.9 | 5 |
| 28 | Temperature Dependent Excitonic Transition Energy and Enhanced Electron-Phonon Coupling in Layered Ternary SnS $_2$ -xSex Semiconductors with Fully Tunable Stoichiometry. Molecules, 2021, 26, 2184. | 3.8 | 5 |
| 29 | Characterization of the structural and optical properties of CuIn $_{1-x}$ Ga $_x$ Se $_2$ QJ;thin films by X-ray diffraction. Journal of Luminescence, 2013, 142, 81-85. | 3.1 | 4 |
| 30 | The structural and material properties of Cu(In,Ga)Se $_2$ thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1388-1391. | 0.8 | 3 |
| 31 | Optical Characterization and Photovoltaic Performance Evaluation of GaAs p-i-n Solar Cells with Various Metal Grid Spacings. Crystals, 2019, 9, 170. | 2.2 | 3 |
| 32 | Evidence of Nitrogen Reorganization in GaAsSbN Alloys. Japanese Journal of Applied Physics, 2012, 51, 022605. | 1.5 | 2 |
| 33 | Photoreflectance Spectroscopy Characterization of Ge/Si $_{0.16}$ Ge $_{0.84}$ Multiple Quantum Wells on Ge Virtual Substrate. Advances in Condensed Matter Physics, 2013, 2013, 1-6. | 1.1 | 2 |
| 34 | Deposition and structural characterization of nanostructured RuO $_2$ on rutile-TiO $_2$ /sapphire(100) templates by reactive radio frequency magnetron sputtering. Thin Solid Films, 2012, 520, 2810-2813. | 1.8 | 1 |
| 35 | Characterization of Ge/Si $_{0.16}$ Ge $_{0.84}$ multiple quantum wells on Ge-on-Si virtual substrate using piezoreflectance spectroscopy. Solid State Communications, 2013, 167, 5-9. | 1.9 | 1 |
| 36 | Device characteristics of GaAs-based heterojunction bipolar transistors using an InGaAs/GaAsP strain-compensated layer as a base material. Semiconductor Science and Technology, 2004, 19, 828-832. | 2.0 | 0 |

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|----|--|-----|-----------|
| 37 | Growth and Characterization of Well-Aligned RuO ₂ /TiO ₂ Heteronanostructures on Sapphire (100) Substrates by Reactive Magnetron Sputtering. Solid State Phenomena, 0, 170, 78-82. | 0.3 | 0 |
| 38 | Raman scattering characterization of Zn _{1-x} Mg _y Be _x Se mixed crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1752-1755. | 0.8 | 0 |
| 39 | Optical characterization of Zn _{0.35} Cd _{0.44} Mg _{0.21} Se crystalline alloy by polarization-dependent contactless electroreflectance measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1756-1759. | 0.8 | 0 |
| 40 | Growth of ZnO and indium-doped ZnO structures for dye-sensitized solar cells. , 2016, , . | | 0 |
| 41 | Humidity Sensing and Photodetection Based on Tin Disulfide Nanosheets. Crystals, 2021, 11, 1028. | 2.2 | 0 |