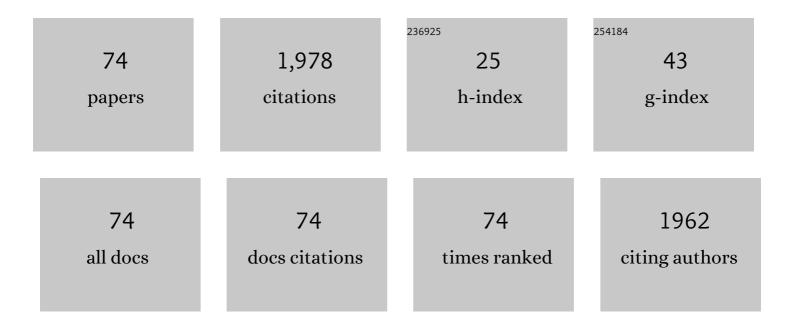
Xiaoyuan Hou

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4532009/publications.pdf Version: 2024-02-01



ΧιλογιιλΝ Ηου

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Real-Time Observation of Temperature Rise and Thermal Breakdown Processes in Organic LEDs Using an IR Imaging and Analysis System. Advanced Materials, 2000, 12, 265-269. | 21.0 | 178 |
| 2 | Study of the Raman peak shift and the linewidth of lightâ€emitting porous silicon. Journal of Applied Physics, 1994, 75, 651-653. | 2.5 | 128 |
| 3 | Carrier density dependence of mobility in organic solids: A Monte Carlo simulation. Physical Review B, 2007, 75, . | 3.2 | 96 |
| 4 | Degradation of small-molecule organic solar cells. Applied Physics Letters, 2006, 89, 251118. | 3.3 | 86 |
| 5 | Large blue shift of light emitting porous silicon by boiling water treatment. Applied Physics Letters, 1993, 62, 1097-1098. | 3.3 | 82 |
| 6 | Buffer-layer-induced barrier reduction: Role of tunneling in organic light-emitting devices. Applied Physics Letters, 2004, 84, 425-427. | 3.3 | 80 |
| 7 | Dual role of LiF as a hole-injection buffer in organic light-emitting diodes. Applied Physics Letters, 2004, 84, 2913-2915. | 3.3 | 72 |
| 8 | Enhancement of electron injection in organic light-emitting devices using an Ag/LiF cathode. Journal of Applied Physics, 2004, 95, 3828-3830. | 2.5 | 67 |
| 9 | Role of buffer in organic solar cells using C60 as an acceptor. Applied Physics Letters, 2007, 90, 071109. | 3.3 | 65 |
| 10 | S2Cl2 treatment: A new sulfur passivation method of GaAs surface. Applied Physics Letters, 1994, 64, 3425-3427. | 3.3 | 64 |
| 11 | Electron blocking and hole injection: The role of N,N′-Bis(naphthalen-1-y)-N,N′-bis(phenyl)benzidine in organic light-emitting devices. Applied Physics Letters, 2004, 84, 2916-2918. | 3.3 | 64 |
| 12 | Electrochemical sulfur passivation of GaAs. Applied Physics Letters, 1992, 60, 2252-2254. | 3.3 | 60 |
| 13 | Critical conditions for achieving blue light emission from porous silicon. Applied Physics Letters, 1993, 63, 2363-2365. | 3.3 | 52 |
| 14 | Molecularâ€beamâ€epitaxy growth of GaN on GaAs(100) by using reactive nitrogen source. Applied Physics Letters, 1994, 64, 315-317. | 3.3 | 52 |
| 15 | Role of hole playing in improving performance of organic light-emitting devices with an Al2O3 layer inserted at the cathode-organic interface. Applied Physics Letters, 2006, 89, 043502. | 3.3 | 52 |
| 16 | Passivation of porous silicon by wet thermal oxidation. Journal of Applied Physics, 1996, 79, 3282-3285. | 2.5 | 45 |
| 17 | Exciton dissociation at the indium tin oxide-N,N′-Bis(naphthalen-1-yl)-N,N′-bis(phenyl) benzidine interface: A transient photovoltage study. Applied Physics Letters, 2006, 88, 232101. | 3.3 | 41 |
| 18 | Sodium stearate, an effective amphiphilic molecule buffer material between organic and metal layers in organic light-emitting devices. Applied Physics Letters, 2003, 83, 1656-1658. | 3.3 | 39 |

Χιαογύαν Ηου

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Energy band lineup at the porousâ€silicon/silicon heterointerface measured by electron spectroscopy. Applied Physics Letters, 1994, 64, 3602-3604. | 3.3 | 36 |
| 20 | Aggregation and permeation of 4-(dicyanomethylene)-2-methyl-6-(p-dimethylaminostyryl)-4H-pyran molecules in Alq. Applied Physics Letters, 2002, 81, 1122-1124. | 3.3 | 36 |
| 21 | Passivation of lightâ€emitting porous silicon by rapid thermal treatment in NH3. Journal of Applied Physics, 1996, 80, 5967-5970. | 2.5 | 34 |
| 22 | Exciton Dissociation in Organic Light Emitting Diodes at the Donor-Acceptor Interface. Physical Review Letters, 2007, 98, 176403. | 7.8 | 34 |
| 23 | Conductance-dependent negative differential resistance in organic memory devices. Applied Physics Letters, 2010, 97, 233301. | 3.3 | 30 |
| 24 | From nanowires to nanoislands: Morphological evolutions of erbium silicide nanostructures formed on the vicinal Si(001) surface. Journal of Applied Physics, 2006, 100, 114312. | 2.5 | 27 |
| 25 | Structural enhancement mechanism of field emission from multilayer semiconductor films. Physical Review B, 2005, 72, . | 3.2 | 26 |
| 26 | Enabling Self-passivation by Attaching Small Grains on Surfaces of Large Grains toward High-Performance Perovskite LEDs. IScience, 2019, 19, 378-387. | 4.1 | 26 |
| 27 | Delayed-switch-on effect in metal-insulator-metal organic memories. Applied Physics Letters, 2007, 91, 143511. | 3.3 | 25 |
| 28 | Magnetic field effects on the electroluminescence of organic light emitting devices: A tool to indicate the carrier mobility. Applied Physics Letters, 2010, 97, 163302. | 3.3 | 24 |
| 29 | A mild electrochemical sulfur passivation method for GaAs(100) surfaces. Journal of Applied Physics, 1995, 78, 2764-2766. | 2.5 | 21 |
| 30 | Magnetic field modulated exciton generation in organic semiconductors: An intermolecular quantum correlated effect. Physical Review B, 2010, 82, . | 3.2 | 20 |
| 31 | Amplified Spontaneous Emission Realized by Cogrowing Large/Small Grains with Selfâ€Passivating Defects and Aligning Transition Dipoles. Advanced Optical Materials, 2019, 7, 1900345. | 7.3 | 19 |
| 32 | Interfacial reactions at Al/LiF and LiF/Al. Applied Physics Letters, 2009, 94, . | 3.3 | 18 |
| 33 | Passivation of GaAs surface by sulfur glow discharge. Applied Physics Letters, 1996, 69, 1429-1431. | 3.3 | 17 |
| 34 | Dissociation of excitons in the C60 film studied by transient photovoltage measurements. Applied Physics Letters, 2008, 93, . | 3.3 | 16 |
| 35 | Electroluminescence and magnetoresistance of the organic light-emitting diode with a La0.7Sr0.3MnO3 anode. Applied Physics Letters, 2008, 93, 183307. | 3.3 | 16 |
| 36 | A combined theoretical and experimental investigation on the transient photovoltage in organic photovoltaic cells. Applied Physics Letters, 2010, 96, . | 3.3 | 16 |

Χιαογμαν Ηου

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Raman scattering characterization of the crystalline qualities of ZnSe films grown on Sâ€passivated GaAs(100) substrates. Applied Physics Letters, 1995, 67, 2043-2045. | 3.3 | 15 |
| 38 | The dissociation of excitons at indium tin oxide-copper phthalocyanine interface in organic solar cells. Journal of Applied Physics, 2008, 104, 103702. | 2.5 | 15 |
| 39 | Using Magneto-Electroluminescence As a Fingerprint to Identify the Carrier-to-Photon Conversion Process in Dye-Doped OLEDs. Journal of Physical Chemistry C, 2011, 115, 20295-20300. | 3.1 | 13 |
| 40 | Field-induced evolution of metallic nano-tips in indium tin oxide-tris-(8-hydroxyquinoline) aluminum-aluminum device. Applied Physics Letters, 2012, 100, 123304. | 3.3 | 13 |
| 41 | Growth and optical characterization of diluted magnetic semiconductor Zn1â ^{~,} xMnxSe/ZnSe strained-layer superlattices. Journal of Applied Physics, 1997, 81, 5148-5150. | 2.5 | 11 |
| 42 | The structural, chemical, and electronic properties of a stable GaS/GaAs interface. Journal of Applied Physics, 1999, 86, 6940-6944. | 2.5 | 11 |
| 43 | Field emission enhancement by the quantum structure in an ultrathin multilayer planar cold cathode. Applied Physics Letters, 2008, 92, 142102. | 3.3 | 11 |
| 44 | Memory Devices via Unipolar Resistive Switching in Symmetric Organic–Inorganic Perovskite Nanoscale Heterolayers. ACS Applied Nano Materials, 2020, 3, 11889-11896. | 5.0 | 11 |
| 45 | Photoinduced Injection Enhancement in Fullerene-Based Organic Solar Cell Originates from Exciton–Electron Interaction. Journal of Physical Chemistry C, 2014, 118, 11928-11934. | 3.1 | 10 |
| 46 | Phonon modes of ZnS1â^'xTex alloys epitaxially grown on (100) GaAs substrates. Journal of Applied Physics, 1997, 81, 3465-3467. | 2.5 | 9 |
| 47 | Photoluminescence from C+-implanted SiNxOy films grown on crystalline silicon. Applied Physics Letters, 1997, 71, 2193-2195. | 3.3 | 9 |
| 48 | Determination of capacitance-voltage characteristics of organic semiconductor devices by combined current-voltage and voltage decay measurements. Science China Technological Sciences, 2011, 54, 826-829. | 4.0 | 9 |
| 49 | Interfacial processes in small molecule organic solar cells. Science China: Physics, Mechanics and Astronomy, 2010, 53, 288-300. | 5.1 | 8 |
| 50 | Highly Efficient Charge Collection in Bulk-Heterojunction Organic Solar Cells by Anomalous Hole Transfer and Improved Interfacial Contact. ACS Applied Materials & Interfaces, 2018, 10, 28256-28261. | 8.0 | 8 |
| 51 | Blue Light Emission from Porous Silicon. Materials Research Society Symposia Proceedings, 1992, 283, 89. | 0.1 | 6 |
| 52 | Photoemission study of C60-induced barrier reduction for hole injection at N, N′-bis(naphthalene-1-y1)-N, N′-bis(phenyl) benzidine/Al. Journal of Applied Physics, 2009, 105, 106105. | 2.5 | 6 |
| 53 | Multipeak characteristics of field emission energy distribution from semiconductors. Physical Review B, 2004, 70, . | 3.2 | 5 |
| 54 | Capacitance measurements to directly investigate exciton behaviors in organic photovoltaic materials. Journal Physics D: Applied Physics, 2015, 48, 455108. | 2.8 | 5 |

Χιαογμαν Ηου

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | TOP-electrode-eliminated organic bi-stable devices and their two switching modes in different atmospheres. Organic Electronics, 2015, 22, 127-131. | 2.6 | 5 |
| 56 | Experimental evidence of harmful exciton dissociation at MoO3/CuPc interface in OPV. Journal of Applied Physics, 2016, 120, 145501. | 2.5 | 5 |
| 57 | Bias-dependent interface roughening and its effect on electric bistability of organic devices. Applied Physics Letters, 2014, 104, 011603. | 3.3 | 4 |
| 58 | Obvious efficiency enhancement of organic light-emitting diodes by parylene-N buffer layer. Applied Physics Letters, 2012, 100, 163303. | 3.3 | 3 |
| 59 | Enhanced surface losses of organic solar cells induced by efficient polaron pair dissociation at the metal/organic interface. Journal of Applied Physics, 2012, 112, 034510. | 2.5 | 3 |
| 60 | Transient photovoltage study on the dynamics of excitons and carriers in tris-(8-hydroxyquinolinato)aluminum. Journal of Applied Physics, 2014, 116, 153704. | 2.5 | 3 |
| 61 | Sulfurized Passivation of GaAs (100) Surfaces. Materials Research Society Symposia Proceedings, 1992, 284, 607. | 0.1 | 2 |
| 62 | Photoinduced charge injection in the metal/organic interface studied by transient photovoltage measurements with bias. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2012-2015. | 5.1 | 2 |
| 63 | In situ observation of structure and electrical property changes of a Ga-doped ZnO/graphene flexible transparent electrode during deformation. Applied Physics Letters, 2014, 104, 221907. | 3.3 | 2 |
| 64 | Square wave voltages-induced ON states of organic resistive memory devices. Applied Physics Letters, 2016, 109, 153303. | 3.3 | 2 |
| 65 | Recovery of electroluminescence in electron-only organic light-emitting diode by inserting a thin MoO3 layer at Bphen/NPB interface. AlP Advances, 2019, 9, . | 1.3 | 2 |
| 66 | Quantitative C-V study of the electric-field-assisted generation of mobile holes. Journal of Applied Physics, 2019, 126, 204501. | 2.5 | 2 |
| 67 | Transient photovoltage and photoluminescence study of exciton dissociation at indium tin oxide/pentacene interface. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1112-1115. | 5.1 | 1 |
| 68 | Large enhancement of transient photovoltage induced by the absorption of the metal Al. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1240-1244. | 5.1 | 1 |
| 69 | Field-dependent, organics assistant filamentary mechanism in both vertical and planar organic memories. Organic Electronics, 2018, 53, 83-87. | 2.6 | 1 |
| 70 | Tristep Mechanism To Explain the Illuminated <i>C</i> – <i>V</i> Characteristic of an Organic Device. Journal of Physical Chemistry C, 2019, 123, 17384-17389. | 3.1 | 1 |
| 71 | Lateral magnetoresistances of epitaxial ZnSe and CdMnTe thin films measured by the microwave contactless method. Journal of Applied Physics, 1997, 82, 477-479. | 2.5 | 0 |
| 72 | Photoluminescence from Si-based SiNxOy films. Science Bulletin, 1998, 43, 124-126. | 1.7 | 0 |

| # | Article | IF | CITATIONS |
|----|--|----|-----------|
| 73 | Anomalous Hole-Transfer and Heterogeneous Interfacial Contact Effect in Bulk-Heterojunction Organic Solar Cells. , 0, , . | | Ο |
| 74 | Anomalous Hole-Transfer and Heterogeneous Interfacial Contact Effect in Bulk-Heterojunction Organic Solar Cells. , 0, , . | | 0 |