Paul W Leu

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Coal-Derived Functionalized Nano-Graphene Oxide for Bleach Washable, Durable Antiviral Fabric Coatings. ACS Applied Nano Materials, 2022, 5, 718-728. | 2.4 | 16 |
| 2 | Mechanically durable, super-repellent 3D printed microcell/nanoparticle surfaces. Nano Research, 2022, 15, 5678-5686. | 5.8 | 6 |
| 3 | Surface nanostructuring of alkali-aluminosilicate Gorilla display glass substrates using a maskless process. Nanotechnology, 2022, 33, 245301. | 1.3 | 2 |
| 4 | Detailed balance analysis of vertical GaAs nanowire array solar cells: exceeding the Shockley Queisser limit. Optics Express, 2022, 30, 16145. | 1.7 | 2 |
| 5 | Achieving Highly Conductive, Stretchable, and Washable Fabric from Reactive Silver Ink and Increased Interfacial Adhesion. ACS Applied Polymer Materials, 2022, 4, 5253-5260. | 2.0 | 10 |
| 6 | Polymer-Embedded Silver Microgrids by Particle-Free Reactive Inks for Flexible High-Performance Transparent Conducting Electrodes. ACS Applied Electronic Materials, 2021, 3, 2079-2086. | 2.0 | 14 |
| 7 | Solar module orientation and tracking type performance and optimization. Journal of Photonics for Energy, 2021, 11, . | 0.8 | 1 |
| 8 | Challenges and Prospects of Bio-Inspired and Multifunctional Transparent Substrates and Barrier Layers for Optoelectronics. ACS Nano, 2020, 14, 16241-16265. | 7.3 | 27 |
| 9 | Identification of Efficient Active Sites in Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2020, 124, 8689-8696. | 1.5 | 27 |
| 10 | Superhemophobic and Antivirofouling Coating for Mechanically Durable and Wash-Stable Medical Textiles. ACS Applied Materials & Interfaces, 2020, 12, 22120-22128. | 4.0 | 45 |
| 11 | Discovering high-performance broadband and broad angle antireflection surfaces by machine learning. Optica, 2020, 7, 784. | 4.8 | 13 |
| 12 | Parahydrophobicity and stick-slip wetting dynamics of vertically aligned carbon nanotube forests. Carbon, 2019, 152, 474-481. | 5.4 | 16 |
| 13 | Stain-resistant, superomniphobic flexible optical plastics based on nano-enoki mushroom-like structures. Journal of Materials Chemistry A, 2019, 7, 15698-15706. | 5.2 | 19 |
| 14 | Creating glasswing butterfly-inspired durable antifogging superomniphobic supertransmissive, superclear nanostructured glass through Bayesian learning and optimization. Materials Horizons, 2019, 6, 1632-1642. | 6.4 | 34 |
| 15 | Fundamental Performance Limits and Haze Evaluation of Metal Nanomesh Transparent Conductors. Advanced Optical Materials, 2018, 6, 1700829. | 3.6 | 18 |
| 16 | Critical heat flux enhancement in pool boiling through increased rewetting on nanopillar array surfaces. Scientific Reports, 2018, 8, 4815. | 1.6 | 24 |
| 17 | Stable lotus leaf-inspired hierarchical, fluorinated polypropylene surfaces for reduced bacterial adhesion. Reactive and Functional Polymers, 2018, 128, 40-46. | 2.0 | 27 |
| 18 | Flexible nanograss with highest combination of transparency and haze for optoelectronic plastic substrates. Nanotechnology, 2018, 29, 42LT01. | 1.3 | 10 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|
| 19 | Self-cleaning, high transmission, near unity haze OTS/silica nanostructured glass. Journal of Materials Chemistry C, 2018, 6, 9191-9199. | 2.7 | 23 |
| 20 | Frontside scattering structures for enhanced performance in flexible ultrathin crystalline silicon solar cells. Journal of Photonics for Energy, 2018, 8, 1. | 0.8 | 0 |
| 21 | Novel Carrier Doping Mechanism for Transparent Conductor: Electron Donation from Embedded Ag Nanoparticles to the Oxide Matrix. ACS Applied Materials & Interfaces, 2017, 9, 19973-19979. | 4.0 | 12 |
| 22 | Plasmonic nanomesh sandwiches for ultrathin film silicon solar cells. Journal of Optics (United) Tj ETQq0 0 0 rgB | Г /Qverlock 1.0 | ₹ 10 Tf 50 62 |

| 23 | Ultrahigh-transparency, ultrahigh-haze nanograss glass with fluid-induced switchable haze. Optica, 2017, 4, 1522. | 4.8 | 30 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 24 | Engineering inverse woodpile and woodpile photonic crystal solar cells for light trapping. Nanotechnology, 2016, 27, 225404. | 1.3 | 4 |
| 25 | Broadband light absorption enhancement in ultrathin film crystalline silicon solar cells with high index of refraction nanosphere arrays. Nano Energy, 2016, 19, 471-475. | 8.2 | 40 |
| 26 | Scalable Fabrication of Metal Oxide Functional Materials and Their Applications in High-Temperature Optical Sensing. Jom, 2015, 67, 53-58. | 0.9 | 10 |
| 27 | High index of refraction nanosphere coatings for light trapping in crystalline silicon thin film solar cells. Nano Energy, 2015, 13, 226-232. | 8.2 | 37 |
| 28 | Hierarchical Graphene/Metal Grid Structures for Stable, Flexible Transparent Conductors. ACS Nano, 2015, 9, 5440-5446. | 7.3 | 65 |
| 29 | Hierarchical metal nanomesh/microgrid structures for high performance transparent electrodes. RSC Advances, 2015, 5, 70713-70717. | 1.7 | 22 |
| 30 | Comparative study of absorption in tilted silicon nanowire arrays for photovoltaics. Nanoscale Research Letters, 2014, 9, 620. | 3.1 | 14 |
| 31 | Strong broadband absorption in GaAs nanocone and nanowire arrays for solar cells. Optics Express, 2014, 22, A386. | 1.7 | 55 |
| 32 | Designing metal hemispheres on silicon ultrathin film solar cells for plasmonic light trapping. Optics Letters, 2014, 39, 4647. | 1.7 | 25 |
| 33 | Uniform and Ordered Copper Nanomeshes by Microsphere Lithography for Transparent Electrodes. Nano Letters, 2014, 14, 2105-2110. | 4.5 | 120 |
| 34 | Synergistic effect of surface plasmonic particles in PbS/TiO2 heterojunction solar cells. Solar Energy Materials and Solar Cells, 2014, 128, 386-393. | 3.0 | 10 |
| 35 | Rational geometrical design of multi-diameter nanopillars for efficient light harvesting. Nano Energy, 2013, 2, 951-957. | 8.2 | 57 |
| 36 | Copper nanowire arrays for transparent electrodes. Journal of Applied Physics, 2013, 114, . | 1.1 | 14 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | The role of propagating modes in silver nanowire arrays for transparent electrodes. Optics Express, 2013, 21, A419. | 1.7 | 16 |
| 38 | Tunable and selective resonant absorption in vertical nanowires. Optics Letters, 2012, 37, 3756. | 1.7 | 134 |
| 39 | Enhanced absorption in silicon nanocone arrays for photovoltaics. Nanotechnology, 2012, 23, 194003. | 1.3 | 120 |
| 40 | COMPUTATIONAL SIMULATIONS OF NANOSTRUCTURED SOLAR CELLS. Nano LIFE, 2012, 02, 1230007. | 0.6 | 3 |
| 41 | Ultrathin compound semiconductor on insulator layers for high-performance nanoscale transistors. Nature, 2010, 468, 286-289. | 13.7 | 373 |
| 42 | Nanowire active-matrix circuitry for low-voltage macroscale artificial skin. Nature Materials, 2010, 9, 821-826. | 13.3 | 1,162 |
| 43 | Group IV semiconductor nanowire arrays: epitaxy in different contexts. Semiconductor Science and Technology, 2010, 25, 024016. | 1.0 | 13 |
| 44 | Ordered Arrays of Dual-Diameter Nanopillars for Maximized Optical Absorption. Nano Letters, 2010, 10, 3823-3827. | 4.5 | 269 |
| 45 | Vertical Germanium Nanowire Arrays in Microfluidic Channels for Charged Molecule Detection. Journal of the Electrochemical Society, 2009, 156, K11. | 1.3 | 17 |
| 46 | Nanoscale doping of InAs via sulfur monolayers. Applied Physics Letters, 2009, 95, . | 1.5 | 71 |
| 47 | Challenges and prospects of nanopillar-based solar cells. Nano Research, 2009, 2, 829. | 5.8 | 223 |
| 48 | Three-dimensional nanopillar-array photovoltaics on low-cost and flexible substrates. Nature Materials, 2009, 8, 648-653. | 13.3 | 997 |
| 49 | Single-crystal germanium layers grown on silicon by nanowire seeding. Nature Nanotechnology, 2009, 4, 649-653. | 15.6 | 43 |
| 50 | Hybrid Coreâ^'Shell Nanowire Forests as Self-Selective Chemical Connectors. Nano Letters, 2009, 9, 2054-2058. | 4.5 | 59 |
| 51 | Oxide-encapsulated vertical germanium nanowire structures and their DC transport properties. Nanotechnology, 2008, 19, 485705. | 1.3 | 12 |
| 52 | <i>Ab initio</i> calculations of the mechanical and electronic properties of strained Si nanowires. Physical Review B, 2008, 77, . | 1.1 | 130 |
| 53 | Effect of growth orientation and surface roughness on electron transport in silicon nanowires. Physical Review B, 2007, 75, . | 1.1 | 79 |
| 54 | Surface chemical control of the electronic structure of silicon nanowires: Density functional calculations. Physical Review B, 2006, 73, . | 1.1 | 109 |