

Yu-Ming Liao

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,395
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331670

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345221

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all docs

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docs citations

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times ranked

2176
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Enhancing the Photoelectrochemical Hydrogen Evolution Reaction through Nanoscrolling of Two-Dimensional Material Heterojunctions. ACS Nano, 2022, 16, 5743-5751. | 14.6 | 21 |
| 2 | Anderson Localization Enabled Spectrally Stable Deep-Ultraviolet Laser Based on Metallic Nanoparticle Decorated AlGa _N Multiple Quantum Wells. ACS Nano, 2021, 15, 330-337. | 14.6 | 4 |
| 3 | Generation of Silver Metal Nanocluster Random Lasing. ACS Photonics, 2021, 8, 3051-3060. | 6.6 | 9 |
| 4 | Highly Efficient Photodetection in Metal Nanocluster/Graphene Heterojunctions. ACS Photonics, 2021, 8, 2955-2965. | 6.6 | 9 |
| 5 | A Transferrable, Adaptable, Free-Standing, and Water-Resistant Hyperbolic Metamaterial. ACS Applied Materials & Interfaces, 2021, 13, 49224-49231. | 8.0 | 3 |
| 6 | Integration of Nanoscale and Macroscale Graphene Heterostructures for Flexible and Multilevel Nonvolatile Photoelectronic Memory. ACS Applied Nano Materials, 2020, 3, 608-616. | 5.0 | 16 |
| 7 | 3D Printed Random Lasers. Advanced Materials Technologies, 2020, 5, 1900742. | 5.8 | 12 |
| 8 | Coherent Förster resonance energy transfer: A new paradigm for electrically driven quantum dot random lasers. Science Advances, 2020, 6, . | 10.3 | 21 |
| 9 | Multifunctional Random-Laser Smart Inks. ACS Applied Materials & Interfaces, 2020, 12, 49122-49129. | 8.0 | 18 |
| 10 | QD/2D Hybrid Nanoscrolls: A New Class of Materials for High-Performance Polarized Photodetection and Ultralow Threshold Laser Action. Small, 2020, 16, e2003944. | 10.0 | 14 |
| 11 | Ultralow Threshold Cavity-Free Laser Induced by Total Internal Reflection. ACS Omega, 2020, 5, 18551-18556. | 3.5 | 4 |
| 12 | Intrinsic Ultralow-Threshold Laser Action from Rationally Molecular Design of Metal-Organic Framework Materials. ACS Applied Materials & Interfaces, 2020, 12, 36485-36495. | 8.0 | 20 |
| 13 | Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 26213-26221. | 8.0 | 14 |
| 14 | Graphene-Insulator-Semiconductor Ultraviolet Light-Responsive Nitride LEDs for Multi-Applications. ACS Applied Electronic Materials, 2020, 2, 2104-2112. | 4.3 | 1 |
| 15 | Excess Random Laser Action in Memories for Hybrid Optical/Electric Logic. ACS Applied Electronic Materials, 2020, 2, 954-961. | 4.3 | 4 |
| 16 | Self-Powered, Self-Healed, and Shape-Adaptive Ultraviolet Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 9755-9765. | 8.0 | 34 |
| 17 | Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. ACS Applied Materials & Interfaces, 2020, 12, 19840-19854. | 8.0 | 21 |
| 18 | Photoelectronic memory based on nitride multiple quantum wells and the hybrid of graphene nanoflakes and a-IGZO film. Optics Express, 2020, 28, 13542. | 3.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Printed Random Lasers. , 2020, , . | | 0 |
| 20 | Self-Healing Nanophotonics: Robust and Soft Random Lasers. ACS Nano, 2019, 13, 8977-8985. | 14.6 | 14 |
| 21 | Heavy Mediator at Quantum Dot/Graphene Heterojunction for Efficient Charge Carrier Transfer: Alternative Approach for High-Performance Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 26518-26527. | 8.0 | 14 |
| 22 | Ultrahighly Photosensitive and Highly Stretchable Rippled Structure Photodetectors Based on Perovskite Nanocrystals and Graphene. ACS Applied Electronic Materials, 2019, 1, 1517-1526. | 4.3 | 11 |
| 23 | Graphene Sandwich Stable Perovskite Quantum-Dot Light-Emissive Ultrasensitive and Ultrafast Broadband Vertical Phototransistors. ACS Nano, 2019, 13, 12540-12552. | 14.6 | 69 |
| 24 | Sn-Doping Enhanced Ultrahigh Mobility In _{1-x} Sn _x Se Phototransistor. ACS Applied Materials & Interfaces, 2019, 11, 24269-24278. | 8.0 | 17 |
| 25 | An ultra-fast two-terminal organic phototransistor with vertical topology for information technologies. Applied Physics Letters, 2019, 114, . | 3.3 | 7 |
| 26 | Hybrid Optical/Electric Memristor for Light-Based Logic and Communication. ACS Applied Materials & Interfaces, 2019, 11, 4649-4653. | 8.0 | 22 |
| 27 | Low-Threshold Lasing from 2D Homologous Organic-Inorganic Hybrid Ruddlesden-Popper Perovskite Single Crystals. Nano Letters, 2018, 18, 3221-3228. | 9.1 | 177 |
| 28 | A White Random Laser. Scientific Reports, 2018, 8, 2720. | 3.3 | 65 |
| 29 | Plasmonic Carbon-Dot-Decorated Nanostructured Semiconductors for Efficient and Tunable Random Laser Action. ACS Applied Nano Materials, 2018, 1, 152-159. | 5.0 | 22 |
| 30 | Integration of Nanoscale Light Emitters and Hyperbolic Metamaterials: An Efficient Platform for the Enhancement of Random Laser Action. ACS Photonics, 2018, 5, 718-727. | 6.6 | 34 |
| 31 | Ultrahigh Sensitive and Flexible Magneto-electronics with Magnetic Nanocomposites: Toward an Additional Perception of Artificial Intelligence. ACS Applied Materials & Interfaces, 2018, 10, 17393-17400. | 8.0 | 34 |
| 32 | Transparent, Wearable, Broadband, and Highly Sensitive Upconversion Nanoparticles and Graphene-Based Hybrid Photodetectors. ACS Photonics, 2018, 5, 2336-2347. | 6.6 | 59 |
| 33 | All Organic Label-like Copper(II) Ions Fluorescent Film Sensors with High Sensitivity and Stretchability. ACS Sensors, 2018, 3, 99-105. | 7.8 | 11 |
| 34 | A Highly-Efficient Single Segment White Random Laser. ACS Nano, 2018, 12, 11847-11859. | 14.6 | 51 |
| 35 | Trapped Photons Induced Ultrahigh External Quantum Efficiency and Photoresponsivity in Hybrid Graphene/Metal-Organic Framework Broadband Wearable Photodetectors. Advanced Functional Materials, 2018, 28, 1804802. | 14.9 | 59 |
| 36 | Highly Sensitive, Visible Blind, Wearable, and Omnidirectional Near-Infrared Photodetectors. ACS Nano, 2018, 12, 9596-9607. | 14.6 | 62 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Inkjet-Printed Random Lasers. <i>Advanced Materials Technologies</i> , 2018, 3, 1800214. | 5.8 | 20 |
| 38 | Ultra-high performance flexible piezopotential gated In _{1-x} Sn _x Se phototransistor. <i>Nanoscale</i> , 2018, 10, 18642-18650. | 5.6 | 13 |
| 39 | Transient and Flexible Photodetectors. <i>ACS Applied Nano Materials</i> , 2018, 1, 5092-5100. | 5.0 | 22 |
| 40 | Multicolor Ultralow-Threshold Random Laser Assisted by Vertical-Graphene Network. <i>Advanced Optical Materials</i> , 2018, 6, 1800382. | 7.3 | 35 |
| 41 | All-marine based random lasers. <i>Organic Electronics</i> , 2018, 62, 209-215. | 2.6 | 18 |
| 42 | Random Lasers: Multicolor Ultralow-Threshold Random Laser Assisted by Vertical-Graphene Network (Advanced Optical Materials 16/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870063. | 7.3 | 0 |
| 43 | A White Random Laser: A First Step Towards Angle-free Laser Illumination. , 2018, , . | | 0 |
| 44 | Wrinkled 2D Materials: A Versatile Platform for Low-Threshold Stretchable Random Lasers. <i>Advanced Materials</i> , 2017, 29, 1703549. | 21.0 | 85 |
| 45 | Magnetically Controllable Random Lasers. <i>Advanced Materials Technologies</i> , 2017, 2, 1700170. | 5.8 | 32 |
| 46 | Diverse Functionalities of Vertically Stacked Graphene/Single layer n-MoS ₂ /SiO ₂ /p-GaN Heterostructures. <i>Scientific Reports</i> , 2017, 7, 10002. | 3.3 | 12 |
| 47 | Dissolvable and Recyclable Random Lasers. <i>ACS Nano</i> , 2017, 11, 7600-7607. | 14.6 | 41 |
| 48 | Highly Stretchable Label-like Random Laser on Universal Substrates. , 2017, , . | | 0 |
| 49 | Self-powered and broadband photodetectors based on graphene/ZnO/silicon triple junctions. <i>Applied Physics Letters</i> , 2016, 109, . | 3.3 | 36 |
| 50 | Highly Stretchable Label-like Random Laser on Universal Substrates. <i>Advanced Materials Technologies</i> , 2016, 1, 1600068. | 5.8 | 33 |
| 51 | Ultra-Thin Layered Ternary Single Crystals [Sn(S _x) _{1-x} Se ₂] with Bandgap Engineering for High Performance Phototransistors on Versatile Substrates. <i>Advanced Functional Materials</i> , 2016, 26, 3630-3638. | 14.9 | 77 |
| 52 | Ultrafast and Ultrasensitive Gas Sensors Derived from a Large Fermi-Level Shift in the Schottky Junction with Sieve-Layer Modulation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17382-17388. | 8.0 | 13 |