

Dylan Lu

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,072
citations

361045

20
h-index

552369

26
g-index

34
all docs

34
docs citations

34
times ranked

5337
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Thermochromic halide perovskite solar cells. <i>Nature Materials</i> , 2018, 17, 261-267. | 13.3 | 630 |
| 2 | Hyperlenses and metalenses for far-field super-resolution imaging. <i>Nature Communications</i> , 2012, 3, 1205. | 5.8 | 468 |
| 3 | Enhancing spontaneous emission rates of molecules using nanopatterned multilayer hyperbolic metamaterials. <i>Nature Nanotechnology</i> , 2014, 9, 48-53. | 15.6 | 428 |
| 4 | Bacteria photosensitized by intracellular gold nanoclusters for solar fuel production. <i>Nature Nanotechnology</i> , 2018, 13, 900-905. | 15.6 | 362 |
| 5 | Intrinsic anion diffusivity in lead halide perovskites is facilitated by a soft lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11929-11934. | 3.3 | 153 |
| 6 | Wide Field Super-Resolution Surface Imaging through Plasmonic Structured Illumination Microscopy. <i>Nano Letters</i> , 2014, 14, 4634-4639. | 4.5 | 130 |
| 7 | High performance multi-scaled nanostructured spectrally selective coating for concentrating solar power. <i>Nano Energy</i> , 2014, 8, 238-246. | 8.2 | 110 |
| 8 | Efficient light generation from enhanced inelastic electron tunnelling. <i>Nature Photonics</i> , 2018, 12, 485-488. | 15.6 | 100 |
| 9 | Structural and spectral dynamics of single-crystalline Ruddlesden-Popper phase halide perovskite blue light-emitting diodes. <i>Science Advances</i> , 2020, 6, eaay4045. | 4.7 | 88 |
| 10 | Quantitative imaging of anion exchange kinetics in halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12648-12653. | 3.3 | 84 |
| 11 | Ultralow Thermal Conductivity of Multilayers with Highly Dissimilar Debye Temperatures. <i>Nano Letters</i> , 2014, 14, 2448-2455. | 4.5 | 77 |
| 12 | Enhanced spontaneous emission inside hyperbolic metamaterials. <i>Optics Express</i> , 2014, 22, 4301. | 1.7 | 76 |
| 13 | Giant Light-Emission Enhancement in Lead Halide Perovskites by Surface Oxygen Passivation. <i>Nano Letters</i> , 2018, 18, 6967-6973. | 4.5 | 59 |
| 14 | Self-Assembly of Two-Dimensional Perovskite Nanosheet Building Blocks into Ordered Ruddlesden-Popper Perovskite Phase. <i>Journal of the American Chemical Society</i> , 2019, 141, 13028-13032. | 6.6 | 59 |
| 15 | Electrical and Optical Tunability in All-Inorganic Halide Perovskite Alloy Nanowires. <i>Nano Letters</i> , 2018, 18, 3538-3542. | 4.5 | 51 |
| 16 | Nanostructuring Multilayer Hyperbolic Metamaterials for Ultrafast and Bright Green InGaN Quantum Wells. <i>Advanced Materials</i> , 2018, 30, e1706411. | 11.1 | 49 |
| 17 | Tunable surface plasmon polaritons in Ag composite films by adding dielectrics or semiconductors. <i>Applied Physics Letters</i> , 2011, 98, 243114. | 1.5 | 26 |
| 18 | Lead halide perovskite nanowires stabilized by block copolymers for Langmuir-Blodgett assembly. <i>Nano Research</i> , 2020, 13, 1453-1458. | 5.8 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Creation of a magnetic plasmon polariton through strong coupling between an artificial magnetic atom and the defect state in a defective multilayer microcavity. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 22 |
| 20 | Design and Analysis of Blue InGaN/GaN Plasmonic LED for High-Speed, High-Efficiency Optical Communications. <i>ACS Photonics</i> , 2018, 5, 3557-3564. | 3.2 | 22 |
| 21 | Anomalously Weak Scattering in Metal-Semiconductor Multilayer Hyperbolic Metamaterials. <i>Physical Review X</i> , 2015, 5, . | 2.8 | 21 |
| 22 | Three-dimensional ZnO/Si broom-like nanowire heterostructures as photoelectrochemical anodes for solar energy conversion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2561-2568. | 0.8 | 9 |
| 23 | Dynamics of mesoscopic fluctuations of localized waves. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 8 |
| 24 | Highly stretchable, printable nanowire array optical polarizers. <i>Nanoscale</i> , 2016, 8, 15850-15856. | 2.8 | 7 |
| 25 | Optimization of Nanopatterned Multilayer Hyperbolic Metamaterials for Spontaneous Light Emission Enhancement. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800263. | 0.8 | 6 |
| 26 | Three-dimensional nanoscale imaging by plasmonic Brownian microscopy. <i>Nanophotonics</i> , 2017, 7, 489-495. | 2.9 | 1 |
| 27 | Strongly Enhanced Fluorescence Decay Rates on Multilayered Plasmonic Metamaterials. , 2012, , . | | 0 |
| 28 | Enhanced spontaneous emission from the inside of a multilayer hyperbolic metamaterial (presentation) Tj ETQq0 0 0 rgBT /Oyerlock 10 | | |
| 29 | Localized surface plasmon assisted contrast microscopy for ultrathin transparent specimens. <i>Applied Physics Letters</i> , 2014, 105, 163102. | 1.5 | 0 |
| 30 | Nanopatterned Multilayer Hyperbolic Metamaterials for Enhancing Spontaneous Light Emission. , 2014, , . | | 0 |
| 31 | Enhanced spontaneous emission by embedding light emitters inside hyperbolic metamaterials. , 2014, , . | | 0 |
| 32 | Light emission enhancement by using patterned multilayer hyperbolic metamaterials. , 2015, , . | | 0 |
| 33 | External occulter edge scattering control using metamaterials for exoplanet detection. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 0 |
| 34 | Resolving Carrier Dynamics in Metal Halide Perovskites to Elucidate Structural Transformation Mechanisms and the Impact of Structural Heterogeneity on Transport. , 0, , . | | 0 |