

# Lim Wei Yap

## List of Publications by Year in Descending Order

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**Version:** 2024-04-04

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

|                   |                         |               |                 |
|-------------------|-------------------------|---------------|-----------------|
| 52<br>papers      | 3,098<br>citations      | 30<br>h-index | 55<br>g-index   |
| 56<br>ext. papers | 3,731<br>ext. citations | 11<br>avg, IF | 5.51<br>L-index |

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 52 | A gold nanowire-integrated soft wearable system for dynamic continuous non-invasive cardiac monitoring.. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 205, 114072                                   | 11.8 | 2         |
| 51 | Cell Sheet-like Soft Nanoreactor Arrays. <i>Advanced Materials</i> , <b>2021</b> , e2105630   | 24   | 0         |
| 50 | Mechanically-gated electrochemical ionic channels with chemically modified vertically aligned gold nanowires. <i>IScience</i> , <b>2021</b> , 24, 103307  | 6.1  | 1         |
| 49 | Self-assembled Janus plasmene nanosheets as flexible 2D photocatalysts. <i>Materials Horizons</i> , <b>2021</b> , 8, 259-266  | 14.4 | 7         |
| 48 | Orientation-Dependent Soft Plasmonics of Gold Nanobipyramid Plasmene Nanosheets. <i>Nano Letters</i> , <b>2021</b> , 21, 389-396  | 11.5 | 3         |
| 47 | Seagrass-inspired design of soft photocatalytic sheets based on hydrogel-integrated free-standing 2D nanoassemblies of multifunctional nanohexagons. <i>Materials Horizons</i> , <b>2021</b> , 8, 2533-2540 | 14.4 | 5         |
| 46 | Nanowire-Based Soft Wearable HumanMachine Interfaces for Future Virtual and Augmented Reality Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008347                                | 15.6 | 25        |
| 45 | Electronic Skin Wearable Sensors for Detecting Lumbar-Pelvic Movements. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8  | 11        |
| 44 | Vertically Aligned Gold Nanowires as Stretchable and Wearable Epidermal Ion-Selective Electrode for Noninvasive Multiplexed Sweat Analysis. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4647-4655       | 7.8  | 66        |
| 43 | A Soft Resistive Acoustic Sensor Based on Suspended Standing Nanowire Membranes with Point Crack Design. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910717                                   | 15.6 | 30        |
| 42 | Hairy gold nanorods: gold nanowire growth on nanosubstrates [Invited]. <i>Optical Materials Express</i> , <b>2020</b> , 10, 342   | 2.6  | 1         |
| 41 | Disruptive, Soft, Wearable Sensors. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904664  | 24   | 138       |
| 40 | Multiscale Soft-Hard Interface Design for Flexible Hybrid Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902278   | 24   | 35        |
| 39 | Self-powered gold nanowire tattoo triboelectric sensors for soft wearable human-machine interface. <i>Nano Energy</i> , <b>2020</b> , 77, 105295  | 17.1 | 40        |
| 38 | Plasmene nanosheets as optical skin strain sensors. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1515-1523  | 10.8 | 10        |
| 37 | Local Crack-Programmed Gold Nanowire Electronic Skin Tattoos for In-Plane Multisensor Integration. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903789   | 24   | 94        |
| 36 | Cat-Tail-Like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. <i>ChemPlusChem</i> , <b>2019</b> , 84, 1031-1038            | 2.8  | 2         |

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|----|--|------|-----|
| 35 | A General Approach to Free-Standing Nanoassemblies via Acoustic Levitation Self-Assembly. <i>ACS Nano</i> , <b>2019</b> , 13, 5243-5250  | 16.7 | 22  |
| 34 | Bifunctional Fe <sub>3</sub> O <sub>4</sub> @AuNWs particle as wearable bending and strain sensor. <i>Inorganic Chemistry Communication</i> , <b>2019</b> , 104, 98-104  | 3.1  | 14  |
| 33 | Hierarchically Structured Vertical Gold Nanowire Array-Based Wearable Pressure Sensors for Wireless Health Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29014-29021                           | 9.5  | 86  |
| 32 | Cat-Tail-Like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. <i>ChemPlusChem</i> , <b>2019</b> , 84, 1030                                    | 2.8  | 1   |
| 31 | A Wearable Second Skin-Like Multifunctional Supercapacitor with Vertical Gold Nanowires and Electrochromic Polyaniline. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800473                                      | 6.8  | 62  |
| 30 | Two-dimensional gold trisoctahedron nanoparticle superlattice sheets: self-assembly, characterization and immunosensing applications. <i>Nanoscale</i> , <b>2018</b> , 10, 5065-5071   | 7.7  | 43  |
| 29 | Shape Transformation of Constituent Building Blocks within Self-Assembled Nanosheets and Nano-origami. <i>ACS Nano</i> , <b>2018</b> , 12, 1014-1022   | 16.7 | 15  |
| 28 | A location- and sharpness-specific tactile electronic skin based on staircase-like nanowire patches. <i>Nanoscale Horizons</i> , <b>2018</b> , 3, 640-647  | 10.8 | 36  |
| 27 | Unconventional Janus Properties of Enokitake-like Gold Nanowire Films. <i>ACS Nano</i> , <b>2018</b> , 12, 8717-8722   | 16.7 | 43  |
| 26 | Self-assembled gold nanorime mesh conductors for invisible stretchable supercapacitors. <i>Nanoscale</i> , <b>2018</b> , 10, 15948-15955   | 7.7  | 30  |
| 25 | Highly Stretchable Fiber-Shaped Supercapacitors Based on Ultrathin Gold Nanowires with Double-Helix Winding Design. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42612-42620                              | 9.5  | 30  |
| 24 | Vertical Gold Nanowires Stretchable Electrochemical Electrodes. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 13498-13505  | 17.5 | 43  |
| 23 | Standing Enokitake-like Nanowire Films for Highly Stretchable Elastronics. <i>ACS Nano</i> , <b>2018</b> , 12, 9742-9748   | 16.7 | 93  |
| 22 | Percolating Network of Ultrathin Gold Nanowires and Silver Nanowires toward Invisible Wearable Sensors for Detecting Emotional Expression and Apexcardiogram. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700845 | 15.6 | 190 |
| 21 | Bifunctional plasmonic-magnetic particles for an enhanced microfluidic SERS immunoassay. <i>Nanoscale</i> , <b>2017</b> , 9, 7822-7829   | 7.7  | 39  |
| 20 | Black Gold: Broadband, High Absorption of Visible Light for Photochemical Systems. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604080  | 15.6 | 54  |
| 19 | Soft piezoresistive pressure sensing matrix from copper nanowires composite aerogel. <i>Science Bulletin</i> , <b>2016</b> , 61, 1624-1630   | 10.6 | 26  |
| 18 | Fabrication of Highly Transparent and Flexible NanoMesh Electrode via Self-assembly of Ultrathin Gold Nanowires. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600121   | 6.4  | 86  |

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|----|--|------|-----|
| 17 | Tumor cell-specific photothermal killing by SELEX-derived DNA aptamer-targeted gold nanorods. <i>Nanoscale</i> , <b>2016</b> , 8, 187-96   | 7.7  | 30  |
| 16 | Liquid-Wetting-Solid Strategy To Fabricate Stretchable Sensors for Human-Motion Detection. <i>ACS Sensors</i> , <b>2016</b> , 1, 303-311   | 9.2  | 52  |
| 15 | Matryoshka-caged gold nanorods: Synthesis, plasmonic properties, and catalytic activity. <i>Nano Research</i> , <b>2016</b> , 9, 415-423   | 10   | 30  |
| 14 | Two-Dimensional Bipyramid Plasmonic Nanoparticle Liquid Crystalline Superstructure with Four Distinct Orientational Packing Orders. <i>ACS Nano</i> , <b>2016</b> , 10, 967-76                   | 16.7 | 83  |
| 13 | Self-assembled Ultrathin Gold Nanowires as Highly Transparent, Conductive and Stretchable Supercapacitor. <i>Electroanalysis</i> , <b>2016</b> , 28, 1298-1304                                   | 3    | 66  |
| 12 | Free-Standing Bilayered Nanoparticle Superlattice Nanosheets with Asymmetric Ionic Transport Behaviors. <i>ACS Nano</i> , <b>2015</b> , 9, 11218-24  | 16.7 | 40  |
| 11 | Tattoolike Polyaniline Microparticle-Doped Gold Nanowire Patches as Highly Durable Wearable Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19700-8                    | 9.5  | 224 |
| 10 | Mimosa-inspired design of a flexible pressure sensor with touch sensitivity. <i>Small</i> , <b>2015</b> , 11, 1886-91  | 11   | 240 |
| 9  | Sensors: Mimosa-Inspired Design of a Flexible Pressure Sensor with Touch Sensitivity (Small 16/2015). <i>Small</i> , <b>2015</b> , 11, 1885-1885   | 11   | 3   |
| 8  | Dual-Coded Plasmene Nanosheets as Next-Generation Anticounterfeit Security Labels. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1710-1717  | 8.1  | 64  |
| 7  | Highly Stretchy Black Gold E-Skin Nanopatches as Highly Sensitive Wearable Biomedical Sensors. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1400063                                   | 6.4  | 331 |
| 6  | Multilayered core-satellite nanoassemblies with fine-tunable broadband plasmon resonances. <i>Nanoscale</i> , <b>2015</b> , 7, 3445-52   | 7.7  | 38  |
| 5  | Plasmonic core-shell nanoparticles for SERS detection of the pesticide thiram: size- and shape-dependent Raman enhancement. <i>Nanoscale</i> , <b>2015</b> , 7, 2862-8                           | 7.7  | 122 |
| 4  | Plasmonic caged gold nanorods for near-infrared light controlled drug delivery. <i>Nanoscale</i> , <b>2014</b> , 6, 14388-93   | 7.7  | 45  |
| 3  | Manufacturable conducting rubber ambers and stretchable conductors from copper nanowire aerogel monoliths. <i>ACS Nano</i> , <b>2014</b> , 8, 5707-14  | 16.7 | 199 |
| 2  | Large-Scale Self-Assembly and Stretch-Induced Plasmonic Properties of Core-Shell Metal Nanoparticle Superlattice Sheets. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26816-26824 | 3.8  | 37  |
| 1  | Ultralow-density copper nanowire aerogel monoliths with tunable mechanical and electrical properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6723                            | 13   | 111 |