Lim Wei Yap

List of Publications by Citations

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

#	Paper	IF	Citations
52	Highly Stretchy Black Gold E-Skin Nanopatches as Highly Sensitive Wearable Biomedical Sensors. *Advanced Electronic Materials*, **2015**, 1, 1400063	6.4	331
51	Mimosa-inspired design of a flexible pressure sensor with touch sensitivity. *Small*, **2015**, 11, 1886-91	11	240
50	Tattoolike Polyaniline Microparticle-Doped Gold Nanowire Patches as Highly Durable Wearable Sensors. *ACS Applied Materials & Interfaces*, **2015**, 7, 19700-8	9.5	224
49	Manufacturable conducting rubber ambers and stretchable conductors from copper nanowire aerogel monoliths. *ACS Nano*, **2014**, 8, 5707-14	16.7	199
48	Percolating Network of Ultrathin Gold Nanowires and Silver Nanowires toward "Invisible" Wearable Sensors for Detecting Emotional Expression and Apexcardiogram. *Advanced Functional Materials*, **2017**, 27, 1700845	15.6	190
47	Disruptive, Soft, Wearable Sensors. *Advanced Materials*, **2020**, 32, e1904664	24	138
46	Plasmonic core-shell nanoparticles for SERS detection of the pesticide thiram: size- and shape-dependent Raman enhancement. *Nanoscale*, **2015**, 7, 2862-8	7.7	122
45	Ultralow-density copper nanowire aerogel monoliths with tunable mechanical and electrical properties. *Journal of Materials Chemistry A*, **2013**, 1, 6723	13	111
44	Local Crack-Programmed Gold Nanowire Electronic Skin Tattoos for In-Plane Multisensor Integration. *Advanced Materials*, **2019**, 31, e1903789	24	94
43	Standing Enokitake-like Nanowire Films for Highly Stretchable Elastronics. *ACS Nano*, **2018**, 12, 9742-9749	16.7	93
42	Fabrication of Highly Transparent and Flexible NanoMesh Electrode via Self-assembly of Ultrathin Gold Nanowires. *Advanced Electronic Materials*, **2016**, 2, 1600121	6.4	86
41	Hierarchically Structured Vertical Gold Nanowire Array-Based Wearable Pressure Sensors for Wireless Health Monitoring. *ACS Applied Materials & Interfaces*, **2019**, 11, 29014-29021	9.5	86
40	Two-Dimensional Bipyramid Plasmonic Nanoparticle Liquid Crystalline Superstructure with Four Distinct Orientational Packing Orders. *ACS Nano*, **2016**, 10, 967-76	16.7	83
39	Vertically Aligned Gold Nanowires as Stretchable and Wearable Epidermal Ion-Selective Electrode for Noninvasive Multiplexed Sweat Analysis. *Analytical Chemistry*, **2020**, 92, 4647-4655	7.8	66
38	Self-assembled Ultrathin Gold Nanowires as Highly Transparent, Conductive and Stretchable Supercapacitor. *Electroanalysis*, **2016**, 28, 1298-1304	3	66
37	Dual-Coded Plasmene Nanosheets as Next-Generation Anticounterfeit Security Labels. *Advanced Optical Materials*, **2015**, 3, 1710-1717	8.1	64
36	A Wearable Second Skin-Like Multifunctional Supercapacitor with Vertical Gold Nanowires and Electrochromic Polyaniline. *Advanced Materials Technologies*, **2019**, 4, 1800473	6.8	62

35	Black Gold: Broadband, High Absorption of Visible Light for Photochemical Systems. *Advanced Functional Materials*, **2017**, 27, 1604080	15.6	54
34	Liquid-Wetting-Solid Strategy To Fabricate Stretchable Sensors for Human-Motion Detection. *ACS Sensors*, **2016**, 1, 303-311	9.2	52
33	Plasmonic caged gold nanorods for near-infrared light controlled drug delivery. *Nanoscale*, **2014**, 6, 14388-93	7.7	45
32	Two-dimensional gold trisoctahedron nanoparticle superlattice sheets: self-assembly, characterization and immunosensing applications. *Nanoscale*, **2018**, 10, 5065-5071	7.7	43
31	Unconventional Janus Properties of Enokitake-like Gold Nanowire Films. *ACS Nano*, **2018**, 12, 8717-8722	16.7	43
30	Vertical Gold Nanowires Stretchable Electrochemical Electrodes. *Analytical Chemistry*, **2018**, 90, 13498-13505	7.8	43
29	Free-Standing Bilayered Nanoparticle Superlattice Nanosheets with Asymmetric Ionic Transport Behaviors. *ACS Nano*, **2015**, 9, 11218-24	16.7	40
28	Self-powered gold nanowire tattoo triboelectric sensors for soft wearable human-machine interface. *Nano Energy*, **2020**, 77, 105295	17.1	40
27	Bifunctional plasmonic-magnetic particles for an enhanced microfluidic SERS immunoassay. *Nanoscale*, **2017**, 9, 7822-7829	7.7	39
26	Multilayered core-satellite nanoassemblies with fine-tunable broadband plasmon resonances. *Nanoscale*, **2015**, 7, 3445-52	7.7	38
25	Large-Scale Self-Assembly and Stretch-Induced Plasmonic Properties of Core–Shell Metal Nanoparticle Superlattice Sheets. *Journal of Physical Chemistry C*, **2014**, 118, 26816-26824	3.8	37
24	A location- and sharpness-specific tactile electronic skin based on staircase-like nanowire patches. *Nanoscale Horizons*, **2018**, 3, 640-647	10.8	36
23	Multiscale Soft-Hard Interface Design for Flexible Hybrid Electronics. *Advanced Materials*, **2020**, 32, e1902278	24	35
22	A Soft Resistive Acoustic Sensor Based on Suspended Standing Nanowire Membranes with Point Crack Design. *Advanced Functional Materials*, **2020**, 30, 1910717	15.6	30
21	Tumor cell-specific photothermal killing by SELEX-derived DNA aptamer-targeted gold nanorods. *Nanoscale*, **2016**, 8, 187-96	7.7	30
20	Matryoshka-caged gold nanorods: Synthesis, plasmonic properties, and catalytic activity. *Nano Research*, **2016**, 9, 415-423	10	30
19	Self-assembled gold nanorime mesh conductors for invisible stretchable supercapacitors. *Nanoscale*, **2018**, 10, 15948-15955	7.7	30
18	Highly Stretchable Fiber-Shaped Supercapacitors Based on Ultrathin Gold Nanowires with Double-Helix Winding Design. *ACS Applied Materials & Interfaces*, **2018**, 10, 42612-42620	9.5	30

17	Soft piezoresistive pressure sensing matrix from copper nanowires composite aerogel. *Science Bulletin*, **2016**, 61, 1624-1630	10.6	26
16	Nanowire-Based Soft Wearable Human–Machine Interfaces for Future Virtual and Augmented Reality Applications. *Advanced Functional Materials*, **2021**, 31, 2008347	15.6	25
15	A General Approach to Free-Standing Nanoassemblies via Acoustic Levitation Self-Assembly. *ACS Nano*, **2019**, 13, 5243-5250	16.7	22
14	Shape Transformation of Constituent Building Blocks within Self-Assembled Nanosheets and Nano-origami. *ACS Nano*, **2018**, 12, 1014-1022	16.7	15
13	Bifunctional Fe3O4@AuNWs particle as wearable bending and strain sensor. *Inorganic Chemistry Communication*, **2019**, 104, 98-104	3.1	14
12	Electronic Skin Wearable Sensors for Detecting Lumbar-Pelvic Movements. *Sensors*, **2020**, 20,	3.8	11
11	Plasmene nanosheets as optical skin strain sensors. *Nanoscale Horizons*, **2020**, 5, 1515-1523	10.8	10
10	Self-assembled Janus plasmene nanosheets as flexible 2D photocatalysts. *Materials Horizons*, **2021**, 8, 259-266	14.4	7
9	Seagrass-inspired design of soft photocatalytic sheets based on hydrogel-integrated free-standing 2D nanoassemblies of multifunctional nanohexagons. *Materials Horizons*, **2021**, 8, 2533-2540	14.4	5
8	Sensors: Mimosa-Inspired Design of a Flexible Pressure Sensor with Touch Sensitivity (Small 16/2015). *Small*, **2015**, 11, 1885-1885	11	3
7	Orientation-Dependent Soft Plasmonics of Gold Nanobipyramid Plasmene Nanosheets. *Nano Letters*, **2021**, 21, 389-396	11.5	3
6	Cat-Tail-Like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. *ChemPlusChem*, **2019**, 84, 1031-1038	2.8	2
5	A gold nanowire-integrated soft wearable system for dynamic continuous non-invasive cardiac monitoring.. *Biosensors and Bioelectronics*, **2022**, 205, 114072	11.8	2
4	Cat-Tail-Like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. *ChemPlusChem*, **2019**, 84, 1030	2.8	1
3	Hairy gold nanorods: gold nanowire growth on nanosubstrates [Invited]. *Optical Materials Express*, **2020**, 10, 342	2.6	1
2	Mechanically-gated electrochemical ionic channels with chemically modified vertically aligned gold nanowires. *IScience*, **2021**, 24, 103307	6.1	1
1	Cell Sheet-like Soft Nanoreactor Arrays. *Advanced Materials*, **2021**, e2105630	24	0