Yang Li

List of Publications by Year
in descending order

41 papers	1,992 citations	304743 22 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	1986 citing authors

#	Article	IF	Citations
1	Multicolor 3D meta-holography by broadband plasmonic modulation. Science Advances, 2016, 2, e1601102.	10.3	481
2	Highly Morphologyâ€Controllable and Highly Sensitive Capacitive Tactile Sensor Based on Epidermisâ€Dermisâ€Inspired Interlocked Asymmetricâ€Nanocone Arrays for Detection of Tiny Pressure. Small, 2020, 16, e1904774.	10.0	166
3	Anodized Aluminum Oxide-Assisted Low-Cost Flexible Capacitive Pressure Sensors Based on Double-Sided Nanopillars by a Facile Fabrication Method. ACS Applied Materials & Interfaces, 2019, 11, 48594-48603.	8.0	130
4	Recent Advances in Carbon Materialâ€Based Multifunctional Sensors and Their Applications in Electronic Skin Systems. Advanced Functional Materials, 2021, 31, 2104288.	14.9	116
5	Artificial Optoelectronic Synapses Based on TiN_xO_{2â€“}_x/MoS₂ Heterojunction for Neuromorphic Computing and Visual System. Advanced Functional Materials, 2021, 31, 2101201.	14.9	92
6	Sn3O4/rGO heterostructure as a material for formaldehyde gas sensor with a wide detecting range and low operating temperature. Sensors and Actuators B: Chemical, 2020, 312, 127954.	7.8	85
7	Microâ€Nano Processing of Active Layers in Flexible Tactile Sensors via Template Methods: A Review. Small, 2021, 17, e2100804.	10.0	82
8	Nanostructured perovskites for nonvolatile memory devices. Chemical Society Reviews, 2022, 51, 3341-3379.	38.1	71
9	Carbon-based nanomaterials for the detection of volatile organic compounds: A review. Carbon, 2021, 180, 274-297.	10.3	67
10	High-Performance porous MIM-type capacitive humidity sensor realized via inductive coupled plasma and reactive-Ion etching. Sensors and Actuators B: Chemical, 2018, 258, 704-714.	7.8	59
11	Ultrafast-response/recovery capacitive humidity sensor based on arc-shaped hollow structure with nanocone arrays for human physiological signals monitoring. Sensors and Actuators B: Chemical, 2021, 334, 129637.	7.8	58
12	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. Energy Storage Materials, 2020, 27, 17-24.	18.0	54
13	Wearable and Biodegradable Sensors for Human Health Monitoring. ACS Applied Bio Materials, 2021, 4, 122-139.	4.6	52
14	Synthesis of Waferâ€Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. Advanced Materials Technologies, 2021, 6, 2000744.	5.8	46
15	Fabrication of a Sensitive Strain and Pressure Sensor from Gold Nanoparticle-Assembled 3D-Interconnected Graphene Microchannel-Embedded PDMS. ACS Applied Materials & Interfaces, 2020, 12, 51854-51863.	8.0	41
16	Selfâ€Assembled Flexible and Integratable 3D Microtubular Asymmetric Supercapacitors. Advanced Science, 2019, 6, 1901051.	11.2	39
17	High-Performance Formaldehyde Gas Sensor Based on Cu-Doped Sn₃O₄ Hierarchical Nanoflowers. IEEE Sensors Journal, 2020, 20, 6945-6953.	4.7	31
18	Hybrid electronic skin combining triboelectric nanogenerator and humidity sensor for contact and non-contact sensing. Nano Energy, 2022, 101, 107541.	16.0	31

#	Article	IF	Citations
19	A waterproof and breathable Cotton/rGO/CNT composite for constructing a layer-by-layer structured multifunctional flexible sensor. Nano Research, 2022, 15, 9341-9351.	10.4	26
20	Towards high-performance microscale batteries: Configurations and optimization of electrode materials by in-situ analytical platforms. Energy Storage Materials, 2020, 29, 17-41.	18.0	25
21	Study on Multilevel Resistive Switching Behavior With Tunable ON/OFF Ratio Capability in Forming-Free ZnO QDs-Based RRAM. IEEE Transactions on Electron Devices, 2020, 67, 4884-4890.	3.0	24
22	Wrinkle networks in exfoliated multilayer graphene and other layered materials. Carbon, 2020, 156, 24-30.	10.3	23
23	Unsymmetrical Alveolate PMMA/MWCNT Film as a Piezoresistive E-Skin with Four-Dimensional Resolution and Application for Detecting Motion Direction and Airflow Rate. ACS Applied Materials & Interfaces, 2020, 12, 30896-30904.	8.0	23
24	Skinâ€Inspired Capacitive Stress Sensor with Large Dynamic Range via Bilayer Liquid Metal Elastomers. Advanced Materials Technologies, 2022, 7, .	5.8	23
25	Efficient All-Dielectric Diatomic Metasurface for Linear Polarization Generation and 1-Bit Phase Control. ACS Applied Materials & Interfaces, 2021, 13, 14497-14506.	8.0	20
26	A Digitalâ€“Analog Integrated Memristor Based on a ZnO NPs/CuO NWs Heterostructure for Neuromorphic Computing. ACS Applied Electronic Materials, 2022, 4, 3525-3534.	4.3	18
27	Polarization-encrypted high-resolution full-color images exploiting hydrogenated amorphous silicon nanogratings. Nanophotonics, 2020, 9, 875-884.	6.0	15
28	Multifunctional Optoelectronic Random Access Memory Device Based on Surfaceâ€Plasmaâ€Treated Inorganic Halide Perovskite. Advanced Electronic Materials, 2021, 7, 2100366.	5.1	15
29	Reusable, Non-Invasive, and Ultrafast Radio Frequency Biosensor Based on Optimized Integrated Passive Device Fabrication Process for Quantitative Detection of Glucose Levels. Sensors, 2020, 20, 1565.	3.8	13
30	Dielectric metasurfaces based on a rectangular lattice of a-Si:H nanodisks for color pixels with high saturation and stability. Optics Express, 2019, 27, 35027.	3.4	13
31	Super Field Plate Technique That Can Provide Charge Balance Effect for Lateral Power Devices Without Occupying Drift Region. IEEE Transactions on Electron Devices, 2020, 67, 2218-2222.	3.0	11
32	Dielectric Polarizationâ€Filtering Metasurface Doublet for Trifunctional Control of Fullâ€Space Visible Light. Laser and Photonics Reviews, 2022, 16, .	8.7	11
33	Three-Dimensional Varying Density Field Plate for Lateral Power Devices. IEEE Transactions on Electron Devices, 2019, 66, 1422-1429.	3.0	10
34	High-performance and self-rectifying resistive random access memory based on SnO₂ nanorod array: ZnO nanoparticle structure. Applied Physics Express, 2019, 12, 121002.	2.4	6
35	An Improved Hot-Carrier Lifetime Evaluation Method for the n-Type LDMOS With Hot-Hole Injection. IEEE Transactions on Electron Devices, 2018, 65, 3567-3571.	3.0	4
36	An Etching Method for Fabricating Anisotropic Silicon Nanostructures with Vertical and Smooth Sidewalls. Nanoscience and Nanotechnology Letters, 2019, 11, 500-505.	0.4	3

#	Article	IF	Citations
37	A novel SOI-LDMOS with field plate auxiliary doping layer that has improved breakdown voltage. Solid-State Electronics, 2022, 189, 108227.	1.4	3
38	Study of GaN/AlGaN photocathode with variable aluminum AlxGa1â˜'xN material in emission layer. Optik, 2018, 158, 363-367.	2.9	2
39	XPS Studies of the Graded Band Gap Al_xGa_{1-x}N Material Grown by MOCVD. Applied Mechanics and Materials, 0, 864, 25-29.	0.2	1
40	Hot-carrier-induced current capability degradation and optimization for lateral IGBT on thick SOI substrate. Solid-State Electronics, 2018, 145, 34-39.	1.4	1
41	A Novel LDMOS with Quadruple RESURF Effect Breaking Silicon Limit. , 2019, , .		1