

# Lu-Qi Tao

## List of Publications by Year in descending order

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62  
papers

2,994  
citations

331670

21  
h-index

223800

46  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-Paper Pressure Sensor for Detecting Human Motions. ACS Nano, 2017, 11, 8790-8795.	14.6	572
2	An intelligent artificial throat with sound-sensing ability based on laser induced graphene. Nature Communications, 2017, 8, 14579.	12.8	396
3	Flexible, Highly Sensitive, and Wearable Pressure and Strain Sensors with Graphene Porous Network Structure. ACS Applied Materials & Interfaces, 2016, 8, 26458-26462.	8.0	387
4	Hybrid Chloroantimonates(III): Thermally Induced Triple-Mode Reversible Luminescent Switching and Laser-Printable Rewritable Luminescent Paper. Angewandte Chemie - International Edition, 2019, 58, 9974-9978.	13.8	176
5	Flexible, highly sensitive pressure sensor with a wide range based on graphene-silk network structure. Applied Physics Letters, 2017, 110, .	3.3	116
6	Sea urchin-like microstructure pressure sensors with an ultra-broad range and high sensitivity. Nature Communications, 2021, 12, 1776.	12.8	109
7	High performance flexible strain sensor based on self-locked overlapping graphene sheets. Nanoscale, 2016, 8, 20090-20095.	5.6	108
8	Self-adapted and tunable graphene strain sensors for detecting both subtle and large human motions. Nanoscale, 2017, 9, 8266-8273.	5.6	100
9	ZnO/WSe <sub>2</sub> vdW heterostructure for photocatalytic water splitting. Journal of Materials Chemistry C, 2019, 7, 7104-7113.	5.5	93
10	A Dual-Functional Graphene-Based Self-Alarm Health-Monitoring E-Skin. Advanced Functional Materials, 2019, 29, 1904706.	14.9	88
11	An ultrasensitive strain sensor with a wide strain range based on graphene armour scales. Nanoscale, 2018, 10, 11524-11530.	5.6	77
12	Rh-doped h-BN monolayer as a high sensitivity SF <sub>6</sub> decomposed gases sensor: A DFT study. Applied Surface Science, 2021, 536, 147965.	6.1	76
13	Graphene oxide humidity sensor with laser-induced graphene porous electrodes. Sensors and Actuators B: Chemical, 2020, 325, 128790.	7.8	74
14	Laser-induced graphene (LIG)-based pressure sensor and triboelectric nanogenerator towards high-performance self-powered measurement-control combined system. Nano Energy, 2022, 96, 107099.	16.0	60
15	Tellurene Nanoflake-Based NO <sub>2</sub> Sensors with Superior Sensitivity and a Sub-Parts-per-Billion Detection Limit. ACS Applied Materials & Interfaces, 2020, 12, 47704-47713.	8.0	54
16	Monolayer Tellurene-Based Gas Sensor to Detect SF <sub>6</sub> Decompositions: A First-Principles Study. IEEE Electron Device Letters, 2019, 40, 1522-1525.	3.9	44
17	Tellurene based biosensor for detecting DNA/RNA nucleobases and amino acids: A theoretical insight. Applied Surface Science, 2020, 532, 147451.	6.1	27
18	First-principles calculations of adsorption sensitivity of Au-doped MoS <sub>2</sub> gas sensor to main characteristic gases in oil. Journal of Materials Science, 2021, 56, 13673-13683.	3.7	27

#	ARTICLE	IF	CITATIONS
19	Improved Performance of Flexible Graphene Heater Based on Repeated Laser Writing. IEEE Electron Device Letters, 2020, 41, 501-504.	3.9	26
20	Flexible graphene sound device based on laser reduced graphene. Applied Physics Letters, 2017, 111, .	3.3	24
21	Two-dimensional penta-SiAs <sub>2</sub> : a potential metal-free photocatalyst for overall water splitting. Journal of Materials Chemistry C, 2020, 8, 11980-11987.	5.5	24
22	An investigation of the positive effects of doping an Al atom on the adsorption of CO <sub>2</sub> on BN nanosheets: a DFT study. Physical Chemistry Chemical Physics, 2020, 22, 9368-9374.	2.8	22
23	Humidity-Based Human–Machine Interaction System for Healthcare Applications. ACS Applied Materials & Interfaces, 2022, 14, 12606-12616.	8.0	22
24	Hybrid Chloroantimonates(III): Thermally Induced Triple-Mode Reversible Luminescent Switching and Laser-Printable Rewritable Luminescent Paper. Angewandte Chemie, 2019, 131, 10079-10083.	2.0	21
25	An Integrated Luminescent Information Encryption–Decryption and Anticounterfeiting Chip Based on Laser Induced Graphene. Advanced Functional Materials, 2021, 31, 2103255.	14.9	21
26	Sensing Characteristics of Toxic Câ„Fâ„†N Decomposition Products on Metallic- Nanoparticle Co-Doped BN Monolayer: A First Principles Study. IEEE Sensors Journal, 2021, 21, 13082-13089.	4.7	20
27	Graphene devices based on laser scribing technology. Japanese Journal of Applied Physics, 2018, 57, 04FA01.	1.5	19
28	A Flexible 360-Degree Thermal Sound Source Based on Laser Induced Graphene. Nanomaterials, 2016, 6, 112.	4.1	18
29	A Monolayer Composite of h-BN Doped by a Nano Graphene Domain: As Sensitive Material for SO <sub>2</sub> Gas Detection. IEEE Electron Device Letters, 2020, 41, 1404-1407.	3.9	18
30	Integrated Sensing and Warning Multifunctional Devices Based on the Combined Mechanical and Thermal Effect of Porous Graphene. ACS Applied Materials & Interfaces, 2020, 12, 53049-53057.	8.0	16
31	A point acoustic device based on aluminum nanowires. Nanoscale, 2016, 8, 5516-5525.	5.6	15
32	Novel electronic structures and enhanced optical properties of boron phosphide/blue phosphorene and F4TCNQ/blue phosphorene heterostructures: a DFT + NEGF study. Physical Chemistry Chemical Physics, 2018, 20, 28777-28785.	2.8	15
33	Photothermal effects induced by surface plasmon resonance at graphene/gold nanointerfaces: A multiscale modeling study. Biosensors and Bioelectronics, 2019, 126, 470-477.	10.1	14
34	Nomex paper-based double-sided laser-induced graphene for multifunctional human-machine interfaces. Carbon, 2022, 193, 68-76.	10.3	13
35	Gas Sensor Based on Semihydrogenated and Semifluorinated h-BN for SFâ„† Decomposition Components Detection. IEEE Transactions on Electron Devices, 2021, 68, 1878-1885.	3.0	12
36	Graphene-based film heater fabricated by laser writing. Materials Letters, 2021, 284, 128869.	2.6	11

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37	The promotion of sulfuric vacancy in two-dimensional molybdenum disulfide on the sensing performance of SF <sub>6</sub> decomposition components. Applied Surface Science, 2022, 571, 151377.	6.1	10
38	Metal Oxide Nanoparticles (XO, X = Cu, Zn, Ni) Doped GeSe Monolayer: Theoretical Exploration of a Novel H <sub>2</sub> S Gas Sensor for Health and Industrial Monitoring. IEEE Sensors Journal, 2021, 21, 26542-26548.	4.7	10
39	High-Performance Flexible Heater With Command-Responding Function Attained by Direct Laser Writing on Nomex Paper. IEEE Electron Device Letters, 2022, 43, 462-465.	3.9	10
40	Highly Skin-Compliant Polymeric Electrodes with Synergistically Boosted Conductivity toward Wearable Health Monitoring. ACS Applied Materials & Interfaces, 2022, 14, 20113-20121.	8.0	10
41	Flexible, wearable, and functional graphene-textile composites. Applied Physics Letters, 2017, 110, 261903.	3.3	9
42	Surface Acoustic Wave Devices Based on High Quality Temperature-Compensated Substrates. IEEE Electron Device Letters, 2016, 37, 1063-1066.	3.9	7
43	Flexible and large-area sound-emitting device using reduced graphene oxide. , 2013, , .		4
44	Graphene Oxide Modified Porous Graphene for Aqueous Alcohol Detection. , 2020, 4, 1-4.		4
45	A Flexible Graphene-Based Fabric Ultrasound Source for Machine Learning Enhanced Information Encryption. IEEE Electron Device Letters, 2022, 43, 1543-1546.	3.9	4
46	Promoting Crystal Distribution Uniformity Based on the CVD Method with the Aid of Finite Element Methods. Crystal Growth and Design, 2020, 20, 777-782.	3.0	3
47	A comparison of Pd and Au electrodes-based LiNbO <sub>3</sub> surface acoustic wave devices. Modern Physics Letters B, 2016, 30, 1650349.	1.9	2
48	Effect of pressure on nano copper sintering in interconnections of power device. , 2019, , .		2
49	Health Monitoring and Automatic Notification Device Based on Laser-Induced Graphene. IEEE Transactions on Electron Devices, 2020, 67, 4488-4492.	3.0	2
50	Tunable and wearable high performance strain sensors based on laser patterned graphene flakes. , 2016, , .		1
51	Design and Simulation of 1800V 40A 4H-SiC SBD Using TCAD. , 2018, , .		1
52	Graphem stack: Growth, characterization and diverse devices. , 2015, , .		0
53	Biological information wireless monitoring system. , 2015, , .		0
54	A universal method to grow and etch graphene film. , 2016, , .		0

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55	Electrical thermal acoustic point source based on mems technology. , 2016, , .		0
56	A simple way to grow large-area single-layer MoS <sub>2</sub> film by chemical vapor deposition. , 2017, , .		0
57	An Ultrasensitive Layer-Dependent and Weak Photothermal Interference SPR Sensor Based on Phosphorene/Gold Nanomaterials. , 2019, , .		0
58	Novel Two-dimensional Semiconductor Monolayer SnP <sub>2</sub> with Tunable Bandgap. , 2019, , .		0
59	The Simulation Study of Ohmic Contact at GaN- HEMT Devices Based on TCAD. , 2019, , .		0
60	High threshold voltage GaN HEMT with mixed conductive channel. , 2020, , .		0
61	Gallium Nitride Dual Two - Dimensional Electron Gas HEMT with a Good Performance: Based on TCAD simulations. , 2020, , .		0
62	Simulation Study of GaN-based Trench CAVET with p-Shielded Region. , 2020, , .		0