# Liang Guo

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9449815/publications.pdf

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| 58 | 1,743 | 471371 | 345118 |
|---|---|---|---|
| papers | citations | 17 h-index | 36 g-index |

| 66 | 66 | 66 | 3442 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bio-Inspired Polymer Composite Actuator and Generator Driven by Water Gradients. Science, 2013, 339, 186-189. | 6.0 | 710 |
| 2 | A PDMS-Based Integrated Stretchable Microelectrode Array (isMEA) for Neural and Muscular Surface Interfacing. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 1-10. | 2.7 | 115 |
| 3 | Stretchable Polymeric Multielectrode Array for Conformal Neural Interfacing. Advanced Materials, 2014, 26, 1427-1433. | 11.1 | 108 |
| 4 | A lithographically-patterned, elastic multi-electrode array for surface stimulation of the spinal cord. Biomedical Microdevices, 2008, 10, 259-269. | 1.4 | 87 |
| 5 | Improving impedance of implantable microwire multi-electrode arrays by ultrasonic electroplating of durable platinum black. Frontiers in Neuroengineering, 2010, 3, 5. | 4.8 | 85 |
| 6 | Nanomaterial-Enabled Neural Stimulation. Frontiers in Neuroscience, 2016, 10, 69. | 1.4 | 67 |
| 7 | Highâ€Density Stretchable Electronics: Toward an Integrated Multilayer Composite. Advanced Materials, 2010, 22, 4030-4033. | 11.1 | 54 |
| 8 | Flexible Photocatalytic Composite Film of ZnO-Microrods/Polypyrrole. ACS Applied Materials & Interfaces, 2017, 9, 29113-29119. | 4.0 | 45 |
| 9 | An Effective Liftâ€Off Method for Patterning Highâ€Density Gold Interconnects on an Elastomeric Substrate. Small, 2010, 6, 2847-2852. | 5.2 | 44 |
| 10 | Recent Advances on Polypyrrole Electroactuators. Polymers, 2017, 9, 446. | 2.0 | 41 |
| 11 | A PDMS-Based Conical-Well Microelectrode Array for Surface Stimulation and Recording of Neural Tissues. IEEE Transactions on Biomedical Engineering, 2010, 57, 2485-2494. | 2.5 | 32 |
| 12 | Enhancement of Intercellular Electrical Synchronization by Conductive Materials in Cardiac Tissue Engineering. IEEE Transactions on Biomedical Engineering, 2018, 65, 264-272. | 2.5 | 29 |
| 13 | A Stretchable Microneedle Electrode Array for Stimulating and Measuring Intramuscular Electromyographic Activity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1440-1452. | 2.7 | 27 |
| 14 | Nano functional neural interfaces. Nano Research, 2018, 11, 5065-5106. | 5.8 | 23 |
| 15 | Geometrically Enabled Soft Electroactuators via Laser Cutting. Advanced Engineering Materials, 2019, 21, 1900664. | 1.6 | 23 |
| 16 | Cytotoxicity of ZnO Nanowire Arrays on Excitable Cells. Nanomaterials, 2017, 7, 80. | 1.9 | 22 |
| 17 | Polypyrrole-Based Implantable Electroactive Pump for Controlled Drug Microinjection. ACS Applied Materials & Interfaces, 2015, 7, 14563-14568. | 4.0 | 20 |
| 18 | Selective Stimulation of the Spinal Cord Surface Using a Stretchable Microelectrode Array. Frontiers in Neuroengineering, 2011, 4, 5. | 4.8 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Interleaved multichannel epimysial stimulation for eliciting smooth contraction of muscle with reduced fatigue. , 2010, 2010, 6226-9. | | 17 |
| 20 | Perspectives on electrical neural recording: a revisit to the fundamental concepts. Journal of Neural Engineering, 2020, 17, 013001. | 1.8 | 17 |
| 21 | The Pursuit of Chronically Reliable Neural Interfaces: A Materials Perspective. Frontiers in Neuroscience, 2016, 10, 599. | 1.4 | 15 |
| 22 | Opportunities and dilemmas of in vitro nano neural electrodes. RSC Advances, 2020, 10, 187-200. | 1.7 | 14 |
| 23 | Batteryâ€free implantable insulin micropump operating at transcutaneously radio frequencyâ€transmittable power. Medical Devices & Sensors, 2019, 2, e10055. | 2.7 | 12 |
| 24 | On neural recording using nanoprotrusion electrodes. Journal of Neural Engineering, 2020, 17, 016017. | 1.8 | 11 |
| 25 | PDMS-based conformable microelectrode arrays with selectable novel 3-D microelectrode geometries for surface stimulation and recording. , 2009, 2009, 1623-6. | | 9 |
| 26 | Principles of functional neural mapping using an intracortical ultra-density microelectrode array (ultra-density MEA). Journal of Neural Engineering, 2020, 17, 036018. | 1.8 | 9 |
| 27 | Integrated biocircuits: engineering functional multicellular circuits and devices. Journal of Neural Engineering, 2018, 15, 023001. | 1.8 | 8 |
| 28 | Neuromodulation of metabolic functions: from pharmaceuticals to bioelectronics to biocircuits. Journal of Biological Engineering, 2019, 13, 67. | 2.0 | 8 |
| 29 | A conformable microelectrode array (cMEA) with integrated electronics for peripheral nerve interfacing. , 2010, , . | | 7 |
| 30 | Intrinsically passivated polypyrrole/polyol-borate soft electroactuators. Sensors and Actuators A: Physical, 2019, 293, 200-206. | 2.0 | 7 |
| 31 | Implementation of integratable PDMS-based conformable microelectrode arrays using a multilayer wiring interconnect technology. , 2009, 2009, 1619-22. | | 6 |
| 32 | A neuronal wiring platform through microridges for rationally engineered neural circuits. APL Bioengineering, 2020, 4, 046106. | 3.3 | 6 |
| 33 | Muscle surface recording and stimulation using integrated PDMS-based microelectrode arrays: Recording-triggered stimulation for prosthetic purposes. , 2009, , . | | 5 |
| 34 | Regenerative microchannel electrode array for peripheral nerve interfacing. , 2011, , . | | 5 |
| 35 | Zinc oxide nanorod array as an inhibitory biointerface. MRS Communications, 2018, 8, 1381-1386. | 0.8 | 5 |
| 36 | Fast Electrochemical Netting of Composite Chains for Transferable Highly Conductive Polymeric Nanofilms. Journal of Physical Chemistry B, 2019, 123, 8580-8589. | 1.2 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | CHAPTER 9. Conducting Polymers as Smart Materials for Tissue Engineering. RSC Smart Materials, 2016, , 239-268. | 0.1 | 4 |
| 38 | A low-cost, easy-fabricating stretchable microneedle-electrode array for intramuscular recording and stimulation. , 2011, , . | | 3 |
| 39 | Advancing the neurocomputer. Neurocomputing, 2018, 284, 36-51. | 3.5 | 3 |
| 40 | Peripheral Nerve Electrodes. , 2020, , 95-121. | | 3 |
| 41 | Characterization of a stretchable multielectrode array for epimysial recording. , 2011, , . | | 2 |
| 42 | An RF-driven lightweight implantable insulin pump. , 2018, , . | | 2 |
| 43 | A PDMS-based Elastic Multi-Electrode Array for Spinal Cord Surface Stimulation and its Electrode Modification to Enhance Performance. Materials Research Society Symposia Proceedings, 2007, 1009, 1. | 0.1 | 1 |
| 44 | Conducting Polymers: Stretchable Polymeric Multielectrode Array for Conformal Neural Interfacing (Adv. Mater. 9/2014). Advanced Materials, 2014, 26, 1310-1310. | 11.1 | 1 |
| 45 | Hydrogel-reinforced polypyrrole electroactuator. , 2016, 2016, 133-136. | | 1 |
| 46 | Toward living neuroprosthetics: developing a biological brain pacemaker as a living neuromodulatory implant for improving parkinsonian symptoms. Journal of Neural Engineering, 2021, 18, 046081. | 1.8 | 1 |
| 47 | Transcranial Magnetic Stimulation. , 2020, , 49-65. | | 1 |
| 48 | The Detection of Seizure Vulnerable Period from Epidural EEG Recordings of Epilepsy Rat. , 0, , . | | 0 |
| 49 | A hybrid muscle-in-the-loop robot system for studying the neuromechanical properties of movement. , 2010, , . | | 0 |
| 50 | Stretchable Polymeric Neural Electrode Array: Toward a Reliable Neural Interface. Materials Research Society Symposia Proceedings, 2015, 1795, 1-12. | 0.1 | 0 |
| 51 | Self-correcting multi-atlas segmentation. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 52 | Extracellular Recording. , 2022, , 57-70. | | 0 |
| 53 | Recording Using Tetrodes. , 2022, , 93-102. | | 0 |
| 54 | Stimulating Electrodes. , 2022, , 33-44. | | 0 |

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|---|---|---|---|
| 55 | Extracellular Recording of Propagating Action Potentials. , 2022, , 71-74. | | 0 |
| 56 | Recording Electrodes. , 2022, , 17-31. | | 0 |
| 57 | Optogenetics. , 2020, , 409-421. | | 0 |
| 58 | Intracortical Electrodes. , 2020, , 67-94. | | 0 |