

Scott Keene

Ph.D. Student in Materials Science and Engineering, admitted Autumn 2015

Publications

PUBLICATIONS

- **Enhancement-Mode PEDOT:PSS Organic Electrochemical Transistors Using Molecular De-Doping.** *Advanced materials (Deerfield Beach, Fla.)*
Keene, S. T., van der Pol, T. P., Zakhidov, D., Weijtens, C. H., Janssen, R. A., Salleo, A., van de Burgt, Y.
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- **Lowering the threshold for bioelectronics.** *Nature materials*
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- **A biohybrid synapse with neurotransmitter-mediated plasticity.** *Nature materials*
Keene, S. T., Lubrano, C., Kazemzadeh, S., Melianas, A., Tuchman, Y., Polino, G., Scognamiglio, P., Cinà, L., Salleo, A., van de Burgt, Y., Santoro, F.
2020
- **Parallel programming of an ionic floating-gate memory array for scalable neuromorphic computing** *SCIENCE*
Fuller, E. J., Keene, S. T., Melianas, A., Wang, Z., Agarwal, S., Li, Y., Tuchman, Y., James, C. D., Marinella, M. J., Yang, J., Salleo, A., Talin, A.
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- **Mechanisms for Enhanced State Retention and Stability in Redox-Gated Organic Neuromorphic Devices** *ADVANCED ELECTRONIC MATERIALS*
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- **Multifunctional, Room-Temperature Processable, Heterogeneous Organic Passivation Layer for Oxide Semiconductor Thin-Film Transistors.** *ACS applied materials & interfaces*
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- **The Mechanism of Dedoping PEDOT:PSS by Aliphatic Polyamines.** *The journal of physical chemistry. C, Nanomaterials and interfaces*
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- **High-Throughput Open-Air Plasma Activation of Metal-Oxide Thin Films with Low Thermal Budget** *ACS APPLIED MATERIALS & INTERFACES*
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- **Molecularly selective nanoporous membrane-based wearable organic electrochemical device for noninvasive cortisol sensing.** *Science advances*
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- **Optimized pulsed write schemes improve linearity and write speed for low-power organic neuromorphic devices** *JOURNAL OF PHYSICS D-APPLIED PHYSICS*
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- **Organic Electronics for Neuromorphic Computing** *NATURE ELECTRONICS*
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- **Electronic control of H⁺ current in a bioprotonic device with Gramicidin A and Alamethicin** *NATURE COMMUNICATIONS*
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