

Stanford



Alberto Salleo

Professor of Materials Science and Engineering

CONTACT INFORMATION

- **Administrator**

Naomi Tudor - Administrative Associate

Email ntudor@stanford.edu

Bio

BIO

Novel materials and processing techniques for large-area and flexible electronic/photonic devices. Polymeric materials for electronics, bioelectronics, and biosensors. Electrochemical devices for neuromorphic computing. Defects and structure/property studies of polymeric semiconductors, nano-structured and amorphous materials in thin films. Advanced characterization techniques for soft matter.

ACADEMIC APPOINTMENTS

- Professor, Materials Science and Engineering
- Member, Bio-X
- Affiliate, Precourt Institute for Energy
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Department Chair, Stanford University/Materials Science and Engineering, (2019- present)

HONORS AND AWARDS

- Walter J. Gores Award for Excellence in Teaching, Stanford University (2016)
- Highly Cited Researcher in Materials Science, ISI/Clarivate (2015-)
- Tau Beta Pi Award for Excellence in Undergraduate Teaching, Stanford University (2013)
- Early Career Award, SPIE (2010)
- CAREER Award, NSF (2007-2011)
- Untenured Faculty Award, 3M (2007-2009)
- Outstanding Performance Award, PARC (2003, 2004)
- Award for Outstanding Students Abroad, Italian University Council (1997)
- John Tyssowski Memorial Fellow, UC Berkeley (1997)
- Fellow, Fulbright (1995-2000)

PROGRAM AFFILIATIONS

- Stanford SystemX Alliance

PROFESSIONAL EDUCATION

- PhD, UC Berkeley , Materials Science (2001)

LINKS

- Group Site: salleo.stanford.edu

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Novel materials and processing techniques for large-area and flexible electronic/photonic devices. Polymeric materials for electronics, bioelectronics, and biosensors.

Electrochemical devices for neuromorphic computing. Defects and structure/property studies of polymeric semiconductors, nano-structured and amorphous materials in thin films. Advanced characterization techniques for soft matter.

Teaching

COURSES

2021-22

- Thermodynamics and Phase Equilibria: MATSCI 181 (Aut)
- Thermodynamics and Phase Equilibria: MATSCI 211 (Aut)

2020-21

- Thermodynamics and Phase Equilibria: MATSCI 194 (Aut)
- Thermodynamics and Phase Equilibria: MATSCI 204 (Aut)

2019-20

- Electronic and Photonic Materials and Devices Laboratory: MATSCI 164, MATSCI 174 (Aut)
- Thermodynamics and Phase Equilibria: MATSCI 194 (Win)
- Thermodynamics and Phase Equilibria: MATSCI 204 (Win)

2018-19

- Electronic and Photonic Materials and Devices Laboratory: MATSCI 164, MATSCI 174 (Aut)
- Organic Semiconductors for Electronics and Photonics: MATSCI 343 (Spr, Sum)
- Thermodynamics and Phase Equilibria: MATSCI 194 (Win)
- Thermodynamics and Phase Equilibria: MATSCI 204 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Peter Csernica, Wes Michaels, Kirstin Schauble, Chris Siefe, Patrick Thornton, Oliver Zhao

Postdoctoral Faculty Sponsor

Gerrit Jan Dijk, Alexander Giovannitti, Aristide Gumyusenge, Adam Marks, Quentin Thiburce, Yael Tsarfati

Doctoral Dissertation Advisor (AC)

Luke Balhorn, Garrett LeCroy, Tyler Quill, Melissa Tan, Jeremy Treiber, Dante Zakhidov

Doctoral Dissertation Co-Advisor (AC)

Gan Chen, Michelle Chen, Christina Cheng, Max Holliday, Ali Mahdi, Weichen Wang

Master's Program Advisor

Gijun Lee

Doctoral (Program)

Luke Balhorn, Qing Lin, Ali Mahdi, Amnahir Pena-Alcantara, Tyler Quill, Dante Zakhidov

Postdoctoral Research Mentor

Alexander Giovannitti, Aristide Gumyusenge, Yael Tsarfati

Publications

PUBLICATIONS

- **Controlling Electrochemically Induced Volume Changes in Conjugated Polymers by Chemical Design: from Theory to Devices** *ADVANCED FUNCTIONAL MATERIALS*
Moser, M., Gladisch, J., Ghosh, S., Hidalgo, T., Ponder, J. F., Sheelamanthula, R., Thiburce, Q., Gasparini, N., Wadsworth, A., Salleo, A., Inal, S., Berggren, M., Zozoulenko, et al
2021
- **Dynamic lattice distortions driven by surface trapping in semiconductor nanocrystals.** *Nature communications*
Guzelturk, B., Cotts, B. L., Jasrasaria, D., Philbin, J. P., Hanifi, D. A., Koscher, B. A., Balan, A. D., Curling, E., Zajac, M., Park, S., Yazdani, N., Nyby, C., Kamysbayev, et al
2021; 12 (1): 1860
- **High-Gain Chemically Gated Organic Electrochemical Transistor** *ADVANCED FUNCTIONAL MATERIALS*
Tan, S., Giovannitti, A., Melianas, A., Moser, M., Cotts, B. L., Singh, D., McCulloch, I., Salleo, A.
2021
- **In situ Parallel Training of Analog Neural Network Using Electrochemical Random-Access Memory.** *Frontiers in neuroscience*
Li, Y., Xiao, T. P., Bennett, C. H., Isele, E., Melianas, A., Tao, H., Marinella, M. J., Salleo, A., Fuller, E. J., Talin, A. A.
2021; 15: 636127
- **How is flexible electronics advancing neuroscience research?** *Biomaterials*
Chen, Y., Rommelfanger, N. J., Mahdi, A. I., Wu, X., Keene, S. T., Obaid, A., Salleo, A., Wang, H., Hong, G.
2020; 268: 120559
- **Brush-Painted Solar Cells from Pre-Crystallized Components in a Nonhalogenated Solvent System Prepared by a Simple Stirring Technique** *MACROMOLECULES*
Nguyen, N. A., Himmelberger, S., Salleo, A., Mackay, M. E.
2020; 53 (19): 8276–85
- **Perovskite Color Detectors: Approaching the Efficiency Limit.** *ACS applied materials & interfaces*
Hossain, M. I., Khan, H. A., Kozawa, M., Qarony, W., Salleo, A., Hardeberg, J. Y., Fujiwara, H., Tsang, Y. H., Knipp, D.
2020
- **Reversible Doping and Photo Patterning of Polymer Nanowires** *ADVANCED ELECTRONIC MATERIALS*
Bedolla-Valdez, Z. I., Xiao, R., Cendra, C., Fergerson, A. S., Chen, Z., Gonel, G., Salleo, A., Yu, D., Moule, A. J.
2020
- **Towards biomimetic electronics that emulate cells** *MRS COMMUNICATIONS*
Lubrano, C., Matrone, G., Forro, C., Jahed, Z., Offenhaeusser, A., Salleo, A., Cui, B., Santoro, F.
2020; 10 (3): 398–412
- **Combining Photosynthesis and Photovoltaics: A Hybrid Energy-Harvesting System Using Optical Antennas.** *ACS applied materials & interfaces*
Tamang, A., Parsons, R., Lertchaiwarakul, C., Palanchoke, U., Kojima, H., Salleo, A., Nakamura, M., Knipp, D.

2020

- **Side Chain Redistribution as a Strategy to Boost Organic Electrochemical Transistor Performance and Stability.** *Advanced materials (Deerfield Beach, Fla.)*
Moser, M., Hidalgo, T. C., Surgailis, J., Gladisch, J., Ghosh, S., Sheelamantula, R., Thiburce, Q., Giovannitti, A., Salleo, A., Gasparini, N., Wadsworth, A., Zozoulenko, I., Berggren, et al
2020: e2002748
- **Organic neuromorphic devices: Past, present, and future challenges** *MRS BULLETIN*
Tuchman, Y., Mangoma, T. N., Gkoupidenis, P., van de Burgt, Y., John, R., Mathews, N., Shaheen, S. E., Daly, R., Malliaras, G. G., Salleo, A.
2020; 45 (8): 619–30
- **Roadmap on emerging hardware and technology for machine learning.** *Nanotechnology*
Xia, Q., Berggren, K. K., Likharev, K., Strukov, D. B., Jiang, H., Mikolajick, T., Querlioz, D., Salinga, M., Erickson, J., Pi, S., Xiong, F., Lin, P., Li, et al
2020
- **On the growth, structure and dynamics of P3EHT crystals** *JOURNAL OF MATERIALS CHEMISTRY C*
Faria, G. C., Duong, D. T., da Cunha, G., Selter, P., Strasso, L., Davidson, E. C., Segalman, R. A., Hansen, M., deAzevedo, E., Salleo, A.
2020; 8 (24): 8155–70
- **Vertically Stacked Perovskite Detectors for Color Sensing and Color Vision** *ADVANCED MATERIALS INTERFACES*
Qarony, W., Kozawa, M., Khan, H., Hossain, M., Salleo, A., Tsang, Y., Hardeberg, J., Fujiwara, H., Knipp, D.
2020
- **Optical and Electronic Ion Channel Monitoring from Native Human Membranes.** *ACS nano*
Pappa, A., Liu, H., Traberg-Christensen, W., Thiburce, Q., Savva, A., Pavia, A., Salleo, A., Daniel, S., Owens, R. M.
2020
- **Surfactant-Mediated Growth and Patterning of Atomically Thin Transition Metal Dichalcogenides.** *ACS nano*
Li, X., Kahn, E., Chen, G., Sang, X., Lei, J., Passarello, D., Oyedele, A. D., Zakhidov, D., Chen, K., Chen, Y., Hsieh, S., Fujisawa, K., Unocic, et al
2020
- **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.
2020: e2000270
- **Influence of Perovskite Interface Morphology on the Photon Management in Perovskite/Silicon Tandem Solar Cells.** *ACS applied materials & interfaces*
Qarony, W., Hossain, M. I., Jovanov, V., Salleo, A., Knipp, D., Tsang, Y. H.
2020
- **Energetic Control of Redox-Active Polymers toward Safe Organic Bioelectronic Materials.** *Advanced materials (Deerfield Beach, Fla.)*
Giovannitti, A., Rashid, R. B., Thiburce, Q., Paulsen, B. D., Cendra, C., Thorley, K., Moia, D., Mefford, J. T., Hanifi, D., Weiyuan, D., Moser, M., Salleo, A., Nelson, et al
2020: e1908047
- **Non-resonant metal-oxide metasurfaces for efficient perovskite solar cells** *SOLAR ENERGY*
Hossain, M. I., Yumnam, N., Qarony, W., Salleo, A., Wagner, V., Knipp, D., Tsang, Y. H.
2020; 198: 570–77
- **Reversible Electrochemical Phase Change in Monolayer to Bulk-like MoTe₂ by Ionic Liquid Gating.** *ACS nano*
Zakhidov, D., Rehn, D. A., Reed, E. J., Salleo, A.
2020
- **Balancing Ionic and Electronic Conduction for High-Performance Organic Electrochemical Transistors** *ADVANCED FUNCTIONAL MATERIALS*
Savva, A., Hallani, R., Cendra, C., Surgailis, J., Hidalgo, T. C., Wustoni, S., Sheelamantula, R., Chen, X., Kirkus, M., Giovannitti, A., Salleo, A., McCulloch, I., Inal, et al
2020
- **Modification of Indacenodithiophene-Based Polymers and Its Impact on Charge Carrier Mobility in Organic Thin-Film Transistors.** *Journal of the American Chemical Society*
Wadsworth, A., Chen, H., Thorley, K. J., Cendra, C., Nikolka, M., Bristow, H., Moser, M., Salleo, A., Anthopoulos, T. D., Sirringhaus, H., McCulloch, I.

2020

- **Uncovering the Effects of Metal Contacts on Monolayer MoS₂.** *ACS nano*
Schauble, K. n., Zakhidov, D. n., Yalon, E. n., Deshmukh, S. n., Grady, R. W., Cooley, K. A., McClellan, C. J., Vaziri, S. n., Passarello, D. n., Mohney, S. E., Toney, M. F., Sood, A. K., Salleo, et al
2020
- **A biohybrid synapse with neurotransmitter-mediated plasticity.** *Nature materials*
Keene, S. T., Lubrano, C. n., Kazemzadeh, S. n., Melianas, A. n., Tuchman, Y. n., Polino, G. n., Scognamiglio, P. n., Cinà, L. n., Salleo, A. n., van de Burgt, Y. n., Santoro, F. n.
2020
- **Self-Assembly of Mammalian-Cell Membranes on Bioelectronic Devices with Functional Transmembrane Proteins.** *Langmuir : the ACS journal of surfaces and colloids*
Liu, H. Y., Pappa, A. M., Pavia, A. n., Pitsalidis, C. n., Thiburce, Q. n., Salleo, A. n., Owens, R. M., Daniel, S. n.
2020
- **Engineering Optically Switchable Transistors with Improved Performance by Controlling Interactions of Diarylethenes in Polymer Matrices.** *Journal of the American Chemical Society*
Hou, L. n., Leydecker, T. n., Zhang, X. n., Rekab, W. n., Herder, M. n., Cendra, C. n., Hecht, S. n., McCulloch, I. n., Salleo, A. n., Orgiu, E. n., Samori, P. n.
2020; 142 (25): 11050–59
- **Nonequilibrium Thermodynamics of Colloidal Gold Nanocrystals Monitored by Ultrafast Electron Diffraction and Optical Scattering Microscopy.** *ACS nano*
Guzelturk, B. n., Utterback, J. K., Coropceanu, I. n., Kamysbayev, V. n., Janke, E. M., Zajac, M. n., Yazdani, N. n., Cotts, B. L., Park, S. n., Sood, A. n., Lin, M. F., Reid, A. H., Kozina, et al
2020
- **Charge transport in high-mobility conjugated polymers and molecular semiconductors.** *Nature materials*
Fratini, S. n., Nikolka, M. n., Salleo, A. n., Schweicher, G. n., Siringhaus, H. n.
2020
- **Mid-infrared emission and absorption from GeSn/Ge core-shell nanowires with nanophotonic light extraction**
Peng, S., Braun, M., Meng, A., Shang, Z., Salleo, A., McIntyre, P. C., IEEE
IEEE.2020
- **Tuning the bandgap of Cs₂AgBiBr₆ through dilute tin alloying** *CHEMICAL SCIENCE*
Lindquist, K. P., Mack, S. A., Slavney, A. H., Leppert, L., Gold-Parker, A., Stebbins, J. F., Salleo, A., Toney, M. F., Neaton, J. B., Karunadasa, H. I.
2019; 10 (45): 10620–28
- **Phototuning Selectively Hole and Electron Transport in Optically Switchable Ambipolar Transistors** *ADVANCED FUNCTIONAL MATERIALS*
Rekab, W., Leydecker, T., Hou, L., Chen, H., Kirkus, M., Cendra, C., Herder, M., Hecht, S., Salleo, A., McCulloch, I., Orgiu, E., Samori, P.
2019
- **Impact of Liquid-Crystalline Chain Alignment on Charge Transport in Conducting Polymers** *MACROMOLECULES*
Rudnicki, P. E., MacPherson, Q., Balhorn, L., Feng, B., Qin, J., Salleo, A., Spakowitz, A. J.
2019; 52 (22): 8932–39
- **The Role of Morphology in Optically Switchable Transistors Based on a Photochromic Molecule/p-Type Polymer Semiconductor Blend** *ADVANCED FUNCTIONAL MATERIALS*
Carroli, M., Duong, D. T., Buchaca-Domingo, E., Liscio, A., Borjesson, K., Herder, M., Palermo, V., Hecht, S., Stingelin, N., Salleo, A., Orgiu, E., Samori, P.
2019
- **Organic Transistors Incorporating Lipid Monolayers for Drug Interaction Studies** *ADVANCED MATERIALS TECHNOLOGIES*
Cavassin, P., Pappa, A., Pitsalidis, C., Barbosa, H. P., Colucci, R., Saez, J., Tuchman, Y., Salleo, A., Faria, G. C., Owens, R. M.
2019
- **Anisotropic Polaron Delocalization in Conjugated Homopolymers and Donor-Acceptor Copolymers** *CHEMISTRY OF MATERIALS*
Ghosh, R., Luscombe, C. K., Hamsch, M., Mannsfeld, S. B., Salleo, A., Spano, F. C.
2019; 31 (17): 7033–45

- **Enhancing the energy conversion efficiency of low mobility solar cells by a 3D device architecture** *JOURNAL OF MATERIALS CHEMISTRY C*
Qarony, W., Hossain, M., Tamang, A., Jovanov, V., Salleo, A., Knipp, D., Tsang, Y.
2019; 7 (33): 10289–96
- **Color Sensing by Optical Antennas: Approaching the Quantum Efficiency Limit** *ACS PHOTONICS*
Tamang, A., Parsons, R., Palanchoke, U., Stiebig, H., Wagner, V., Salleo, A., Knipp, D.
2019; 6 (8): 2041–48
- **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.
2019; 364 (6440): 570+
- **High-mobility, trap-free charge transport in conjugated polymer diodes** *NATURE COMMUNICATIONS*
Nikolka, M., Broch, K., Armitage, J., Hanifi, D., Nowack, P. J., Venkateshvaran, D., Sadhanala, A., Saska, J., Mascal, M., Jung, S., Lee, J., McCulloch, I., Salleo, et al
2019; 10
- **The role of the third component in ternary organic solar cells** *NATURE REVIEWS MATERIALS*
Gasparini, N., Salleo, A., McCulloch, I., Baran, D.
2019; 4 (4): 229–42
- **Increased charge carrier mobility and molecular packing of a solution sheared diketopyrrolopyrrole-based donor-acceptor copolymer by alkyl side chain modification** *JOURNAL OF MATERIALS CHEMISTRY C*
Hambusch, M., Erdmann, T., Chew, A. R., Bernstorff, S., Salleo, A., Kiriy, A., Voit, B., Mannsfeld, S. B.
2019; 7 (12): 3665–74
- **Rough versus planar interfaces: How to maximize the short circuit current of perovskite single and tandem solar cells** *MATERIALS TODAY ENERGY*
Qarony, W., Hossain, M., Salleo, A., Knipp, D., Tsang, Y.
2019; 11: 106–13
- **Influence of Water on the Performance of Organic Electrochemical Transistors** *CHEMISTRY OF MATERIALS*
Savva, A., Cendra, C., Giugni, A., Torre, B., Surgailis, J., Ohayon, D., Giovannitti, A., McCulloch, I., Di Fabrizio, E., Salleo, A., Rivnay, J., Inal, S.
2019; 31 (3): 927–37
- **Role of the Anion on the Transport and Structure of Organic Mixed Conductors** *ADVANCED FUNCTIONAL MATERIALS*
Cendra, C., Giovannitti, A., Savva, A., Venkatraman, V., McCulloch, I., Salleo, A., Inal, S., Rivnay, J.
2019; 29 (5)
- **Mechanisms for Enhanced State Retention and Stability in Redox-Gated Organic Neuromorphic Devices** *ADVANCED ELECTRONIC MATERIALS*
Keene, S., Melianas, A., van de Burgt, Y., Salleo, A.
2019; 5 (2)
- **Additive solution deposition of multi-layered semiconducting polymer films for design of sophisticated device architectures** *JOURNAL OF MATERIALS CHEMISTRY C*
Murrey, T. L., Guo, K., Mulvey, J. T., Lee, O. A., Cendra, C., Bedolla-Valdez, Z. I., Salleo, A., Moulin, J., Hong, K., Moule, A. J.
2019; 7 (4): 953–60
- **Multifunctional, Room-Temperature Processable, Heterogeneous Organic Passivation Layer for Oxide Semiconductor Thin-Film Transistors.** *ACS applied materials & interfaces*
Tak, Y. J., Keene, S. T., Kang, B. H., Kim, W. G., Kim, S. J., Salleo, A. n., Kim, H. J.
2019
- **Wearable Organic Electrochemical Transistor Patch for Multiplexed Sensing of Calcium and Ammonium Ions from Human Perspiration.** *Advanced healthcare materials*
Keene, S. T., Fogarty, D. n., Cooke, R. n., Casadevall, C. D., Salleo, A. n., Parlak, O. n.
2019; e1901321
- **Tuning the bandgap of Cs₂AgBiBr₆ through dilute tin alloying.** *Chemical science*
Lindquist, K. P., Mack, S. A., Slavney, A. H., Leppert, L. n., Gold-Parker, A. n., Stebbins, J. F., Salleo, A. n., Toney, M. F., Neaton, J. B., Karunadasa, H. I.
2019; 10 (45): 10620–28

- **The Effect of Ring Expansion in Thienobenzobenzothienothiophene Polymers for Organic Field-Effect Transistors.** *Journal of the American Chemical Society*
Chen, H. n., Wadsworth, A. n., Ma, C. n., Nanni, A. n., Zhang, W. n., Nikolka, M. n., Luci, A. M., Perdigão, L. M., Thorley, K. J., Cendra, C. n., Larson, B. n., Rumbles, G. n., Anthopoulos, et al
2019
- **Parallel programming of an ionic floating-gate memory array for scalable neuromorphic computing.** *Science (New York, N.Y.)*
Fuller, E. J., Keene, S. T., Melianas, A. n., Wang, Z. n., Agarwal, S. n., Li, Y. n., Tuchman, Y. n., James, C. D., Marinella, M. J., Yang, J. J., Salleo, A. n., Talin, A. A.
2019
- **Redefining near-unity luminescence in quantum dots with photothermal threshold quantum yield.** *Science (New York, N.Y.)*
Hanifi, D. A., Bronstein, N. D., Koscher, B. A., Nett, Z., Swabeck, J. K., Takano, K., Schwartzberg, A. M., Maserati, L., Vandewal, K., van de Burgt, Y., Salleo, A., Alivisatos, A. P.
2019; 363 (6432): 1199–1202
- **Diffraction imaging of nanocrystalline structures in organic semiconductor molecular thin films.** *Nature materials*
Panova, O. n., Ophus, C. n., Takacs, C. J., Bustillo, K. C., Balhorn, L. n., Salleo, A. n., Balsara, N. n., Minor, A. M.
2019
- **High-mobility, trap-free charge transport in conjugated polymer diodes.** *Nature communications*
Nikolka, M. n., Broch, K. n., Armitage, J. n., Hanifi, D. n., Nowack, P. J., Venkateshvaran, D. n., Sadhanala, A. n., Saska, J. n., Mascal, M. n., Jung, S. H., Lee, J. K., McCulloch, I. n., Salleo, et al
2019; 10 (1): 2122
- **Optics of Perovskite Solar Cell Front Contacts.** *ACS applied materials & interfaces*
Hossain, M. I., Hongsingthong, A. n., Qarony, W. n., Sichanugrist, P. n., Konagai, M. n., Salleo, A. n., Knipp, D. n., Tsang, Y. H.
2019; 11 (16): 14693–701
- **The Mechanism of Dedoping PEDOT:PSS by Aliphatic Polyamines.** *The journal of physical chemistry. C, Nanomaterials and interfaces*
van der Pol, T. P., Keene, S. T., Saes, B. W., Meskers, S. C., Salleo, A. n., van de Burgt, Y. n., Janssen, R. A.
2019; 123 (39): 24328–37
- **High-Throughput Open-Air Plasma Activation of Metal-Oxide Thin Films with Low Thermal Budget** *ACS APPLIED MATERIALS & INTERFACES*
Tak, Y., Hilt, F., Keene, S., Kim, W., Dauskardt, R. H., Salleo, A., Kim, H.
2018; 10 (43): 37223–32
- **Unraveling the Effect of Conformational and Electronic Disorder in the Charge Transport Processes of Semiconducting Polymers** *ADVANCED FUNCTIONAL MATERIALS*
Chew, A. R., Ghosh, R., Pakhnyuk, V., Onorato, J., Davidson, E. C., Segalman, R. A., Luscombe, C. K., Spano, F. C., Salleo, A.
2018; 28 (41)
- **Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance** *ADVANCED ENERGY MATERIALS*
Wadsworth, A., Hamid, Z., Bidwell, M., Ashraf, R. S., Khan, J. I., Anjum, D. H., Cendra, C., Yan, J., Rezasoltani, E., Guilbert, A. Y., Azzouzi, M., Gasparini, N., Bannock, et al
2018; 8 (28)
- **Biomimetic Electronic Devices for Measuring Bacterial Membrane Disruption** *ADVANCED MATERIALS*
Pitsalidis, C., Pappa, A., Porel, M., Artim, C. M., Faria, G. C., Duong, D. D., Alabi, C. A., Daniel, S., Salleo, A., Owens, R. M.
2018; 30 (39): e1803130
- **Spectral Signatures and Spatial Coherence of Bound and Unbound Polarons in P3HT Films: Theory Versus Experiment** *JOURNAL OF PHYSICAL CHEMISTRY C*
Ghosh, R., Chew, A. R., Onorato, J., Pakhnyuk, V., Luscombe, C. K., Salleo, A., Spano, F. C.
2018; 122 (31): 18048–60
- **Approaching Perfect Light Incoupling in Perovskite and Silicon Thin Film Solar Cells by Moth Eye Surface Textures** *ADVANCED THEORY AND SIMULATIONS*
Qarony, W., Hossain, M., Dewan, R., Fischer, S., Meyer-Rochow, V., Salleo, A., Knipp, D., Tsang, Y.
2018; 1 (8)

- **Polymorphism controls the degree of charge transfer in a molecularly doped semiconducting polymer** *MATERIALS HORIZONS*
Jacobs, I. E., Cendra, C., Harrelson, T. F., Valdez, Z., Faller, R., Salleo, A., Moule, A. J.
2018; 5 (4): 655–60
- **A Universal Platform for Fabricating Organic Electrochemical Devices** *ADVANCED ELECTRONIC MATERIALS*
Duong, D. T., Tuchman, Y., Chakhranont, P., Cavassin, P., Colucci, R., Jaramillo, T. F., Salleo, A., Faria, G. C.
2018; 4 (7)
- **Molecularly selective nanoporous membrane-based wearable organic electrochemical device for noninvasive cortisol sensing.** *Science advances*
Parlak, O., Keene, S. T., Marais, A., Curto, V. F., Salleo, A.
2018; 4 (7): eaar2904
- **Optimized pulsed write schemes improve linearity and write speed for low-power organic neuromorphic devices** *JOURNAL OF PHYSICS D-APPLIED PHYSICS*
Keene, S. T., Melianas, A., Fuller, E. J., van de Burgt, Y., Talin, A., Salleo, A.
2018; 51 (22)
- **Copper interstitial recombination centers in Cu₃N** *PHYSICAL REVIEW B*
Yee, Y., Inoue, H., Hultqvist, A., Hanifi, D., Salleo, A., Magyari-Kope, B., Nishi, Y., Bent, S. F., Clemens, B. M.
2018; 97 (24)
- **Improving Quantum Yield of Upconverting Nanoparticles in Aqueous Media via Emission Sensitization** *NANO LETTERS*
Wisser, M. D., Fischer, S., Siefe, C., Alivisatos, A., Salleo, A., Dionne, J. A.
2018; 18 (4): 2689–95
- **Chemically Responsive Elastomers Exhibiting Unity-Order Refractive Index Modulation.** *Advanced materials (Deerfield Beach, Fla.)*
Wu, D. M., Solomon, M. L., Naik, G. V., Garcia-Etxarri, A., Lawrence, M., Salleo, A., Dionne, J. A.
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