Stanford

Guosong Hong

Assistant Professor of Materials Science and Engineering

Bio

BIO

Guosong Hong is an Assistant Professor of Materials Science and Engineering at Stanford University. His research integrates materials science, physics, and chemistry to address fundamental challenges in biology and medicine. The Hong Lab is internationally recognized for pioneering technologies in in vivo optical transparency, deep-tissue light delivery, and biophotonics-enabled neurotechnology. In 2024, the Hong Lab reported the world's first live transparent mice in Science, demonstrating that optical transparency in living animals can be achieved transiently and reversibly through materials-based control of light-tissue interactions. This discovery has since catalyzed a wave of follow-up studies worldwide, enabling new approaches to deep-tissue imaging, neural modulation, and light-based therapeutic applications. Dr. Hong's contributions have been recognized with several major honors, including the Presidential Early Career Award for Scientists and Engineers (PECASE), the Vilcek Prize for Creative Promise in Biomedical Science, the Sloan Research Fellowship in Physics, and the Walter J. Gores Award for Excellence in Teaching.

ACADEMIC APPOINTMENTS

- Assistant Professor, Materials Science and Engineering
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Fellow, American Institute for Medical and Biological Engineering (AIMBE) (2026)
- MIND Prize, Pershing Square Foundation (2026)
- Sloan Research Fellowship, Physics, Alfred P. Sloan Foundation (2026)
- Inaugural Biophotonics Discovery Impact of the Year Award, SPIE (2026)
- ETH Zürich Materials Research Prize for Young Researchers, ETH Zürich (2025)
- Vilcek Prizes for Creative Promise in Biomedical Science, Vilcek Foundation (2025)
- Presidential Early Career Award for Scientists and Engineers (PECASE), National Science Foundation (2025)
- Chemical and Molecular Bioengineering (CMBE) Rising Star Awardee, Biomedical Engineering Society (BMES) (2025)
- Young Investigator Award, International Conference on Ultrasound Engineering for Biomedical Applications (IC-UEBA) (2025)
- Top 10 Physics Breakthroughs of the Year, The Institute of Physics, UK (2024)
- Camille Dreyfus Teacher-Scholar Award, The Camille and Henry Dreyfus Foundation (2024)
- Young Innovator Award in Nano Research, Springer-Nature (2023)
- Nanoscale Emerging Investigators Award, The Royal Society of Chemistry (2023)

- 2022-23 Teaching Honor Roll, Stanford University (2023)
- Rita Allen Scholars Award, Rita Allen Foundation (2021)
- NSF CAREER Award, National Science Foundation (2021)
- Walter J. Gores Award for Excellence in Teaching, Stanford University (2021)
- Science PINS Prize for Neuromodulation, Science Magazine (2020)
- Highly Cited Researcher, Web of Science (2019-2025)
- '35 Innovators Under 35' Award, MIT Technology Review (2019)
- Pathway to Independence Award (Parent K99/R00), National Institutes of Health (2017)
- AHA Postdoctoral Fellowship, American Heart Association (2016)
- Honorable Mention Award, The International Union of Pure and Applied Chemistry (IUPAC) International Award for Young Chemists (2015)
- Graduate Student Award, Materials Research Society (2014)
- William S. Johnson Graduate Fellowship, Stanford University (2013)
- Abbott Laboratory Stanford Graduate Fellowship, Stanford University (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Panelist, NSF CAREER Review Panel (2021 - present)
- Judge, Selection Committee for MIT Technology Review's "Innovators Under 35" Global List (2022 - present)
- Ad-hoc member, NIH ZRG1 NV-J(52) Special Emphasis Panel (2025 - 2025)
- Ad-hoc member, NIH NINDS Small Business Innovation and Technology Transfer Research Applications (SBIR/STTR) review panel (2025 - 2025)
- Ad-hoc member, NIH BRAIN R21 review panel (2024 - 2024)
- Ad-hoc member, NIH Learning, Memory and Decision Neuroscience (LMDN) Study Section (2021 - 2021)
- Associate Editor, Journal of Biomedical Optics (2024 - 2025)
- Editorial Advisory Board, Matter (Cell Press) (2022 - present)
- Young Star Editor, Nano Research (Springer) (2019 - 2023)
- Leadership Council, Stanford Bio-X Program (2023 - present)
- Leadership Team, NSF NeuroTech Training Program (2023 - 2025)
- Member, Society for Neuroscience (2019 - present)
- Member, Biomedical Engineering Society (2015 - present)
- Member, Materials Research Society (2013 - present)
- Member, American Heart Association (2012 - present)
- Member, American Chemical Society (2010 - present)

PROFESSIONAL EDUCATION

- Postdoc training, Harvard University , Chemistry and Chemical Biology (2018)
- PhD, Stanford University , Chemistry (2014)

PATENTS

- Guosong Hong, Zihao Ou, Nicholas Joseph Rommelfanger, Shan Jiang, Mark L Brongersma, Yi-Shiou Duh, Su Zhao, Kenneth Brinson. "United States Patent US20250367330A1 Optical clearing enabled by the kramers-kronig relation", Leland Stanford Junior University, Dec 4, 2025
- Guosong Hong, Zihao Ou, Nicholas Joseph Rommelfanger, Shan Jiang, Mark L. Brongersma, Yi-Shiou Duh, Kenneth Brinson, Su Zhao. "United States Patent EP4452054A1 Optical clearing enabled by the kramers-kronig relation", Leland Stanford Junior University, Oct 30, 2024
- Guosong Hong, Xiang Wu, Paul Chong, Huiliang Wang, Fan Yang, Zihao Ou. "United States Patent US20220330832A1 Modulating Photosensitive Proteins with Mechanoluminescent Particles", Leland Stanford Junior University, Nov 25, 2020

- Guosong Hong, Jerry Chung-yu Lee, Ngan Fong Huang, John P. Cooke, Hongjie Dai. "United States Patent US10264974B2 High resolution imaging using near-infrared-II fluorescence", Leland Stanford Junior University, Apr 23, 2019
- Guosong Hong, Alexander Antaris, Shuo Diao, Hongjie Dai. "United States Patent US10261298B1 Near-infrared-II confocal microscope and methods of use", Leland Stanford Junior University, Apr 16, 2019
- Hongjie Dai, Scott M. Tabakman, Guosong Hong, Bo Zhang. "United States Patent US9823246B2 Fluorescence enhancing plasmonic nanoscopic gold films and assays based thereon", Leland Stanford Junior University, Nov 21, 2017

LINKS

- My Lab Site: http://honglab.science
- Google Scholar: https://scholar.google.com/citations?user=lDKemKgAAAAJ&hl=en
- NIH MyBibliography: https://www.ncbi.nlm.nih.gov/myncbi/guosong.hong.1/bibliography/public/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Guosong Hong is an Assistant Professor of Materials Science and Engineering at Stanford University. His research integrates materials science, physics, and chemistry to develop new approaches for interacting with living systems in noninvasive ways. The Hong Lab focuses on understanding and controlling light-matter interactions in biological tissue to overcome fundamental barriers in imaging, sensing, and neuromodulation.

A central theme of his work is the development of materials-enabled photonic strategies that allow light to penetrate deep into living tissue. His laboratory pioneered the concept of in vivo optical transparency, demonstrating that appropriately designed absorbing molecules can transiently reduce light scattering in biological tissue by modifying the refractive index of water. This physics-guided approach enables unprecedented optical access to internal organs and deep biological structures in living animals without surgery, opening new opportunities for biological observation and intervention. His laboratory is credited with the creation of the world’s first transparent live mouse, reported in 2024 in Science.

In parallel, Prof. Hong’s group develops noninvasive methods for delivering light to deep tissue using alternative physical modalities. His lab introduced ultrasound-triggered mechanoluminescent materials that act as internally-generated light sources, enabling spatially precise optical stimulation and imaging at depths inaccessible to conventional optics. These approaches support applications in neuromodulation, deep-brain imaging, and the study of dynamic physiological processes in freely behaving animals.

His research emphasizes quantitative understanding of light-tissue interactions, including scattering, absorption, and emission effects, and translates these principles into practical approaches. The Hong Lab works across molecular synthesis, nanomaterials, photonics, and in vivo experimentation, with the goal of enabling new capabilities for visualizing and modulating biological function in living systems.

Prof. Hong’s work has broad implications for neurotechnology, biomedical imaging, and translational biophotonics. His research has been supported by federal agencies including the National Science Foundation and the National Institutes of Health, and has led to high-impact publications and interdisciplinary collaborations across engineering, medicine, and the life sciences. In addition to research, he is strongly committed to education and mentorship at the intersection of materials science and biology.

Teaching

COURSES

2025-26

- Electronic and Photonic Materials and Devices Laboratory: MATSCI 164, MATSCI 174 (Spr)

- Energy Materials Laboratory: MATSCI 161, MATSCI 171 (Aut)

2024-25

- Electronic and Photonic Materials and Devices Laboratory: MATSCI 164, MATSCI 174 (Spr)
- Energy Materials Laboratory: MATSCI 161, MATSCI 171 (Aut)
- Materials Advances in Neurotechnology: MATSCI 384 (Win)
- NeuroTech Training Seminar: STATS 242 (Win)

2023-24

- Electronic and Photonic Materials and Devices Laboratory: MATSCI 164, MATSCI 174 (Spr)
- Energy Materials Laboratory: MATSCI 161, MATSCI 171 (Win)
- Materials Advances in Neurotechnology: MATSCI 384 (Aut)
- NeuroTech Training Seminar: NSUR 239, STATS 242 (Win)

2022-23

- Electronic and Photonic Materials and Devices Laboratory: MATSCI 164, MATSCI 174 (Spr)
- Energy Materials Laboratory: MATSCI 161, MATSCI 171 (Win)
- Materials Advances in Neurotechnology: MATSCI 384 (Aut)
- NeuroTech Training Seminar: NSUR 239, STATS 242 (Win)

Publications

PUBLICATIONS

- **An ultrasound-scanning in vivo light source.** *Nature materials*
  Jiang, S., Malinao, M. G., Yang, F., Zeng, Y., Hou, S. S., Wu, X., Rommelfanger, N. J., Chaunsali, L., Zhao, S., Cui, H., Ding, J., Chen, X., Zhou, et al
  2026
- **Acoustic printing of conductive polymers.** *Proceedings of the National Academy of Sciences of the United States of America*
  Trepka, E., Cooper, L., Brinson, K., Thompson, S., Malinao, M. G., Rommelfanger, N. J., Fordyce, P., Hong, G.
  2025; 122 (48): e2509652122
- **Precision at Deep Brain: Noninvasive Temporal Interference Stimulation.** *ACS nano*
  Xu, S., Cui, H., Xiao, X., Manshaii, F., Hong, G., Chen, J.
  2025
- **Radioplasmonic absorption in a biological tissue phantom** *PHYSICAL REVIEW APPLIED*
  Rommelfanger, N. J., Malinao, M., Brinson, K., Bancroft, A. M., Hong, G.
  2025; 24 (3)
- **Color-neutral and reversible tissue transparency enables longitudinal deep-tissue imaging in live mice.** *Proceedings of the National Academy of Sciences of the United States of America*
  Keck, C. H., Schmidt, E. L., Roth, R. H., Floyd, B. M., Tsai, A. P., Garcia, H. B., Cui, M., Chen, X., Wang, C., Park, A., Zhao, S., Liao, P. A., Casey, et al
  2025; 122 (35): e2504264122
- **An ultrasound-scanningin vivolight source.** *Research square*
  Jiang, S., Malinao, M. G., Yang, F., Zeng, Y., Hou, S. S., Wu, X., Rommelfanger, N. J., Chaunsali, L., Ding, J., Chen, X., Zhou, Q., Sontheimer, H., Hong, et al
  2025
- **Achieving transient and reversible optical transparency in live mice with tartrazine.** *Nature protocols*
  Keck, C. H., Schmidt, E. L., Zhao, S., Liu, Z., Zhang, L., Cui, M., Chen, X., Wang, C., Cui, H., Brongersma, M. L., Hong, G.
  2025

- **Chronic recording of brain activity in awake toads.** *Journal of neuroscience methods*
  Shaykevich, D. A., Woods, G. A., O'Connell, L. A., Hong, G.
  2025: 110449

- **Aging-dependent evolving electrochemical potentials of biomolecular condensates regulate their physicochemical activities.** *Nature chemistry*
  Yu, W., Guo, X., Xia, Y., Ma, Y., Tong, Z., Yang, L., Song, X., Zare, R. N., Hong, G., Dai, Y.
  2025

- **Thermal Processing Creates Water-Stable PEDOT:PSS Films for Bioelectronics.** *Advanced materials (Deerfield Beach, Fla.)*
  Doshi, S., Forner, M. O., Wang, P., Hadwe, S. E., Jin, A. T., Dijk, G., Brinson, K., Lim, J., Dominguez-Alfaro, A., Lim, C. Y., Salleo, A., Barone, D. G., Hong, et al
  2025: e2415827

- **Color-neutral and reversible tissue transparency enables longitudinal deep-tissue imaging in live mice.** *bioRxiv : the preprint server for biology*
  Keck, C. H., Schmidt, E. L., Roth, R. H., Floyd, B. M., Tsai, A. P., Garcia, H. B., Cui, M., Chen, X., Wang, C., Park, A., Zhao, S., Liao, P. A., Casey, et al
  2025

- **Enhanced penetration depth in optical coherence tomography and photoacoustic microscopy in vivo enabled by absorbing dye molecules** *OPTICA*
  Miller, D. A., Xu, Y., Highland, R., Nguyen, V., Brown, W. J., Hong, G., Yao, J., Wax, A.
  2025; 12 (1): 24-30

- **Enhanced penetration depth in optical coherence tomography and photoacoustic microscopy in vivo enabled by absorbing dye molecules.** *Optica*
  Miller, D. A., Xu, Y., Highland, R., Nguyen, V. T., Brown, W. J., Hong, G., Yao, J., Wax, A.
  2025; 12 (1): 24-30

- **Direct-Print 3D Electrodes for Large-Scale, High-Density, and Customizable Neural Interfaces.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
  Wang, P., Wu, E. G., Uluşan, H., Zhao, E. T., Phillips, A. J., Kling, A., Hays, M. R., Vasireddy, P. K., Madugula, S., Vilkhu, R., Hierlemann, A., Hong, G., Chichilnisky, et al
  2024: e2408602

- **Chronic recording of brain activity in awake toads.** *bioRxiv : the preprint server for biology*
  Shaykevich, D. A., Woods, G. A., O'Connell, L. A., Hong, G.
  2024

- **Achieving optical transparency in live animals with absorbing molecules.** *Science (New York, N.Y.)*
  Ou, Z., Duh, Y. S., Rommelfanger, N. J., Keck, C. H., Jiang, S., Brinson, K., Zhao, S., Schmidt, E. L., Wu, X., Yang, F., Cai, B., Cui, H., Qi, et al
  2024; 385 (6713): eadm6869

- **Force-Based Neuromodulation.** *Accounts of chemical research*
  Cooper, L., Malinao, M. G., Hong, G.
  2024

- **Mechanoluminescent Light Sources Based on Nanostructured Systems for Biomedical Applications: A Review** *ACS APPLIED NANO MATERIALS*
  Yang, M., Ge, X., Zheng, L., Huang, Y., Zhong, J., Tu, D., Hong, G., Yang, F.
  2024

- **Near-infrared II fluorescence imaging** *NATURE REVIEWS METHODS PRIMERS*
  Schmidt, E., Ou, Z., Ximendes, E., Cui, H., Keck, C. H. C., Jaque, D., Hong, G.
  2024; 4 (1)

- **Mechanoluminescence and Mechanical Quenching of Afterglow Luminescent Particles for Wearable Photonic Display** *ADVANCED FUNCTIONAL MATERIALS*
  Kim, S., Yang, F., Jung, H., Hong, G., Hahn, S.
  2024

- **Activation of mechanoluminescent nanotransducers by focused ultrasound enables light delivery to deep-seated tissue in vivo.** *Nature protocols*
  Jiang, S., Wu, X., Yang, F., Rommelfanger, N. J., Hong, G.
  2023
- **A Nanozyme-Based Electrode for High-Performance Neural Recording.** *Advanced materials (Deerfield Beach, Fla.)*
  Liu, S., Wang, Y., Zhao, Y., Liu, L., Sun, S., Zhang, S., Liu, H., Liu, S., Li, Y., Yang, F., Jiao, M., Sun, X., Zhang, et al
  2023: e2304297
- **Wireless deep-brain neuromodulation using photovoltaics in the second near-infrared spectrum.** *Device*
  Cui, H., Zhao, S., Hong, G.
  2023; 1 (4)
- **Laminin-coated electronic scaffolds with vascular topography for tracking and promoting the migration of brain cells after injury.** *Nature biomedical engineering*
  Yang, X., Qi, Y., Wang, C., Zwang, T. J., Rommelfanger, N. J., Hong, G., Lieber, C. M.
  2023
- **Bioinspired nanotransducers for neuromodulation** *NANO RESEARCH*
  Yang, F., Wu, X., Cai, S., Hong, G.
  2023
- **Direct-print three-dimensional electrodes for large- scale, high-density, and customizable neural inter- faces.** *bioRxiv : the preprint server for biology*
  Wang, P., Wu, E. G., Uluşan, H., Phillips, A. J., Rose Hays, M., Kling, A., Zhao, E. T., Madugula, S., Vilkhu, R. S., Vasireddy, P. K., Hier-Lemann, A., Hong, G., Chichilnisky, et al
  2023
- **Nanotransducer-Enabled Deep-Brain Neuromodulation with NIR-II Light.** *ACS nano*
  Wu, X., Yang, F., Cai, S., Pu, K., Hong, G.
  2023
- **An optimized bioluminescent substrate for non-invasive imaging in the brain.** *Nature chemical biology*
  Su, Y., Walker, J. R., Hall, M. P., Klein, M. A., Wu, X., Encell, L. P., Casey, K. M., Liu, L. X., Hong, G., Lin, M. Z., Kirkland, T. A.
  2023
- **Advanced Light Delivery Materials and Systems for Photomedicines.** *Advanced drug delivery reviews*
  Kim, S., Lee, G., Hong, G., Hyun Yun, S., Kwang Hahn, S.
  2023: 114729
- **Principles and applications of sono-optogenetics.** *Advanced drug delivery reviews*
  Yang, F., Kim, S. J., Wu, X., Cui, H., Kwang Hahn, S., Hong, G.
  2023: 114711
- **Ultrasound-activated luminescence with color tunability enabled by mechanoluminescent colloids and perovskite quantum dots.** *Nanoscale*
  Yang, F., Cui, H., Wu, X., Kim, S., Hong, G.
  2023
- **Ultrasound-Triggered In Situ Photon Emission for Noninvasive Optogenetics.** *Journal of the American Chemical Society*
  Wang, W., Wu, X., Kevin Tang, K. W., Pyatnitskiy, I., Taniguchi, R., Lin, P., Zhou, R., Capocyan, S. L., Hong, G., Wang, H.
  2023
- **Systemically Delivered, Deep-Tissue Nanoscopic Light Sources** *PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER*
  Wu, X., Yang, F., Cai, S., Hong, G.
  2023; 177: 33-42
- **Protocol for wireless deep brain stimulation in freely behaving mice with infrared light.** *STAR protocols*
  Wu, X., Hong, G.
  2022; 4 (1): 101757

- **Controlled afterglow luminescent particles for photochemical tissue bonding.** *Light, science & applications*
  Kim, S., Choi, M., Hong, G., Hahn, S. K.
  2022; 11 (1): 314
- **Palette of Rechargeable Mechanoluminescent Fluids Produced by a Biomineral-Inspired Suppressed Dissolution Approach.** *Journal of the American Chemical Society*
  Yang, F., Wu, X., Cui, H., Jiang, S., Ou, Z., Cai, S., Hong, G.
  2022
- **Shedding light on neurons: optical approaches for neuromodulation.** *National science review*
  Jiang, S., Wu, X., Rommelfanger, N. J., Ou, Z., Hong, G.
  2022; 9 (10): nwac007
- **A biomineral-inspired approach of synthesizing colloidal persistent phosphors as a multicolor, intravital light source.** *Science advances*
  Yang, F., Wu, X., Cui, H., Ou, Z., Jiang, S., Cai, S., Zhou, Q., Wong, B. G., Huang, H., Hong, G.
  2022; 8 (30): eabo6743
- **Cooling the pain.** *Science (New York, N.Y.)*
  Jiang, S., Hong, G.
  2022; 377 (6601): 28-29
- **Scalable Three-Dimensional Recording Electrodes for Probing Biological Tissues.** *Nano letters*
  Lee, J. M., Lin, D., Hong, G., Kim, K., Park, H., Lieber, C. M.
  2022
- **Pristine carbon nanotubes are efficient absorbers at radio frequencies.** *Nanotechnology*
  Rommelfanger, N. J., Brinson, K., Bailey, J. E., Bancroft, A. M., Ou, Z., Hong, G.
  2022
- **Shedding light on neurons: optical approaches for neuromodulation** *NATIONAL SCIENCE REVIEW*
  Jiang, S., Wu, X., Rommelfanger, N. J., Ou, Z., Hong, G.
  2022
- **Tether-free photothermal deep-brain stimulation in freely behaving mice via wide-field illumination in the near-infrared-II window.** *Nature biomedical engineering*
  Wu, X., Jiang, Y., Rommelfanger, N. J., Yang, F., Zhou, Q., Yin, R., Liu, J., Cai, S., Ren, W., Shin, A., Ong, K. S., Pu, K., Hong, et al
  2022
- **Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes** *NATURE ELECTRONICS*
  Chen, C., Lin, Y., Zhou, W., Gong, M., He, Z., Shi, F., Li, X., Wu, J., Lam, K., Wang, J., Yang, F., Zeng, Q., Guo, et al
  2021
- **Learning from the brain's architecture: bioinspired strategies towards implantable neural interfaces.** *Current opinion in biotechnology*
  Rommelfanger, N. J., Keck, C. H., Chen, Y., Hong, G.
  2021; 72: 8-12
- **On the feasibility of wireless radio frequency ablation using nanowire antennas** *APL MATERIALS*
  Rommelfanger, N. J., Hong, G.
  2021; 9 (7): 071103
- **Bioinspired nanoantennas for opsin sensitization in optogenetic applications: a theoretical investigation.** *Multifunctional materials*
  Keck, C. H., Rommelfanger, N. J., Ou, Z., Hong, G.
  2021; 4 (2)
- **Nanotransducers for Wireless Neuromodulation.** *Matter*
  Li, X., Xiong, H., Rommelfanger, N., Xu, X., Youn, J., Slesinger, P. A., Hong, G., Qin, Z.
  2021; 4 (5): 1484-1510
- **Differential Heating of Metal Nanostructures at Radio Frequencies** *PHYSICAL REVIEW APPLIED*
  Rommelfanger, N. J., Ou, Z., Keck, C. H. C., Hong, G.

2021; 15 (5)

- **Differential heating of metal nanostructures at radio frequencies.** *Physical review applied*
  Rommelfanger, N. J., Ou, Z., Keck, C. H., Hong, G.
  2021; 15 (5)
- **All-Tissue-like Multifunctional Optoelectronic Mesh for Deep-Brain Modulation and Mapping.** *Nano letters*
  Lee, J. M., Lin, D., Kim, H., Pyo, Y., Hong, G., Lieber, C. M., Park, H.
  2021
- **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
- **An "All-in-One" Catheter: Surgery of the Future** *MATTER*
  Chen, Y., Yin, R., Hong, G.
  2020; 3 (6): 1829–31
- **Conjugated Polymers Enable a Liquid Retinal Prosthesis** *TRENDS IN CHEMISTRY*
  Rommelfanger, N. J., Hong, G.
  2020; 2 (11): 961–64
- **Conjugated Polymers Enable a Liquid Retinal Prosthesis.** *Trends in chemistry*
  Rommelfanger, N. J., Hong, G.
  2020; 2 (11): 961-964
- **Bioinspired Materials for In Vivo Bioelectronic Neural Interfaces.** *Matter*
  Woods, G. A., Rommelfanger, N. J., Hong, G.
  2020; 3 (4): 1087–1113
- **Seeing the sound.** *Science (New York, N.Y.)*
  Hong, G. n.
  2020; 369 (6504): 638
- **Atomic-Precision Gold Clusters for NIR-II Imaging.** *Advanced materials (Deerfield Beach, Fla.)*
  Liu, H., Hong, G., Luo, Z., Chen, J., Chang, J., Gong, M., He, H., Yang, J., Yuan, X., Li, L., Mu, X., Wang, J., Mi, et al
  2019: e1901015
- **Light-sheet microscopy in the near-infrared II window** *NATURE METHODS*
  Wang, F., Wan, H., Ma, Z., Zhong, Y., Sun, Q., Tian, Y., Qu, L., Du, H., Zhang, M., Li, L., Ma, H., Luo, J., Liang, et al
  2019; 16 (6): 545-+
- **Novel electrode technologies for neural recordings** *NATURE REVIEWS NEUROSCIENCE*
  Hong, G., Lieber, C. M.
  2019; 20 (6): 330–45
- **Light-sheet microscopy in the near-infrared II window.** *Nature methods*
  Wang, F., Wan, H., Ma, Z., Zhong, Y., Sun, Q., Tian, Y., Qu, L., Du, H., Zhang, M., Li, L., Ma, H., Luo, J., Liang, et al
  2019
- **Novel electrode technologies for neural recordings.** *Nature reviews. Neuroscience*
  Hong, G., Lieber, C. M.
  2019
- **Nanoenabled Direct Contact Interfacing of Syringe-Injectable Mesh Electronics.** *Nano letters*
  Lee, J. M., Hong, G. n., Lin, D. n., Schuhmann, T. G., Sullivan, A. T., Viveros, R. D., Park, H. G., Lieber, C. M.
  2019
- **Sono-optogenetics facilitated by a circulation-delivered rechargeable light source for minimally invasive optogenetics.** *Proceedings of the National Academy of Sciences of the United States of America*
  Wu, X. n., Zhu, X. n., Chong, P. n., Liu, J. n., Andre, L. N., Ong, K. S., Brinson, K. n., Mahdi, A. I., Li, J. n., Fenno, L. E., Wang, H. n., Hong, G. n.

2019

- **Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes.** *Neuron*
  Tran, N. M., Shekhar, K. n., Whitney, I. E., Jacobi, A. n., Benhar, I. n., Hong, G. n., Yan, W. n., Adiconis, X. n., Arnold, M. E., Lee, J. M., Levin, J. Z., Lin, D. n., Wang, et al
  2019

- **Tissue-like Neural Probes for Understanding and Modulating the Brain** *BIOCHEMISTRY*
  Hong, G., Viveros, R. D., Zwang, T. J., Yang, X., Lieber, C. M.
  2018; 57 (27): 3995–4004

- **A method for single-neuron chronic recording from the retina in awake mice** *SCIENCE*
  Hong, G., Fu, T., Qiao, M., Viveros, R. D., Yang, X., Zhou, T., Lee, J., Park, H., Sanes, J. R., Lieber, C. M.
  2018; 360 (6396): 1447-+

- **Mesh electronics: a new paradigm for tissue-like brain probes** *CURRENT OPINION IN NEUROBIOLOGY*
  Hong, G., Yang, X., Zhou, T., Lieber, C. M.
  2018; 50: 33–41

- **3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates** *ADVANCED MATERIALS*
  Zhu, S., Herraiz, S., Yue, J., Zhang, M., Wan, H., Yang, Q., Ma, Z., Wang, Y., He, J., Antaris, A. L., Zhong, Y., Diao, S., Feng, et al
  2018; 30 (13): e1705799

- **A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues** *NATURE COMMUNICATIONS*
  Wan, H., Yue, J., Zhu, S., Uno, T., Zhang, X., Yang, Q., Yu, K., Hong, G., Wang, J., Li, L., Ma, Z., Gao, H., Zhong, et al
  2018; 9: 1171

- **Mesh Nanoelectronics: Seamless Integration of Electronics with Tissues** *ACCOUNTS OF CHEMICAL RESEARCH*
  Dai, X., Hong, G., Gao, T., Lieber, C. M.
  2018; 51 (2): 309–18

- **Highly scalable multichannel mesh electronics for stable chronic brain electrophysiology** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Fu, T., Hong, G., Viveros, R. D., Zhou, T., Lieber, C. M.
  2017; 114 (47): E10046–E10055

- **Syringe-Injectable Electronics with a Plug-and-Play Input/Output Interface** *NANO LETTERS*
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