



Mark Brongersma

Director, Geballe Laboratory for Advanced Materials (GLAM), Stephen Harris Professor, Professor of Materials Science and Engineering and, by courtesy, of Applied Physics

 Curriculum Vitae available Online

CONTACT INFORMATION

- **Administrator**

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Bio

BIO

Mark Brongersma is a Professor in the Department of Materials Science and Engineering at Stanford University. He received his PhD in Materials Science from the FOM Institute in Amsterdam, The Netherlands, in 1998. From 1998-2001 he was a postdoctoral research fellow at the California Institute of Technology. During this time, he coined the term “Plasmonics” for a new device technology that exploits the unique optical properties of nanoscale metallic structures to route and manipulate light at the nanoscale. His current research is directed towards the development and physical analysis of nanostructured materials that find application in nanoscale electronic and photonic devices. Brongersma received a National Science Foundation Career Award, the Walter J. Gores Award for Excellence in Teaching, the International Raymond and Beverly Sackler Prize in the Physical Sciences (Physics) for his work on plasmonics, and is a Fellow of the Optical Society of America, the SPIE, and the American Physical Society.

ACADEMIC APPOINTMENTS

- Professor, Materials Science and Engineering
- Professor (By courtesy), Applied Physics
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Affiliate, Precourt Institute for Energy
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Deputy Director of the Geballe Laboratory for Advanced Materials, Stanford, (2013- present)

HONORS AND AWARDS

- A F Harvey Engineering Research Prize, Institution of Engineering and Technology (2025)
- Fellow, Materials Research Society (2023)
- Stephen Harris Professor, Stanford University (2020)
- Highly Cited Researcher, Clarivate Analytics (2018 - Present)

- Fellow, SPIE (2011)
- Fellow, American Physical Society (2010)
- Raymond and Beverly Sackler Prize in the Physical Sciences for Physics, Tel Aviv University (2010)
- Fellow, Optical Society of America (2008)
- Walter J. Gores Award for Excellence in Teaching, Stanford (2007)
- CAREER Award, National Science Foundation (2004)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Engineering Research Visioning Alliance (ERVA) Taskforce, National Science Foundation (2025 - present)
- Scientific Advisor, Meta Materials (2016 - 2023)
- Co-founder of Rolith, Inc, Rolith, Inc (2008 - 2016)
- Elected Member, The Bohmische Physical Society (1999 - present)

PROGRAM AFFILIATIONS

- Stanford SystemX Alliance

PROFESSIONAL EDUCATION

- PhD, FOM Institute for Atomic and Molecular Physics, Amsterdam, The Netherlands , Materials Science and Engineering (1998)

LINKS

- Mark L. Brongersma: <https://brongersma.stanford.edu/>

Teaching

COURSES

2025-26

- Nanophotonics: EE 336, MATSCI 346 (Aut)

2024-25

- Electronic and Optical Properties of Solids: MATSCI 199, MATSCI 209 (Spr)
- Nanophotonics: EE 336, MATSCI 346 (Aut)
- Thin Film and Interface Microanalysis: MATSCI 323 (Win)

2023-24

- Electronic and Optical Properties of Solids: MATSCI 199, MATSCI 209 (Spr)
- Nanophotonics: EE 336, MATSCI 346 (Aut)

2022-23

- Electronic and Optical Properties of Solids: MATSCI 199, MATSCI 209 (Spr)
- Nanophotonics: EE 336, MATSCI 346 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Hamish Carr Delgado, Dali Cheng, Han Cui, Martin Gonzalez, Olivia Long, Baba Ogunlade, Kalee Rozyłowicz, Su Zhao

Postdoctoral Faculty Sponsor

Youngjin Kim, Mingna Liao, Chi-Ching Liu

Doctoral Dissertation Advisor (AC)

Joao Azaro Berenguer, Johan Carlstrom, Yi-Shiou Duh, Omid Hemmatyar, Juan Irurita Vernaza, Jinwoo Lee

Doctoral Dissertation Co-Advisor (AC)

MinJae Kim, Wiley Yu

Doctoral (Program)

Juan Irurita Vernaza

Publications

PUBLICATIONS

- **Metasurface-Enhanced Momentum-Resolved Circular Dichroism Spectroscopy.** *Nano letters*
Dado, R. S., Bordoloi, P., Xiong, Y., Liu, C. C., Brinkman, L. J., Moradifar, P., Pan, F., Tang, M. L., Brongersma, M., Dionne, J.
2026
- **Hybrid-2D Excitonic Metasurfaces for Complex Amplitude Modulation.** *Nano letters*
Hoekstra, T., Brongersma, M. L., van de Groep, J.
2026
- **Tartrazine clears live cells while preserving viability at high refractive indices and osmolality.** *bioRxiv : the preprint server for biology*
Hou, X., Cai, S., Cui, H., Liu, Z., Zhao, S., Zhang, L. Y., Baghdasaryan, A., Crunkleton, V., Brongersma, M. L., Hong, G.
2026
- **Soft photonic skins with dynamic texture and colour control.** *Nature*
Doshi, S., Gsken, N. A., Dijk, G., Carlstrm, J., Ortiz-Crdenas, J. E., Suzuki, P., Li, B., Fordyce, P. M., Salleo, A., Melosh, N. A., Brongersma, M. L.
2026; 649 (8096): 345-352
- **Achieving Optical Transparency in Human Skin with Absorbing Molecules**
Myung, D., Zhao, S., Manning, E. C. H., Brongersma, M., Winetraub, Y., Sarin, K., Hong, G.
edited by Tuchin, V. V., Leahy, M. J., Wang, R. K.
SPIE-INT SOC OPTICAL ENGINEERING.2026
- **Apparent Resonance Splitting in Self-Coupled Excitonic Systems** *ACS PHOTONICS*
Sarbjana, A., Li, Q., Danielsen, D., Selvin, S., Nguyen, D., Doan, M., Boggild, P., Brongersma, M. L., Raza, S.
2025
- **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
- **Near unity narrowband infrared thermal emitters on silicon with silicon carbide-germanium metasurfaces** *APL PHOTONICS*
Rufangura, P., Cui, Y., Liu, H., Carlstrom, J. D., Crozier, K., Brongersma, M. L., Yang, Y., Iacopi, F.
2025; 10 (8)
- **Acoustic wave modulation of gap plasmon cavities.** *Science (New York, N.Y.)*
Selvin, S. P., Esfandyarpour, M., Ji, A., Lee, Y. J., Yule, C., Song, J. H., Taghinejad, M., Brongersma, M. L.
2025; 389 (6759): 516-520
- **GHz-Speed Wavefront Shaping Metasurface Modulators Enabled by Resonant Electro-Optic Nanoantennas.** *Advanced materials (Deerfield Beach, Fla.)*
Dagli, S., Shim, J., Carr Delgado, H., Balch, H. B., Abdollahramezani, S., Chen, C. Y., Dolia, V., Klopfer, E., Dixon, J., Hu, J., Ogunlade, B., Song, J. H., Brongersma, et al
2025: e06790

- **Nonlocality in photonic materials and metamaterials: roadmap** *OPTICAL MATERIALS EXPRESS*
Monticone, F., Mortensen, N., Fernandez-Dominguez, A. I., Luo, Y., Zheng, X., Tserkezis, C., Khurgin, J. B., Shahbazyan, T., Chaves, A. J., Peres, N. M. R., Wegner, G., Busch, K., Hu, et al
2025; 15 (7): 1544-1709
- **Ion-Assisted Nanoscale Material Engineering in Atomic Layers.** *Nano letters*
Taghinejad, H., Taghinejad, M., Abdollahramezani, S., Li, Q., Woods, E. V., Tian, M., Eftekhari, A. A., Lyu, Y., Zhang, X., Ajayan, P. M., Cai, W., Brongersma, M. L., Analytis, 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
- **Dynamic Excitonic Beam Switching with Atomically-Thin Binary Blazed Gratings** *ADVANCED OPTICAL MATERIALS*
Guarneri, L., Bauer, T., Li, Q., Song, J., Selvin, S., Saunders, A. P., Liu, F., Brongersma, M. L., van de Groep, J.
2025
- **Highly Efficient, Tunable, Electro-Optic, Reflective Metasurfaces Based on Quasi-Bound States in the Continuum.** *ACS nano*
Damgaard-Carstensen, C., Yezekyan, T., Brongersma, M. L., Bozhevolnyi, S. I.
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
- **Routing Light Emission from Monolayer MoS₂ by Mie Resonances of Crystalline Silicon Nanospheres** *ACS APPLIED OPTICAL MATERIALS*
Ozawa, K., Sugimoto, H., Shima, D., Hinamoto, T., Habil, M., Lee, Y., Raza, S., Imaeda, K., Ueno, K., Brongersma, M. L., Fujii, M.
2025
- **The second optical metasurface revolution: moving from science to technology** *NATURE REVIEWS ELECTRICAL ENGINEERING*
Brongersma, M. L., Pala, R. A., Altug, H., Capasso, F., Chen, W., Majumdar, A., Atwater, H. A.
2025; 2 (2): 125-143
- **Optical devices as thin as atoms.** *Science (New York, N.Y.)*
Li, M., Li, Q., Brongersma, M. L., Atwater, H. A.
2024; 386 (6727): 1226-1228
- **Optoelectronic metadevices.** *Science (New York, N.Y.)*
Ha, S. T., Li, Q., Yang, J. K., Demir, H. V., Brongersma, M. L., Kuznetsov, A. I.
2024; 386 (6725): eadm7442
- **Electrochemically mutable soft metasurfaces.** *Nature materials*
Doshi, S., Ji, A., Mahdi, A. I., Keene, S. T., Selvin, S. P., Lalanne, P., Appel, E. A., Melosh, N. A., Brongersma, M. L.
2024
- **Understanding the Impact of Contact-Induced Strain on the Electrical Performance of Monolayer WS₂ Transistors.** *Nano letters*
Hoang, L., Jaikissoon, M., Koroğlu, Ç., Zhang, Z., Bennett, R. K., Song, J. H., Yang, J. A., Ko, J. S., Brongersma, M. L., Saraswat, K. C., Pop, E., Mannix, A. J.
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

- **High absorptivity nanotextured powders for additive manufacturing.** *Science advances*
Tertuliano, O. A., DePond, P. J., Lee, A. C., Hong, J., Doan, D., Capaldi, L., Brongersma, M., Gu, X. W., Matthews, M. J., Cai, W., Lew, A. J.
2024; 10 (36): eadp0003
- **Ten principles for responsible quantum innovation** *QUANTUM SCIENCE AND TECHNOLOGY*
Kop, M., Aboy, M., De Jong, E., Gasser, U., Minssen, T., Cohen, I., Brongersma, M., Quintel, T., Floridi, L., Laflamme, R.
2024; 9 (3)
- **Direct electron beam patterning of electro-optically active PEDOT:PSS.** *Nanophotonics*
Doshi, S., Ludescher, D., Karst, J., Floess, M., Carlström, J., Li, B., Mintz Hemed, N., Duh, Y. S., Melosh, N. A., Hentschel, M., Brongersma, M., Giessen, H.
2024; 13 (12): 2271-2280
- **Temperature-Dependent Excitonic Light Manipulation with Atomically Thin Optical Elements.** *Nano letters*
Guarneri, L., Li, Q., Bauer, T., Song, J. H., Saunders, A. P., Liu, F., Brongersma, M. L., van de Groep, J.
2024
- **Roadmap for Optical Metasurfaces.** *ACS photonics*
Kuznetsov, A. I., Brongersma, M. L., Yao, J., Chen, M. K., Levy, U., Tsai, D. P., Zheludev, N. I., Faraon, A., Arbabi, A., Yu, N., Chanda, D., Crozier, K. B., Kildishev, et al
2024; 11 (3): 816-865
- **Direct electron beam patterning of electro-optically active PEDOT:PSS** *NANOPHOTONICS*
Doshi, S., Ludescher, D., Karst, J., Floess, M., Carlstrom, J., Li, B., Hemed, N., Duh, Y., Melosh, N. A., Hentschel, M., Brongersma, M., Giessen, H.
2024
- **Determining hot-carrier transport dynamics from terahertz emission.** *Science (New York, N.Y.)*
Taghinejad, M., Xia, C., Hrtton, M., Lee, K. T., Kim, A. S., Li, Q., Guzeliturk, B., Kalousek, R., Xu, F., Cai, W., Lindenberg, A. M., Brongersma, M. L.
2023; 382 (6668): 299-305
- **Physics-Informed Machine Learning for Inverse Design of Optical Metamaterials** *ADVANCED PHOTONICS RESEARCH*
Sarkar, S., Ji, A., Jermain, Z., Lipton, R., Brongersma, M., Dayal, K., Noh, H.
2023
- **Off-axis metasurfaces for folded flat optics.** *Nature communications*
Born, B., Lee, S. H., Song, J. H., Lee, J. Y., Ko, W., Brongersma, M. L.
2023; 14 (1): 5602
- **Impact of substrates and quantum effects on exciton line shapes of 2D semiconductors at room temperature.** *Nanophotonics (Berlin, Germany)*
van de Groep, J., Li, Q., Song, J. H., Kik, P. G., Brongersma, M. L.
2023; 12 (16): 3291-3300
- **Transfer Matrix Method-Compatible Model for Metamaterial Stacks** *ACS PHOTONICS*
Song, J., Lalanne, P., Seo, M., Brongersma, M. L. L.
2023
- **A Purcell-enabled monolayer semiconductor free-space optical modulator** *NATURE PHOTONICS*
Li, Q., Song, J., Xu, F., van de Groep, J., Hong, J., Daus, A., Lee, Y., Johnson, A. C., Pop, E., Liu, F., Brongersma, M. L.
2023
- **Ultrafast Wavefront Shaping via Space-Time Refraction** *ACS PHOTONICS*
Fan, Q., Shaltout, A. M., van de Groep, J., Brongersma, M. L., Lindenberg, A. M.
2023
- **Controlling Valley-Specific Light Emission from Monolayer MoS₂ with Achiral Dielectric Metasurfaces.** *Nano letters*
Liu, Y., Lau, S. C., Cheng, W., Johnson, A., Li, Q., Simmerman, E., Karni, O., Hu, J., Liu, F., Brongersma, M. L., Heinz, T. F., Dionne, J. A.
2023

- **Impact of substrates and quantum effects on exciton line shapes of 2D semiconductors at room temperature** *NANOPHOTONICS*
van de Groep, J., Li, Q., Song, J., Kik, P. G., Brongersma, M. L.
2023
- **Multi-resonant Mie Resonator Arrays for Broadband Light Trapping in Ultrathin c-Si Solar Cells.** *Advanced materials (Deerfield Beach, Fla.)*
Lee, N., Xue, M., Hong, J., van de Groep, J., Brongersma, M. L.
2023: e2210941
- **Dynamically Tunable Optical Cavities with Embedded Nematic Liquid Crystalline Networks.** *Advanced materials (Deerfield Beach, Fla.)*
Zubritskaya, I., Cichelero, R., Faniayeu, I., Martella, D., Nocentini, S., Rudquist, P., Wiersma, D. S., Brongersma, M. L.
2023: e2209152
- **Nonlocal metasurface for circularly polarized light detection** *OPTICA*
Hong, J., Van De Groep, J., Lee, N., Kim, S., Lalanne, P., Kik, P. G., Brongersma, M. L.
2023; 10 (1): 134-141
- **Quantitative phase contrast imaging with a nonlocal angle-selective metasurface.** *Nature communications*
Ji, A., Song, J. H., Li, Q., Xu, F., Tsai, C. T., Tiberio, R. C., Cui, B., Lalanne, P., Kik, P. G., Miller, D. A., Brongersma, M. L.
2022; 13 (1): 7848
- **Metasurface optofluidics for dynamic control of light fields.** *Nature nanotechnology*
Li, Q., van de Groep, J., White, A. K., Song, J., Longwell, S. A., Fordyce, P. M., Quake, S. R., Kik, P. G., Brongersma, M. L.
2022
- **Creating the ultimate virtual reality display.** *Science (New York, N.Y.)*
Joo, W., Brongersma, M. L.
2022; 377 (6613): 1376-1378
- **Enhanced Light Emission from Monolayer MoS₂ by Doubly Resonant Spherical Si Nanoantennas** *ACS PHOTONICS*
Shinomiya, H., Sugimoto, H., Hinamoto, T., Lee, Y., Brongersma, M. L., Fujii, M.
2022; 9 (5): 1741-1747
- **Excitons in strained and suspended monolayer WSe₂** *2D MATERIALS*
Aslan, B., Yule, C., Yu, Y., Lee, Y., Heinz, T. F., Cao, L., Brongersma, M. L.
2022; 9 (1)
- **High-specific-power flexible transition metal dichalcogenide solar cells.** *Nature communications*
Nassiri Nazif, K., Daus, A., Hong, J., Lee, N., Vaziri, S., Kumar, A., Nitta, F., Chen, M. E., Kananian, S., Islam, R., Kim, K., Park, J., Poon, et al
2021; 12 (1): 7034
- **Photochemistry democratizes 3D nanoprinting** *NATURE PHOTONICS*
Braun, P. V., Brongersma, M. L.
2021; 15 (12): 871-873
- **Non-local metasurfaces for spectrally decoupled wavefront manipulation and eye tracking.** *Nature nanotechnology*
Song, J., van de Groep, J., Kim, S. J., Brongersma, M. L.
2021
- **Self-Assembled Nano-Lotus Pod Metasurface for Light Trapping** *ACS PHOTONICS*
Lee, N., Kim, R., Kim, J., Ko, J., Park, S., Kim, S., Brongersma, M. L., Shin, J.
2021; 8 (6): 1616-1622
- **Plasmon Launching and Scattering by Silicon Nanoparticles** *ACS PHOTONICS*
Assadillayev, A., Hinamoto, T., Fujii, M., Sugimoto, H., Brongersma, M. L., Raza, S.
2021; 8 (6): 1582-1591
- **Fundamental Limitations of Huygens' Metasurfaces for Optical Beam Shaping** *LASER & PHOTONICS REVIEWS*
Gigli, C., Li, Q., Chavel, P., Leo, G., Brongersma, M. L., Lalanne, P.
2021

- **Structural color from a coupled nanowire pair beyond the bonding and antibonding model** *OPTICA*
Li, Q., Wu, T., van de Groep, J., Lalanne, P., Brongersma, M. L.
2021; 8 (4): 464-470
- **Electrical tuning of phase-change antennas and metasurfaces.** *Nature nanotechnology*
Wang, Y., Landreman, P., Schoen, D., Okabe, K., Marshall, A., Celano, U., Wong, H. P., Park, J., Brongersma, M. L.
2021
- **High-Performance p-n Junction Transition Metal Dichalcogenide Photovoltaic Cells Enabled by MoOx Doping and Passivation.** *Nano letters*
Nassiri Nazif, K., Kumar, A., Hong, J., Lee, N., Islam, R., McClellan, C. J., Karni, O., van de Groep, J., Heinz, T. F., Pop, E., Brongersma, M. L., Saraswat, K. C.
2021
- **Atomic-Scale Control of Coherent Thermal Radiation** *ACS PHOTONICS*
Zhao, B., Song, J., Brongersma, M., Fan, S.
2021; 8 (3): 872-78
- **Nanoelectromechanical modulation of a strongly-coupled plasmonic dimer.** *Nature communications*
Song, J., Raza, S., van de Groep, J., Kang, J., Li, Q., Kik, P. G., Brongersma, M. L.
2021; 12 (1): 48
- **The road to atomically thin metasurface optics** *NANOPHOTONICS*
Brongersma, M. L.
2021; 10 (1): 643-54
- **Exciton Resonance Tuning in Atomically-Thin Optical Elements**
van de Groep, J., Song, J., Li, Q., Celano, U., Kik, P. G., Brongersma, M. L., IEEE
IEEE.2021
- **Quantitative Phase Contrast Imaging using Guided-mode Resonator Devices**
Ji, A., Song, J., Li, Q., Kik, P. G., Miller, D. A. B., Brongersma, M. L., IEEE
IEEE.2021
- **Direct laser writing of volumetric gradient index lenses and waveguides.** *Light, science & applications*
Ocier, C. R., Richards, C. A., Bacon-Brown, D. A., Ding, Q., Kumar, R., Garcia, T. J., van de Groep, J., Song, J., Cyphersmith, A. J., Rhode, A., Perry, A. N., Littlefield, A. J., Zhu, et al
2020; 9 (1): 196
- **Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Graphene-Silicon Photodetector.** *ACS nano*
Li, L., Wang, J., Kang, L., Liu, W., Yu, L., Zheng, B., Brongersma, M. L., Werner, D. H., Lan, S., Shi, Y., Xu, Y., Wang, X.
2020
- **All-solid-state spatial light modulator with independent phase and amplitude control for three-dimensional LiDAR applications.** *Nature nanotechnology*
Park, J., Jeong, B. G., Kim, S. I., Lee, D., Kim, J., Shin, C., Lee, C. B., Otsuka, T., Kyoung, J., Kim, S., Yang, K., Park, Y., Lee, et al
2020
- **An Over-Coupled Phase-Change Metasurface for Efficient Reflection Phase Modulation** *ADVANCED OPTICAL MATERIALS*
Park, J., Kim, S., Landreman, P., Brongersma, M. L.
2020
- **High quality factor phase gradient metasurfaces.** *Nature nanotechnology*
Lawrence, M., Barton, D. R., Dixon, J., Song, J., van de Groep, J., Brongersma, M. L., Dionne, J. A.
2020
- **Free-standing 2.7 μ m thick ultrathin crystalline silicon solar cell with efficiency above 12.0% (vol 70, 104466, 2020)** *NANO ENERGY*
Xue, M., Nazif, K., Lyu, Z., Jiang, J., Lu, C., Lee, N., Zang, K., Chen, Y., Zheng, T., Kamins, T. I., Brongersma, M. L., Saraswat, K. C., Harris, et al
2020; 72
- **Exciton resonance tuning of an atomically thin lens** *NATURE PHOTONICS*

van de Groep, J., Song, J., Celano, U., Li, Q., Kik, P. G., Brongersma, M. L.
2020

- **Free-standing 2.7 μm thick ultrathin crystalline silicon solar cell with efficiency above 12.0%** *NANO ENERGY*
Xue, M., Nazif, K., Lyu, Z., Jiang, J., Lu, C., Lee, N., Zang, K., Chen, Y., Zheng, T., Kamins, T., Brongersma, M. L., Saraswat, K. C., Harris, et al
2020; 70
- **Strained bilayer WSe₂ with reduced exciton-phonon coupling** *PHYSICAL REVIEW B*
Asian, O., Deng, M., Brongersma, M. L., Heinz, T. F.
2020; 101 (11)
- **Electrotunable liquid sulfur microdroplets.** *Nature communications*
Zhou, G. n., Yang, A. n., Wang, Y. n., Gao, G. n., Pei, A. n., Yu, X. n., Zhu, Y. n., Zong, L. n., Liu, B. n., Xu, J. n., Liu, N. n., Zhang, J. n., Li, et al
2020; 11 (1): 606
- **Metasurface-driven OLED displays beyond 10,000 pixels per inch.** *Science (New York, N.Y.)*
Joo, W. J., Kyoung, J. n., Esfandyarpour, M. n., Lee, S. H., Koo, H. n., Song, S. n., Kwon, Y. N., Song, S. H., Bae, J. C., Jo, A. n., Kwon, M. J., Han, S. H., Kim, et al
2020; 370 (6515): 459–63
- **Transparent multispectral photodetectors mimicking the human visual system.** *Nature communications*
Li, Q., van de Groep, J., Wang, Y., Kik, P. G., Brongersma, M. L.
2019; 10 (1): 4982
- **Spin-Switched Three-Dimensional Full-Color Scenes Based on a Dielectric Meta-hologram** *ACS PHOTONICS*
Feng, H., Li, Q., Wan, W., Song, J., Gong, Q., Brongersma, M. L., Li, Y.
2019; 6 (11): 2910–16
- **Anisotropic Metasurfaces as Tunable SERS Substrates for 2D Materials** *ACS PHOTONICS*
Thareja, V., Esfandyarpour, M., Kik, P. G., Brongersma, M. L.
2019; 6 (8): 1996–2004
- **A Light-Field Metasurface for High-Resolution Single-Particle Tracking** *NANO LETTERS*
Holsteen, A. L., Lin, D., Kauvar, I., Wetzstein, G., Brongersma, M. L.
2019; 19 (4): 2267–71
- **A Light-Field Metasurface for High-Resolution Single-Particle Tracking.** *Nano letters*
Holsteen, A. L., Lin, D., Kauvar, I., Wetzstein, G., Brongersma, M. L.
2019
- **Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum.** *Physical review letters*
Peng, S., Schilder, N. J., Ni, X., van de Groep, J., Brongersma, M. L., Alù, A., Khanikaev, A. B., Atwater, H. A., Polman, A.
2019; 122 (11): 117401
- **Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum** *PHYSICAL REVIEW LETTERS*
Peng, S., Schilder, N. J., Ni, X., van de Groep, J., Brongersma, M. L., Alu, A., Khanikaev, A. B., Atwater, H. A., Polman, A.
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