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### ACADEMIC APPOINTMENTS

- Phys Sci Res Assoc, T. H. Geballe Laboratory for Advanced Materials

### Publications

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#### PUBLICATIONS

- **Colorful low-emissivity paints for space heating and cooling energy savings.** *Proceedings of the National Academy of Sciences of the United States of America* Peng, Y., Lai, J. C., Xiao, X., Jin, W., Zhou, J., Yang, Y., Gao, X., Tang, J., Fan, L., Fan, S., Bao, Z., Cui, Y. 2023; 120 (34): e2300856120
- **Wireless, closed-loop, smart bandage with integrated sensors and stimulators for advanced wound care and accelerated healing.** *Nature biotechnology* Jiang, Y., Trotsuk, A. A., Niu, S., Henn, D., Chen, K., Shih, C. C., Larson, M. R., Mermin-Bunnell, A. M., Mittal, S., Lai, J. C., Saberi, A., Beard, E., Jing, et al 2022
- **Dynamic combinatorial chemistry in amine-appended porous melamine network for carbon capture** *MATTER* Xie, Y., Chen, B. 2022; 5 (9): 2574-2576
- **A scalable solid-state nanoporous network with atomic-level interaction design for carbon dioxide capture.** *Science advances* Mao, H., Tang, J., Day, G. S., Peng, Y., Wang, H., Xiao, X., Yang, Y., Jiang, Y., Chen, S., Halat, D. M., Lund, A., Lv, X., Zhang, et al 2022; 8 (31): eab06849
- **A tissue-like neurotransmitter sensor for the brain and gut.** *Nature* Li, J., Liu, Y., Yuan, L., Zhang, B., Bishop, E. S., Wang, K., Tang, J., Zheng, Y., Xu, W., Niu, S., Beker, L., Li, T. L., Chen, et al 2022; 606 (7912): 94-101
- **Coloured low-emissivity films for building envelopes for year-round energy savings** *NATURE SUSTAINABILITY* Peng, Y., Fan, L., Jin, W., Ye, Y., Huang, Z., Zhai, S., Luo, X., Ma, Y., Tang, J., Zhou, J., Greenburg, L. C., Majumdar, A., Fan, et al 2021
- **Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management.** *Nature communications* Peng, Y., Li, W., Liu, B., Jin, W., Schaad, J., Tang, J., Zhou, G., Wang, G., Zhou, J., Zhang, C., Zhu, Y., Huang, W., Wu, et al 2021; 12 (1): 6122
- **Origin of enhanced water oxidation activity in an iridium single atom anchored on NiFe oxyhydroxide catalyst** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Zheng, X., Tang, J., Gallo, A., Torres, J., Yu, X., Athanitis, C. J., Been, E., Ercius, P., Mao, H., Fakra, S. C., Song, C., Davis, R. C., Reimer, et al 2021; 118 (36)
- **Revealing Molecular Mechanisms in Hierarchical Nanoporous Carbon via Nuclear Magnetic Resonance** *MATTER*  
Mao, H., Tang, J., Xu, J., Peng, Y., Chen, J., Wu, B., Jiang, Y., Hou, K., Chen, S., Wang, J., Lee, H., Halat, D. M., Zhang, et al 2020; 3 (6): 2093–2107
  - **A Non-volatile View of Site-Specific Adsorption and Dynamics of VOCs and CO<sub>2</sub>** *MATTER*  
Gleason, K. K.  
2020; 3 (6): 1823–1824
  - **Designing hierarchical nanoporous membranes for highly efficient gas adsorption and storage.** *Science advances*  
Mao, H. n., Tang, J. n., Chen, J. n., Wan, J. n., Hou, K. n., Peng, Y. n., Halat, D. M., Xiao, L. n., Zhang, R. n., Lv, X. n., Yang, A. n., Cui, Y. n., Reimer, et al 2020; 6 (41)
  - **Surface-engineered mesoporous silicon microparticles as high-Coulombic-efficiency anodes for lithium-ion batteries** *NANO ENERGY*  
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  - **Direct/Alternating Current Electrochemical Method for Removing and Recovering Heavy Metal from Water Using Graphene Oxide Electrode.** *ACS nano*  
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