

Publication List of Prof. Z. Hugh Fan

Updated in December 2023

Referred Journal Publications

1. Z. H. Fan, D. J. Harrison, "Celebrating 30th Anniversary of a Pioneering Microfluidics Paper", *Lab on a Chip*, 23, **2023**, 4157–4159, DOI: 10.1039/d3lc90076b. (Editorial)
2. W. B. Vass, S. N. Shankar, J. A. Lednicky, Y. Yang, C. Manzananas, Y. Zhang, J. Boyette, J. Chen, Y. Chen, A. Shirkhani, M. Washeem, Z. H. Fan, A. Eiguren-Fernandez, A. Jutla, C. Y. Wu, "Detection and isolation of infectious SARS-CoV-2 omicron subvariants collected from residential settings", *Aerosol Science and Technology*, 57, **2023**, 1142–1153, DOI: 10.1080/02786826.2023.2251537.
3. M. Alipanah, C. Manzananas, X. Hai, J. A. Lednicky, A. Paniz-Mondolfi, J. G. Morris, Z. H. Fan, "Mayaro virus detection by integrating sample preparation with isothermal amplification in portable devices", *Analytical and Bioanalytical Chemistry*, 415, **2023**, 5605–5617, DOI: 10.1007/s00216-023-04856-8.
4. V. A. Pedrosa, K. Chen, T. J. George, Z. H. Fan, "Gold Nanoparticle-based Microfluidics Chips for Capture and Detection of Circulating Tumor Cells", *Biosensors*, 13, **2023**, 706 (9 pages), DOI: 10.3390/bios13070706.
5. H. Li, S. N. Shankar, C. T. Witanachchi, J. A. Lednicky, J. C. Loeb, M. M. Alam, Z. H. Fan, M. Lauzardo, K. Mohamed, A. Eiguren-Fernandez, A. Eiguren-Fernandez, C. Y. Wu, "Lack of SARS-CoV-2 in Environmental Samples Collected from September 2020-February 2021 in a University that Followed CDC Reopening Guidance", *Hygiene and Environmental Health Advances*, 7, **2023**, 100061 (8 pages), DOI:10.1016/j.heha.2023.100061.
6. C. Manzananas, E. Morrison, Y. S. Kim, M. Alipanah, G. Adedokun, S. Jin, T. Z. Osborne, Z. H. Fan, "Molecular Testing Devices for on-Site Detection of *E. coli* in Water Samples", *Scientific Reports*, 13, **2023**, 4245 (11 pages), DOI: 10.1038/s41598-023-31208-4.
7. W. B. Vass, J. A. Lednicky, S. N. Shankar, Z. H. Fan, A. Eiguren-Fernandez, C. Y. Wu, "Viable SARS-CoV-2 Delta Variant Detected in Aerosols in a Residential Setting with a Self-Isolating College Student with COVID-19", *Journal of Aerosol Science*, 165, **2022**, 106038 (12 pages), DOI: 10.1016/j.jaerosci.2022.106038.
8. P. Dopico, M. N. Le, B. Burgess, Z. Yang, Y. Zhao, Y. Wang, T. J. George, Z. H. Fan, "Longitudinal Study of Circulating Biomarkers in Patients with Resectable Pancreatic Ductal Adenocarcinoma", *Biosensors*, 12, **2022**, 206 (15 pages), DOI: 10.3390/bios12040206.
9. J. I. Varillas, K. Chen, P. Dopico, J. Zhang, T. J. George, Z. H. Fan, "Comparison of Sample Preparation Methods for Rare Cell Isolation in Microfluidic Devices", *Canadian Journal of Chemistry*, 100, **2022**, 512–519, DOI: 10.1139/cjc-2021-0229.
10. H. Li, S. N. Shankar, C. T. Witanachchi, J. A. Lednicky, J. C. Loeb, M. M. Alam, Z. H. Fan, J. A. Boyette, A. Eiguren-Fernandez, C. Y. Wu, "Environmental Surveillance for SARS-CoV-2 in Two Restaurants from a Mid-scale City that Followed U.S. CDC Reopening Guidance", *Aerosol and Air Quality Research*, 22, **2022**, 210304 (13 pages), DOI: 10.4209/aaqr.210304.
11. S. N. Shankar, C. T. Witanachchi, A. F. Morea, J. A. Lednicky, J. C. Loeb, M. M. Alam, Z. H. Fan, A. Eiguren-Fernandez, C.-Y. Wu, "SARS-CoV-2 in residential rooms of two self-isolating persons with COVID-19", *Journal of Aerosol Science*, 159, **2022**, 105870 (12 pages), DOI: 10.1016/j.jaerosci.2021.105870.
12. C. Manzananas, M. M. Alam, J. C. Loeb, J. A. Lednicky, C. Y. Wu, Z. H. Fan, "A Valve-Enabled Sample Preparation Device with Isothermal Amplification for Multiplexed Virus Detection at the Point-of-Care", *ACS Sensors*, 6, **2021**, 4176–4184, DOI: 10.1021/acssensors.1c01718.
13. H. Li, S. N. Shankar, C. T. Witanachchi, J. A. Lednicky, J. C. Loeb, M. M. Alam, Z. H. Fan, K. Mohamed, A. Eiguren-Fernandez, C. Y. Wu, "Environmental surveillance and

- transmission risk assessments for SARS-CoV-2 in a fitness center”, *Aerosol and Air Quality Research*, 21, **2021**, 210106 (14 pages), DOI:10.4209/aaqr.210106.
14. T. J. George, A. Ali, Y. Wang, J. Lee, A. M. Ivey, D. DeRemer, K. C. Daily, C. J. Allegra, S. J. Hughes, Z. H. Fan, M. E. Cameron, A. R. Judge, J. G. Trevino, “Phase II study of 5-fluorouracil, oxaliplatin plus dasatinib (FOLFOX-D) to promote inhibition of Src in first-line metastatic pancreatic adenocarcinoma”, *The Oncologist*, 26, **2021**, 1-12, DOI: 10.1002/onco.13853.
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 16. H. O. Fasanya, P. J. Dopico, Z. Yeager, Z. H. Fan, D. W. Siemann, "Using a combination of gangliosides and cell surface vimentin as surface biomarkers for isolating osteosarcoma cells in microfluidic devices", *Journal of Bone Oncology*, 28, **2021**, 100357 (8 pages).
 17. K. Sondhi, S. Avuthu, J. Richstein, Z. H. Fan, T. Nishida, "Fabrication and non-destructive characterization of Through-Plastic-Via (TPV) in Flexible Hybrid Electronics", *Flexible and Printed Electronics*, 6, **2021**, 025001 (12 pages).
 18. M. N. Le, Z. H. Fan, "Exosome Isolation Using Nanostructures and Microfluidic Devices", *Biomedical Materials*, 16, **2021**, 022005 (23 pages). (a review)
 19. J. A. Lednicky, M. Lauzardo, Z. H. Fan, A. Jutla, T. B. Tilly, M. Gangwar, M. Usmani, S. N. Shankar, K. Mohamed, A. Eiguren-Fernandez, C. J. Stephenson, Md. M. Alam, M. A. Elbadry, J. C. Loeb, K. Subramaniam, T. B. Waltzek, K. Cherabuddi, J. G. Morris, Jr., C-Y Wu, "Viable SARS-CoV-2 in the air of a hospital room with COVID-19 patients", *International Journal of Infectious Diseases*, 100, **2020**, 476–482. DOI: 10.1016/j.ijid.2020.09.025
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