

Theme 2-2: Drug Delivery, Microfluidics and Lab on a Chip - 2023

Title	Authors	Scopus Source title	Source type
Acoustically-Activated Liposomal Nanocarriers to Mitigate the Side Effects of Conventional Chemotherapy with a Focus on Emulsion-Liposomes	Zafar, M.N. Abuwatfa, W.H. Hussein, G.A.	Pharmaceutics	Journal
Comprehensive Study of a Diabetes Mellitus Mathematical Model Using Numerical Methods with Stability and Parametric Analysis	AlShurbaji, M. Kader, L.A. Hannan, H. Mortula, M. Hussein, G.A.	International Journal of Environmental Research and Public Health	Journal
Recent advances in Metal-Organic Frameworks as nanocarriers for triggered release of anticancer drugs: Brief history, biomedical applications, challenges and future perspective	Fatima, S.F. Sabouni, R. Garg, R. Goma, H.	Colloids and Surfaces B: Biointerfaces	Journal
Tumor vasculature vs tumor cell targeting: Understanding the latest trends in using functional nanoparticles for cancer treatment	Awad, N.S. Salkho, N.M. Abuwatfa, W.H. Paul, V. AlSawaf, N.M. Hussein, G.A.	OpenNano	Journal
A Model for Oxygen Transport from Blood in Microvessels to Tissue	Chebbi, R.	Applied Sciences (Switzerland)	Journal
Liposomes for the Treatment of Brain Cancer—A Review	Raju, R. Abuwatfa, W.H. Pitt, W.G. Hussein, G.A.	Pharmaceutics	Journal
Transferrin-Targeted Liposomes in Glioblastoma Therapy: A Review	Kawak, P. Sawaf, N.M.A. Pitt, W.G. Hussein, G.A.	International Journal of Molecular Sciences	Journal
Dynamics of thermocapillary-driven motion of liquid drops	Chebbi, R.	ACS Omega	Journal
Rheotaxis of sperm in fertile and infertile men	T. M. El-sherry, M. A. Abdel-Ghani, H. K. Abdel Hafez, and M. Abdelgawad	Systems Biology in Reproductive Medicine	Journal
Minimum movable droplet volume in digital microfluidics depends on the grounding scheme in addition to electrode size	Malik Al-Lababidi and Mohamed Abdelgawad	Sensors and Actuators A: Physical	Journal
Numerical investigation of a hybrid double layer microchannel heat sink with jet impingement, International Journal of Thermofluids	Yasmeen T. Mostafa, Mohamed F. El-Dosoky, Mohamed Abdelgawad, Othman Hassan	International Journal of Thermofluids	Journal
Numerical Characterization of Compliance of Thick PDMS Microchannels	Mohammed E. Elgack, Omar Ghannam and Mohamed Abdelgawad	The 6th International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS 2023)	Conference Proceeding
Limitations of the Non-floating Actuation Scheme in Digital Microfluidic Devices	Malik Al-Lababidi and Mohamed Abdelgawad	The 6th International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS 2023)	Conference Proceeding