

**Theme 2-2: Drug Delivery, Microfluidics and Lab on a Chip - 2019**

Title	Authors	Scopus Source title	Volume	Issue	Pages	Source type	Publication type	Open Access
Ultrasonically controlled albumin-conjugated liposomes for breast cancer therapy	Awad, N.S.   Paul, V.   Al-Sayah, M.H.   Hussein, G.A.	Artificial Cells, Nanomedicine and Biotechnology	47		1705-714	Journal	Article	Gold
Graphene-based drug delivery systems	Bai, R.G.   Hussein, G.A.	Biomimetic Nanoengineered Materials for Advanced Drug Delivery	-	-	149-168	Book	Chapter	
Liposomes in active, passive and acoustically-triggered drug delivery	Al Basha, S.   Salkho, N.   Dalibalta, S.   Hussein, G.A.	Mini-Reviews in Medicinal Chemistry	19	12	961-969	Journal	Review	Green
Modeling and bias-robust estimation of the acoustic release of chemotherapeutics from liposomes	Wadi, A.   Abdel-Hafez, M.   Hussein, G.A.	Journal of Biomedical Nanotechnology	15		1162-169	Journal	Article	Green
A Two-Zone Shear-Induced Red Blood Cell Migration Model for Blood Flow in Microvessels	Chebbi, R.	Frontiers in Physics	7	-	-	Journal	Article	Gold
Ultrasound mediated release from three targeted liposomes (Human serum albumin, transferrin and rgd)	Awad, N.S.   Paul, V.   Mahmoud, M.S.   Alsawafah, N.M.   Kawak, P.S.   Al Sayah, M.H.   Hussein, G.A.	Transactions of the Annual Meeting of the Society for Biomaterials and the Annual International Biomaterials Symposium	40	-	-	Conference Proceeding	Conference Paper	
Phenotyping of the thrashing forces exerted by partially immobilized: C. elegans using elastomeric micropillar arrays	Sofela, S.   Sahloul, S.   Stubbs, C.   Orozaliev, A.   Refai, F.S.   Esmael, A.M.   Fahs, H.   Abdelgawad, M.O.   Gunsalus, K.C.   Song, Y.-A.	Lab on a Chip	19	21	3685-3696	Journal	Article	
Multi-purpose machine vision platform for different microfluidics applications	Esmael, A.M.   ElMelegy, T.T.H.   Abdelgawad, M.	Biomedical Microdevices	21	3	-	Journal	Article	
CFD Investigation of the Effect of Cerebral Aneurysms Size on Wall Stresses and Strain	Hamdan, M.O.   Alargha, H.M.   Khashan, S.   Aziz, W.H.	2019 Advances in Science and Engineering Technology International Conferences, ASET 2019	-	-	-	Conference Proceeding	Conference Paper	
Nanoparticles synthesis using digital microfluidics	Abualsayed, A.   Abouelmagd, S.   Abdelgawad, M.	Proceedings of the 14th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2019	-	-	201-204	Conference Proceeding	Conference Paper	
Miniaturised preparation of polymeric nanoparticles using droplet manipulation on open surfaces	Abualsayed, A.M.   Abouelmagd, S.A.   Abdelgawad, M.	Micro and Nano Letters	14	13	1312-1316	Journal	Article	
Effect of Joule heating and temperature-dependent zeta potential on electroosmotic flow measurements in calorimetric flow sensors	Altayyeb, A.   Sun, Y.   Abdelgawad, M.	Micro and Nano Letters	14	9	1007-1012	Journal	Article	
Effect of waveform of the actuation signal on droplet speed on digital microfluidic devices	Abualsayed, A.   Abdelgawad, M.	Proceedings of the 14th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2019	-	-	205-208	Conference Proceeding	Conference Paper	
Numerical simulation of photothermally induced Marangoni flow around a microbubble	Darwish, A.   Abdelgawad, M.	Proceedings of the 14th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2019	-	-	524-528	Conference Proceeding	Conference Paper	
Performance of using deformability of endometrial cells as a diagnostic test for endometriosis	Altayyeb, A.   Othman, E.   Khashbah, M.   Esmael, A.   El-Mokhtar, M.   Lambalk, C.   Mijatovic, V.   Abdelgawad, M.	23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019	-	-	1586-1587	Conference Proceeding	Conference Paper	