

Experiment #	1			2			3			4			5			6			7			8			
Input parameters	Exp.	Mod.	Mod.	Exp.	Mod.	Mod.	Exp.	Mod.	Mod.	Exp.	Mod.	Mod.	Exp.	Mod.	Mod.	Exp.	Mod.	Mod.	Exp.	Mod.	Mod.	Exp.	Mod.	Mod.	
Clamping angle [°]	12	13	14	14	14	14	0.8	0.8	0.8	0.8	0.71	1	0.79	1	0.79	10	10	10	0.5	0.5	0.5	0.8	0.8	0.8	
Liquid volume [μL]	1	0.99	0.9	0.8	0.7	0.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	
Capillary bending length [mm]	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	
Contact distribution pattern	0.92	0.92	0.87	0.87	0.72	0.72	0.67	0.67	0.67	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	
Contact angle beam & substr. [°]	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
Output variables	z_c [μm]	L_w [mm]	N_c [mm]	z_c [μm]	L_w [mm]	N_c [mm]	z_c [μm]	L_w [mm]	N_c [mm]	z_c [μm]	L_w [mm]	N_c [mm]	z_c [μm]	L_w [mm]	N_c [mm]	z_c [μm]	L_w [mm]	N_c [mm]	z_c [μm]	L_w [mm]	N_c [mm]	z_c [μm]	L_w [mm]	N_c [mm]	
Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	Detached	
Region 1	3.776	0.4024	0.4915	0.0222	2.4078	0.013	4.5988	0.0128	4.4112	0.0316	1.0206	0.0149	1.7823	0.0078	2.1182	0.0089									
Region 2	3.7336	0.7933	0.4044	4.0472	0.8631	0.0429	2.6811	0.2558	0.0242	2.4158	0.9682	-0.0558	3.3669	0.3184	-0.0335	3.0575	0.6997	-0.0409	3.7347	0.7305	-0.019	2.2726	0.669	-0.0405	
Region 3	3.6342	1.0049	0.516	3.9486	0.9111	-0.0587	2.2641	1.0231	-0.0583	2.338	1.0066	-0.0828	3.0828	0.3672	0.4245	-0.027	2.9628	0.6997	-0.1014	3.6333	0.4649	-0.032	2.1737	1.1215	-0.0537
Region 4	3.5836	1.0024	0.0448	3.8981	0.9399	-0.0534	2.2137	1.0625	-0.0541	2.2847	1.0449	-0.2714	3.2165	0.4727	-0.0296	2.9126	0.7188	-0.0992	3.5805	0.4649	0.0278	2.1339	1.151	-0.0559	
Region 5	3.5328	1.0525	0.0553	3.8479	0.9399	-0.0507	2.1634	1.0193	-0.0499	2.2257	1.0545	-0.0499	3.1657	0.5017	-0.0204	2.862	0.738	-0.092	3.5237	0.4867	0.0301	2.0743	1.2002	-0.0597	
Region 6	3.4812	1.0525	0.0275	3.7969	0.9495	-0.0395	2.1122	1.1412	-0.0432	2.179	1.112	-0.2063	3.115	0.5209	-0.0012	2.8114	0.7572	-0.0854	3.4819	0.5013	0.126	2.0228	1.2199	-0.0437	
Region 7	3.4312	1.0682	0.0175	3.7464	0.9782	-0.0335	2.0631	1.1806	-0.0473	2.1283	1.16	-0.1862	3.0643	0.5402	-0.0037	2.7611	0.7859	-0.0815	3.4327	0.4795	0.0031	1.9741	1.2297	-0.0575	
Region 8	3.3802	1.0882	0.0106	3.6948	0.9782	-0.0195	2.0136	1.2004	-0.0228	2.0781	1.1655	-0.1664	3.014	0.5602	-0.0022	2.7105	0.7859	-0.075	3.3835	0.4904	-0.0508	1.9209	0.9756	-0.1123	
Region 9	3.3295	1.1153	0.0019	3.6444	0.9974	-0.0116	1.967	0.7556	-0.0917	2.0294	1.2175	-0.2116	2.9635	0.5885	0.0047	2.6595	0.8444	-0.0634	3.3323	0.5231	0.0079	1.8908	0.9444	-0.1382	
Region 10	3.2783	1.1515	0.0158	3.5941	0.9974	-0.0076	1.9285	0.9936	-0.2222	1.9806	1.2258	-0.245	2.913	0.6029	0.0011	2.6099	0.8339	-0.0687	3.2826	0.5303	0.0038	1.847	1.0231	-0.1382	
Region 11	3.2272	1.2132	0.0879	3.5431	1.0166	0.011	1.8872	1.033	-0.3209	1.9355	1.2329	-0.3909	2.8622	0.6174	0.0037	2.5589	0.8363	-0.0665	3.2325	0.5303	0.005	1.7977	1.0625	-0.1362	
Region 12	3.1773	1.1746	0.0271	3.4924	1.0166	0.0112	1.8398	1.0273	-0.3508	1.895	1.39	-0.3885	2.8122	0.6271	0.02	2.5089	0.8722	-0.0721	3.1817	0.5376	0.0142	1.7483	1.0139	-0.1337	
Region 13	3.1274	1.1703	0.0256	3.4421	1.0504	0.0148	1.7888	1.1314	-0.4532	1.8537	1.4955	-0.4875	2.7633	0.656	0.0025	2.4586	0.8818	-0.0636	3.1309	0.5884	0.0235	1.7011	1.151	-0.1652	
Region 14	3.0776	1.1782	0.0338	3.3917	1.055	0.0398	1.7354	1.3008	-0.529	1.8133	1.6489	-0.7378	2.7107	0.6753	0.0368	2.4077	0.9101	-0.043	3.0802	0.5759	0.032	1.6597	1.1919	-0.4634	
Region 15	3.0275	1.2017	0.0589	3.3405	1.0741	0.0381	1.6829	1.5993	-0.5907	1.7695	2.0131	-0.6681	2.6614	0.6946	0.0283	2.3589	0.9105	-0.0567	3.0295	0.5759	0.04	1.6164	1.4855	-0.5393	
Region 16	2.9774	1.2096	0.0577	3.2906	1.0741	0.0381	1.6309	1.702	-0.6822	1.7228	2.4337	-0.7651	2.6232	0.7525	0.0207	2.3097	0.9489	-0.0606	2.9789	0.5884	0.0465	1.5726	1.6331	-0.6107	
Region 17	2.9274	1.2253	0.0629	3.2399	1.1029	0.0395	1.5792	1.828	-0.7651	1.678	2.8137	-0.861	2.5649	0.7621	0.0023	2.26	0.9776	-0.0608	2.9274	0.5884	0.0564	1.5314	1.9076	-0.711	
Region 18	2.8773	1.2332	0.05	3.1895	1.1029	0.0445	1.5285	4.4763	-0.985	1.6827	4.3043	-0.8252	2.5158	0.7911	-0.0096	2.2092	1.016	-0.0599	2.8766	0.6031	0.0724	1.4931	2.1657	-0.8086	
Region 19	2.8278	1.2567	0.044	3.1392	1.1221	0.0536	1.4783	4.9977	-1.0765	1.6435	4.6944	-0.9433	2.465	0.8297	-0.0235	2.1503	1.0351	-0.0774	2.8264	0.6031	0.0749	1.4507	2.4547	-0.9075	
Region 20	2.7775	1.296	0.0479	3.0888	1.137	0.0615	1.4283	5.5185	-1.156	1.6023	5.2725	-1.041	2.4187	0.8391	-0.039	2.0917	1.0831	-0.1003	2.7765	0.6173	0.0743	1.4083	2.7674	-1.0066	
Region 21	2.7274	1.2881	0.0569	3.0383	1.1509	0.0681	1.3782	5.9915	-1.1632	1.563	5.9915	-1.1632	2.3674	0.8779	-0.0394	2.0631	1.1493	-0.1044	2.7263	0.6248	0.0761	1.4197	3.0814	-1.1471	
Region 22	2.6773	1.3285	0.0696	2.9878	1.1656	0.0765	1.3283	6.5025	-1.2054	1.5235	6.5025	-1.2054	2.3167	0.9277	-0.0569	2.0138	1.2138	-0.1286	2.6768	0.6389	0.0889	1.4163	3.5125	-1.2417	
Region 23	2.6273	1.3588	0.0539	2.9373	1.1988	0.0676	1.2785	6.9745	-1.2377	1.4845	6.9745	-1.2377	2.2673	0.9551	-0.0712	1.9672	1.2268	-0.1507	2.6251	0.6593	0.0903	1.334	4.0045	-1.3098	
Region 24	2.5779	1.4174	0.0654	2.8876	1.1988	0.0608	1.2285	6.9738	-1.4524	1.4228	6.9654	-1.389	2.2246	1.0322	-0.1218	1.9185	1.2843	-0.1661	2.5747	0.632	0.0943	1.2922	4.434	-1.4036	
Region 25	2.5274	1.4888	0.0586	2.8373	1.2433	0.0723	1.1783	7.1295	-1.5295	1.3888	6.9745	-1.4571	2.1846	1.0998	-0.1535	1.8728	1.3323	-0.215	2.5241	0.642	0.1008	1.2482	4.8162	-1.4716	
Region 26	2.4779	1.4924	0.054	2.7873	1.2564	0.07	1.1285	7.2871	-1.6119	1.3449	6.9654	-1.5264	2.1427	1.1927	-0.2238	1.8252	1.4185	-0.2543	2.4738	0.6402	0.1043	1.2038	5.7935	-1.5356	
Region 27	2.4279	1.5395	0.0544	2.7375	1.3139	0.0679	1.0785	7.5556	-1.6803	1.3003	7.0268	-1.588	2.0973	1.3699	-0.2801	1.7792	1.5719	-0.2874	2.4232	0.6756	0.1117	1.1592	7.0793	-1.5967	
Region 28	2.3776	1.5986	0.0664	2.6873	1.3433	0.0723	1.0283	7.9117	-1.7487	1.2508	7.2624	-1.6599	2.0473	1.5126	-0.3181	1.7302	1.6613	-0.3181	2.3722	0.6756	0.1176	1.1135	7.5359	-1.6452	
Region 29	2.3274	1.6149	0.0208	2.6289	1.3714	0.0744	0.9789	8.136	-1.7924	1.2134	7.4704	-1.7374	2.0574	1.4101	-0.4951	1.7363	1.8818	-0.3886	2.3218	0.6902	0.1269	1.0673	7.9236	-1.6886	
Region 30	2.2773	1.673	0.0162	2.5685	1.4194	0.0792	0.9285	8.7951	-1.897	1.2591	7.6404	-1.888	2.0373	1.5052	-0.608	1.6957	2.1119	-0.4763	2.2719	0.712	0.1265	1.0251	8.3555	-1.7383	
Region 31	2.2273	1.7133	0.0169	2.5081	1.4879	0.0811	0.8786	9.2811	-2.0244	1.3042	7.8484	-1.949	1.9777	1.6244	-0.729	1.6507	2.2878	-0.5186	2.2218	0.712	0.1265	0.9827	8.7438	-1.7878	
Region 32	2.1773	1.811	0.0234	2.4477	1.5931	0.0428	0.8287	9.7343	-2.0428	1.3533	8.046	-1.9533	1.9373	1.6841	-0.858	1.6133	2.4916	-0.6763	2.1708	0.712	0.1265	0.9438	9.1375	-1.8382	
Region 33	2.1273	1.838	0.0663	2.4122	1.6537	0.0248	0.7783	10.2394	-2.1886	1.3905	8.2599	-1.9759	1.8962	1.638	-0.9366	1.5725	2.5687	-0.781	2.1217	0.6939	0.1279	0.9056	9.5327	-1.7624	
Region 34	2.0773	1.9455	0.0207	2.3918	1.7327	0.0389	0.7283	10.7648	-2.349	1.4316	8.479	-2.0076	1.849	1.6794	-1.0723	1.5309	2.6597	-0.8796	2.0723	0.6939	0.1279	0.8671	9		