

Understanding the Multiple Orientations of Isolated Superellipsoidal Hematite Particles at the Oil-Water Interface

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Skelhon, Stefan A.F. Bon*^a

Electronic Supporting Information SEM Images and Assignments

Please see the end of the document for the corresponding SEM images.

Particle Assignments:

<i>Particle Number</i>	<i>File Name</i>	<i>Orientation</i>	<i>Perceived Height (nm)</i>	<i>Corrected Height (nm)</i>
1	Hematite 001	Tilted	837	863
2	Hematite 002	Tilted	756	780
3	Hematite 003	Tilted	867	894
4	Hematite 004	Tilted	811	836
5	Hematite 005	Flat	1000	1031
6	Hematite 006	Flat	1061	1094
7	Hematite 007	Tilted	914	942

8	<i>Hematite</i> 008	<i>Tilted and</i> <i>Sunk</i>	514	530
9	<i>Hematite</i> 009	<i>Flat</i>	1062	1095
10	<i>Hematite</i> 010	<i>Flat</i>	1057	1090
11	<i>Hematite</i> 011	<i>Flat</i>	979	1009
12	<i>Hematite</i> 012	<i>Flat</i>	952	982
13	<i>Hematite</i> 013	<i>Tilted</i>	865	892
14	<i>Hematite</i> 014	<i>Flat</i>	1033	1065
15	<i>Hematite</i> 015	<i>Tilted</i>	850	876
16	<i>Hematite</i> 016	<i>Flat</i>	1035	1067
17	<i>Hematite</i> 017	<i>Flat</i>	726	749
18	<i>Hematite</i> 018	<i>Tilted and</i> <i>Sunk</i>	495	510
19	<i>Hematite</i> 019	<i>Flat</i>	1079	1113
20	<i>Hematite</i>	<i>Tilted</i>	759	783

	020			
21	Hematite 021	Flat	1049	1082
22	Hematite 022	Flat	1082	1116
23	Hematite 023	Flat	1068	1101
24	Hematite 024	Flat	1032	1064
25	Hematite 025	Tilted	932	961
26	Hematite 026	Tilted	900	928
27	Hematite 027	Tilted	838	864
28	Hematite 028	Flat	1022	1054
29	Hematite 029	Flat	995	1026
30	Hematite 030	Flat	1023	1055
31	Hematite 031	Flat	1042	1074
32	Hematite 032	Flat	952	982

33	<i>Hematite</i> <i>033</i>	<i>Flat</i>	<i>851</i>	<i>878</i>
34	<i>Hematite</i> <i>034</i>	<i>Flat</i>	<i>1002</i>	<i>1033</i>
35	<i>Hematite</i> <i>035</i>	<i>Tilted</i>	<i>917</i>	<i>946</i>
36	<i>Hematite</i> <i>036</i>	<i>Flat</i>	<i>1103</i>	<i>1137</i>
37	<i>Hematite</i> <i>037</i>	<i>Flat</i>	<i>1044</i>	<i>1077</i>
38	<i>Hematite</i> <i>038</i>	<i>Tilted</i>	<i>910</i>	<i>938</i>
39	<i>Hematite</i> <i>039</i>	<i>Tilted</i>	<i>778</i>	<i>802</i>
40	<i>Hematite</i> <i>040</i>	<i>Tilted</i>	<i>710</i>	<i>732</i>
41	<i>Hematite</i> <i>041</i>	<i>Flat</i>	<i>1064</i>	<i>1097</i>
42	<i>Hematite</i> <i>042</i>	<i>Tilted</i>	<i>785</i>	<i>809</i>
43	<i>Hematite</i> <i>043</i>	<i>Flat</i>	<i>1082</i>	<i>1116</i>
44	<i>Hematite</i> <i>044</i>	<i>Tilted</i>	<i>902</i>	<i>930</i>
45	<i>Hematite</i>	<i>Flat</i>	<i>1013</i>	<i>1045</i>

	045			
46	Hematite 046	Flat	1001	1032
47	Hematite 047	Flat	1006	1037
48	Hematite 048	Tilted	896	924
49	Hematite 049	Tilted	881	908
50	Hematite 050	Tilted	847	873
51	Hematite 051	Tilted	939	968
52	Hematite 052	Flat	1010	1041
53	Hematite 053	Flat	1080	1114
54	Hematite 054	Tilted	972	1002
55	Hematite 055	Flat	1032	1064
56	Hematite 056	Tilted and Sunk	639	659
57	Hematite 057	Flat	1044	1077

58	<i>Hematite</i> 058	<i>Flat</i>	1110	1145
59	<i>Hematite</i> 059	<i>Tilted</i>	872	899
60	<i>Hematite</i> 060	<i>Flat</i>	1052	1085
61	<i>Hematite</i> 061	<i>Flat</i>	1089	1123
62	<i>Hematite</i> 062	<i>Flat</i>	1055	1088
63	<i>Hematite</i> 063	<i>Flat</i>	881	908
64	<i>Hematite</i> 064	<i>Flat</i>	1010	1041
65	<i>Hematite</i> 065	<i>Tilted</i>	895	923
66	<i>Hematite</i> 066	<i>Flat</i>	1060	1093
67	<i>Hematite</i> 066	<i>Tilted</i>	804	829
68	<i>Hematite</i> 066	<i>Tilted and</i> <i>Sunk</i>	523	539
69	<i>Hematite</i> 067	<i>Flat</i>	1080	1114
70	<i>Hematite</i>	<i>Flat</i>	900	928

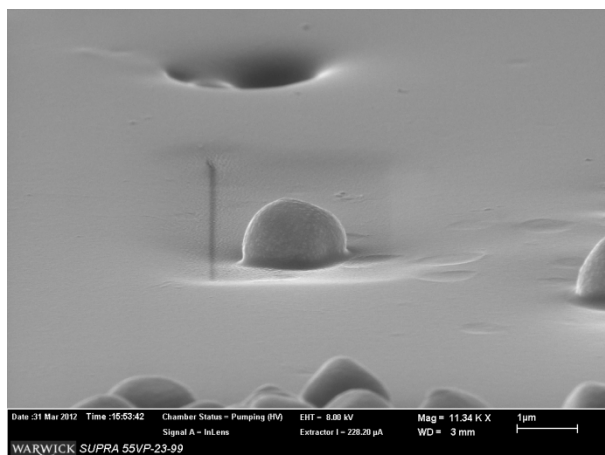
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71	Hematite	Tilted and	578	596
	069	Sunk		
72	Hematite	Tilted	782	806
	070			
73	Hematite	Flat	948	978
	071			
74	Hematite	Flat	1003	1034
	072			
75	Hematite	Flat	1084	1118
	073			
76	Hematite	Flat	1100	1134
	073			
77	Hematite	Flat	1066	1099
	073			
78	Hematite	Tilted	792	817
	074			
79	Hematite	Tilted	877	904
	075			
80	Hematite	Flat	1035	1067
	076			
81	Hematite	Flat	1027	1059
	076			
82	Hematite	Flat	1055	1088
	076			

83	<i>Hematite</i> 077	<i>Flat</i>	1015	1047
84	<i>Hematite</i> 078	<i>Flat</i>	1023	1055
85	<i>Hematite</i> 079	<i>Flat</i>	1057	1090
86	<i>Hematite</i> 080	<i>Flat</i>	1044	1077
87	<i>Hematite</i> 081	<i>Flat</i>	1105	1139
88	<i>Hematite</i> 082	<i>Tilted</i>	867	894
89	<i>Hematite</i> 083	<i>Tilted</i>	710	732
90	<i>Hematite</i> 084	<i>Tilted</i>	832	858
91	<i>Hematite</i> 085	<i>Flat</i>	873	900
92	<i>Hematite</i> 086	<i>Tilted</i>	784	808
93	<i>Hematite</i> 087	<i>Tilted</i>	743	766
94	<i>Hematite</i> 088	<i>Flat</i>	793	818
95	<i>Hematite</i>	<i>Tilted and</i>	403	416

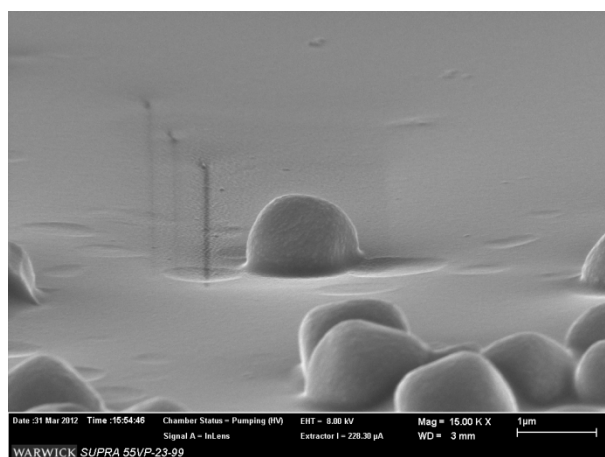
	089	Sunk		
96	Hematite 090	Tilted	615	634
97	Hematite 091	Flat	867	894
98	Hematite 092	Tilted	801	826
99	Hematite 093	Flat	1017	1049
100	Hematite 094	Flat	1081	1115

Corresponding SEM images:

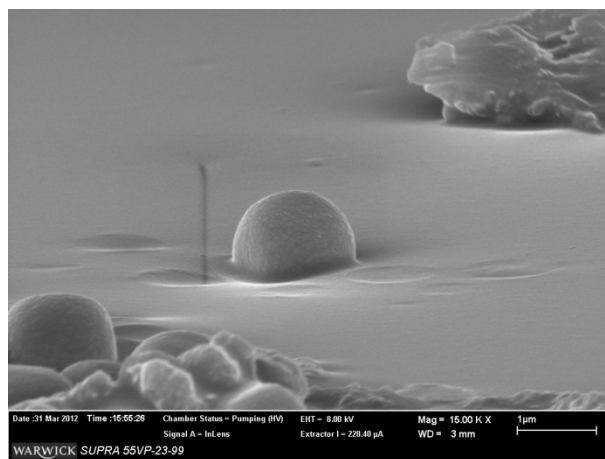
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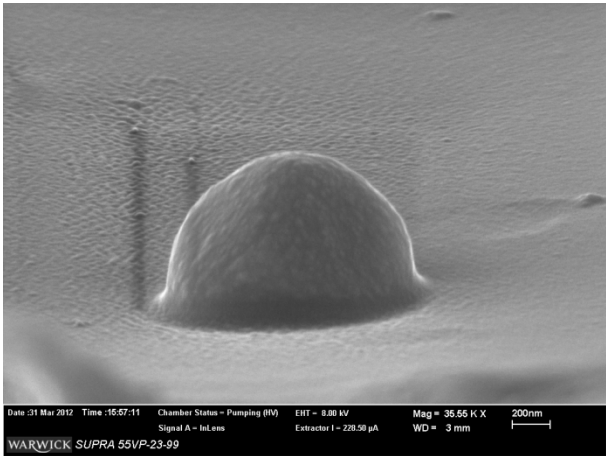
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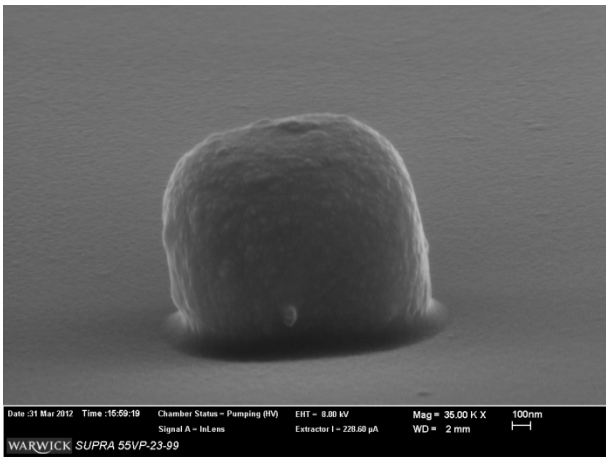
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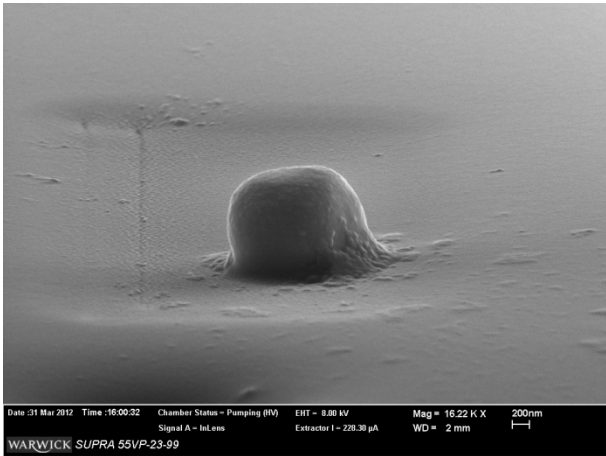
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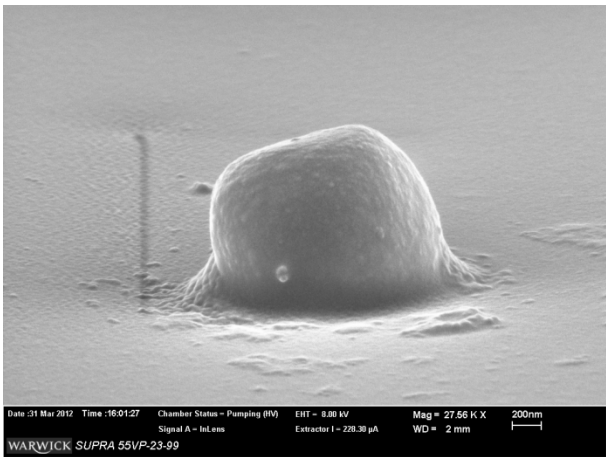
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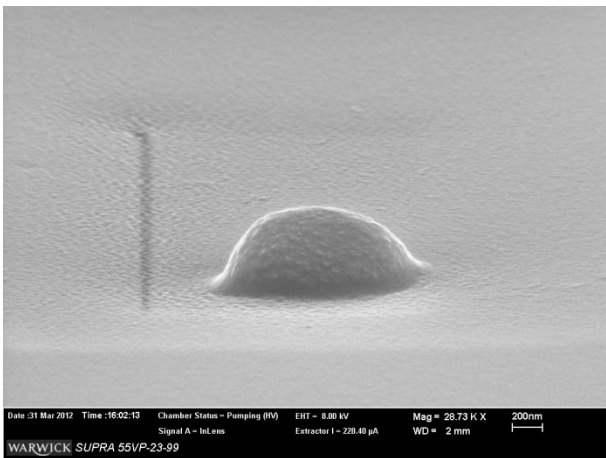
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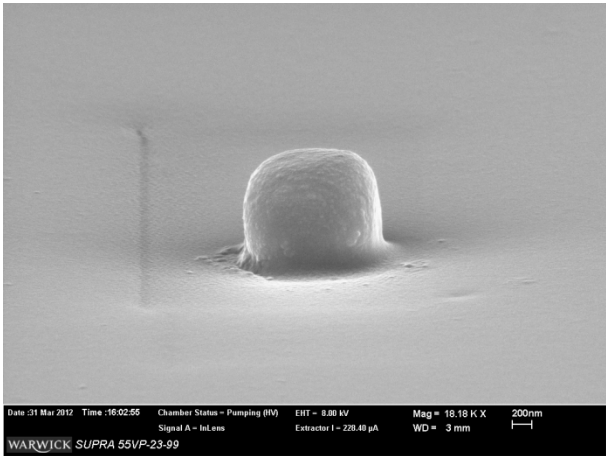
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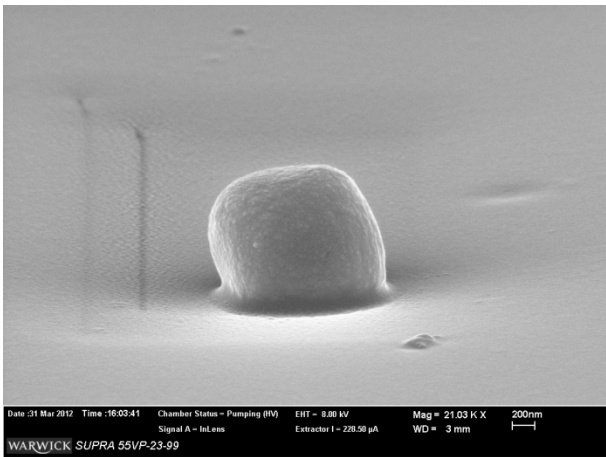
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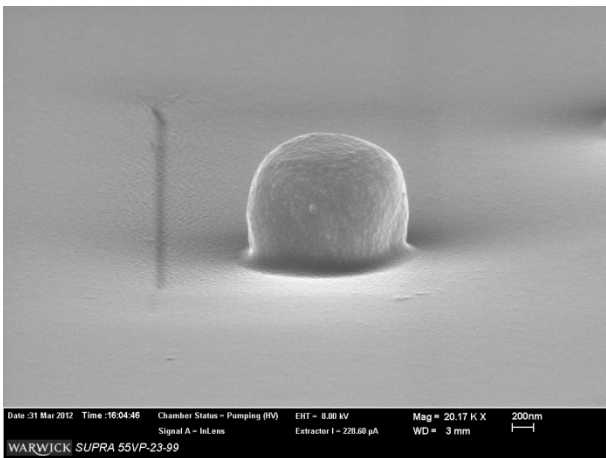
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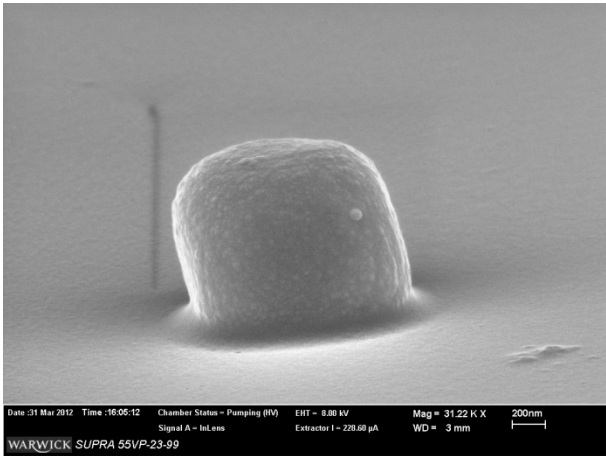
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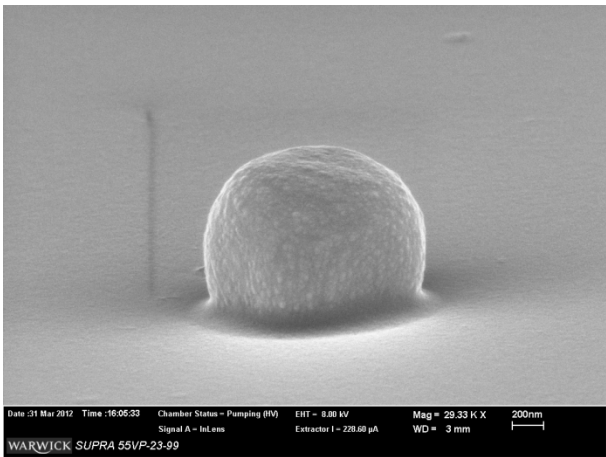
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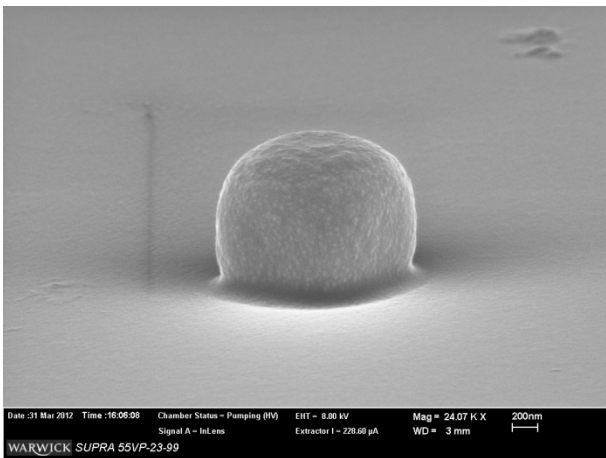
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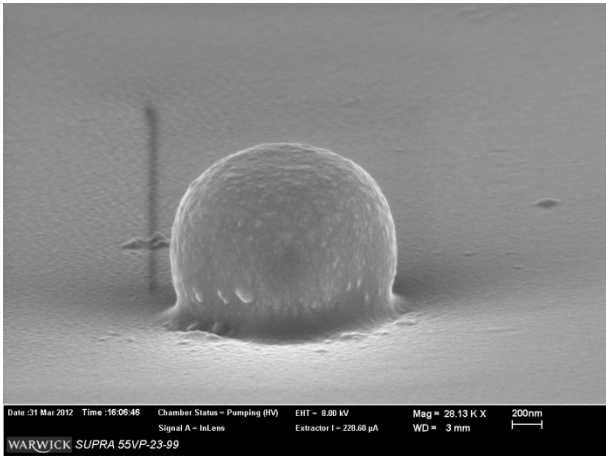
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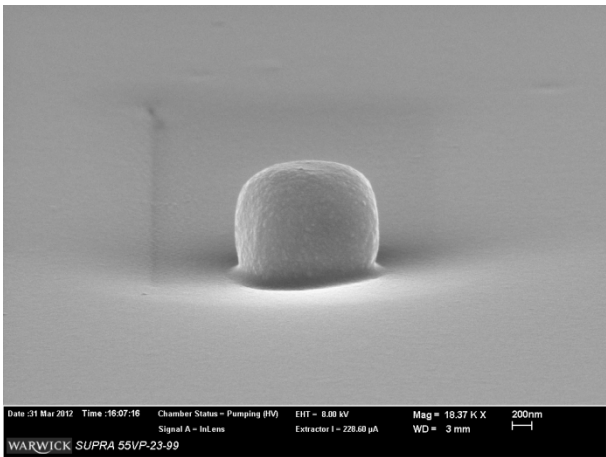
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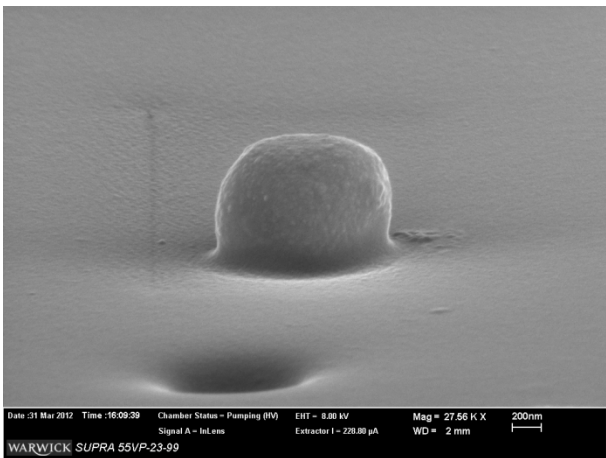
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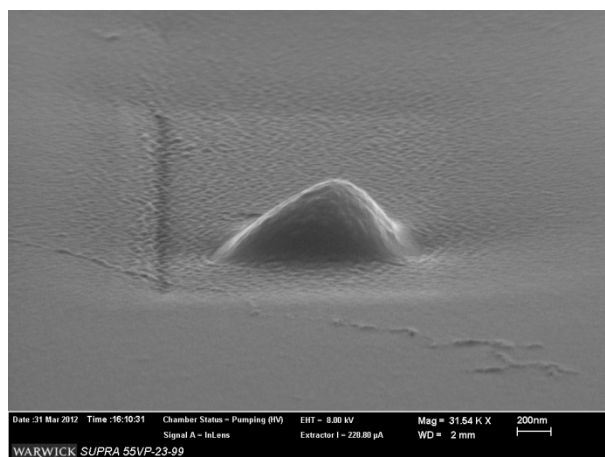
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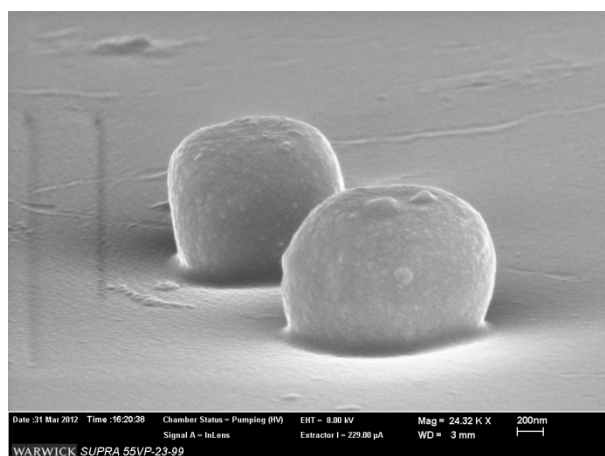
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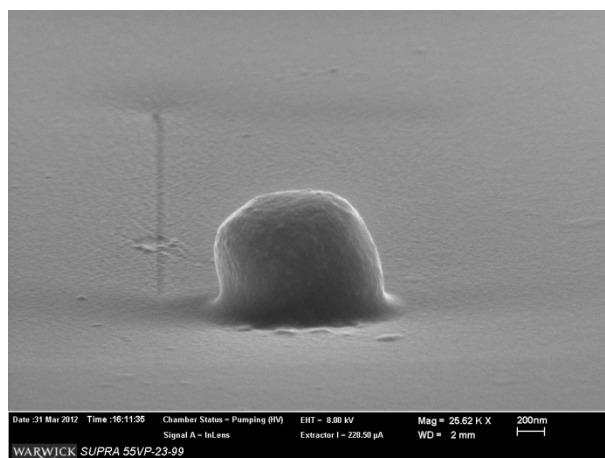
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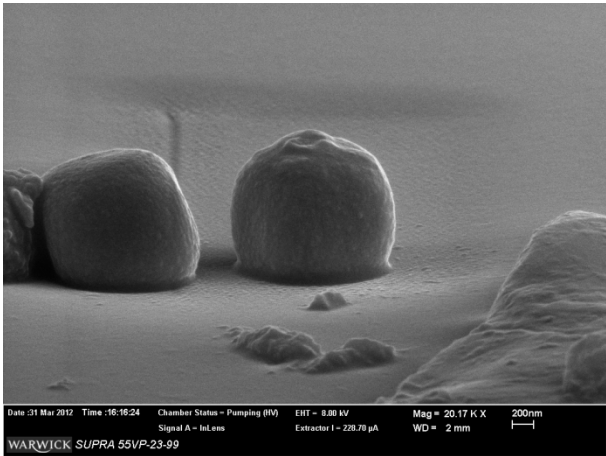
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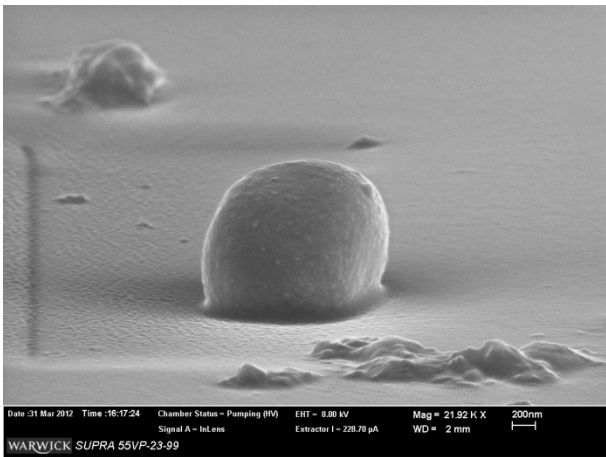
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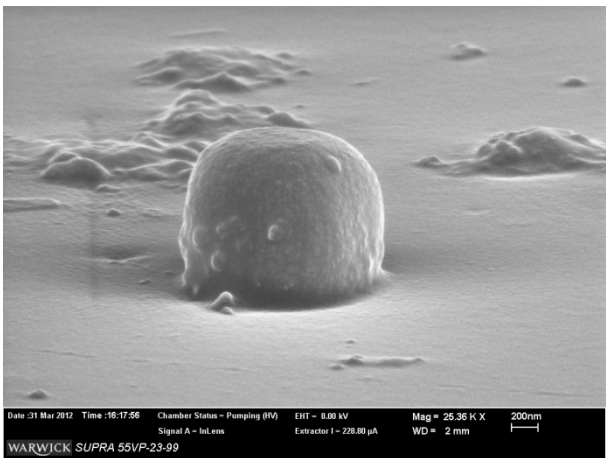
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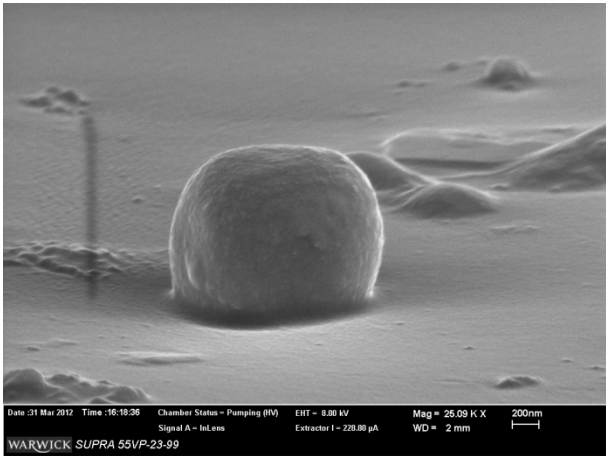
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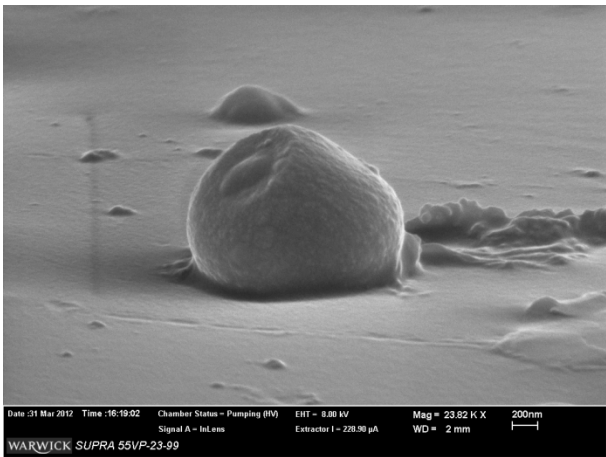
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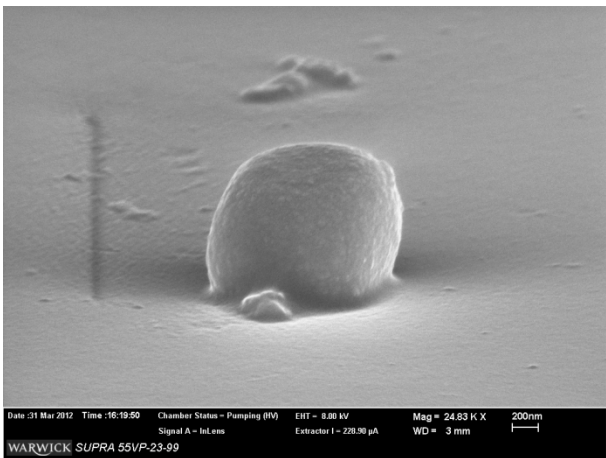
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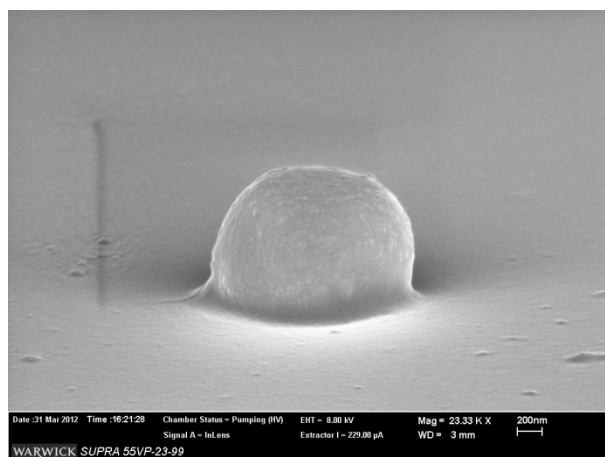
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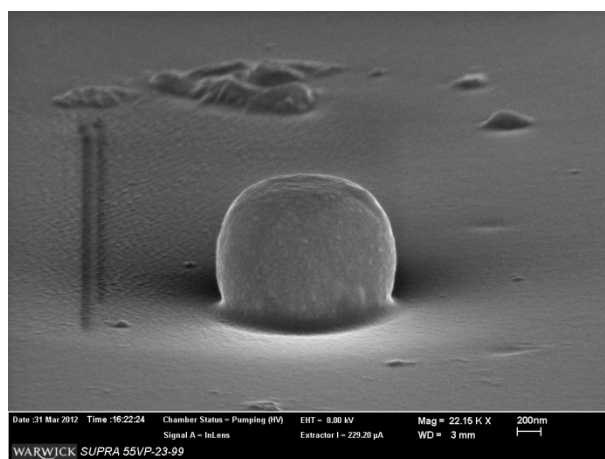
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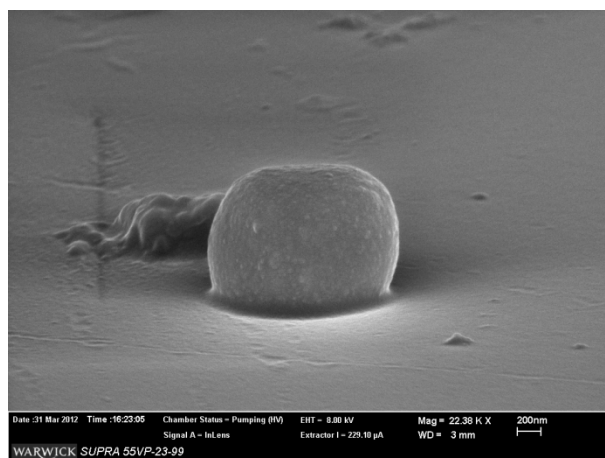
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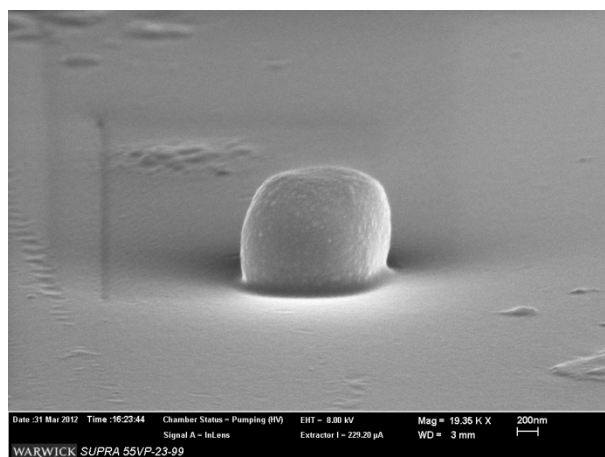
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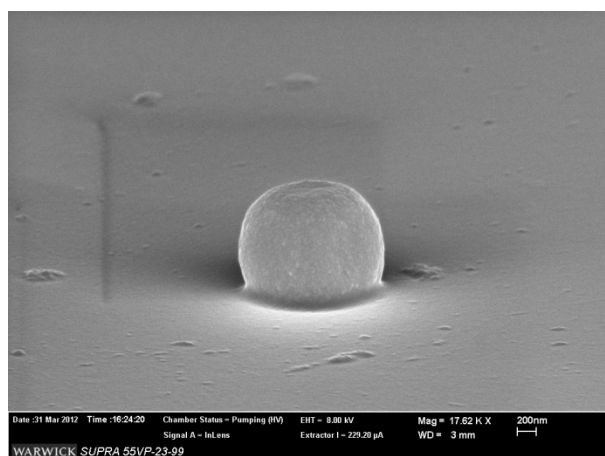
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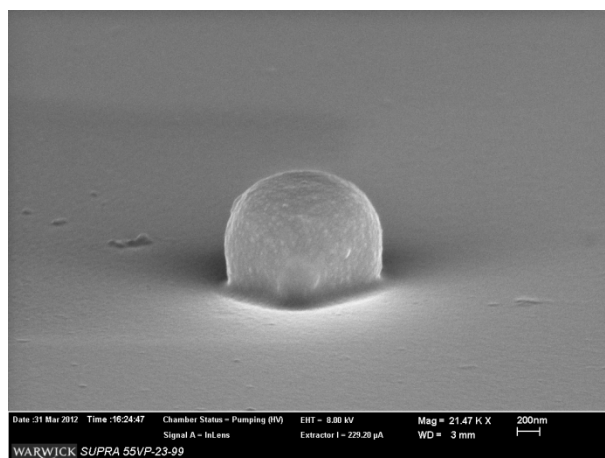
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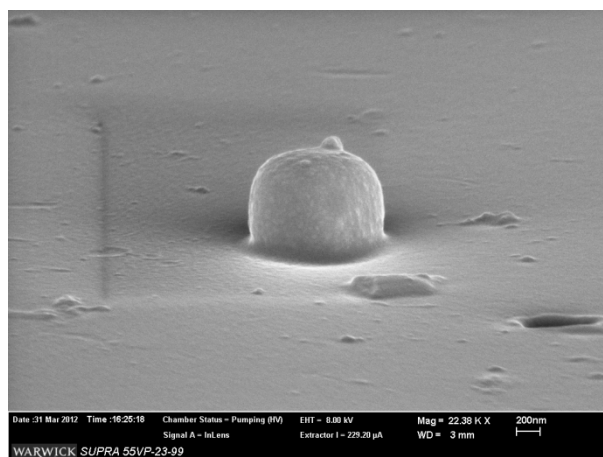
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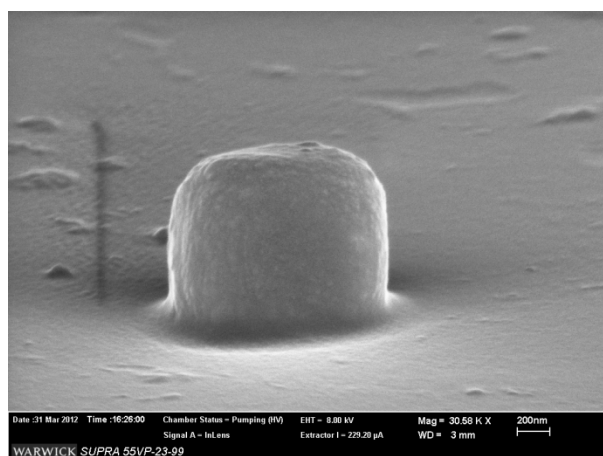
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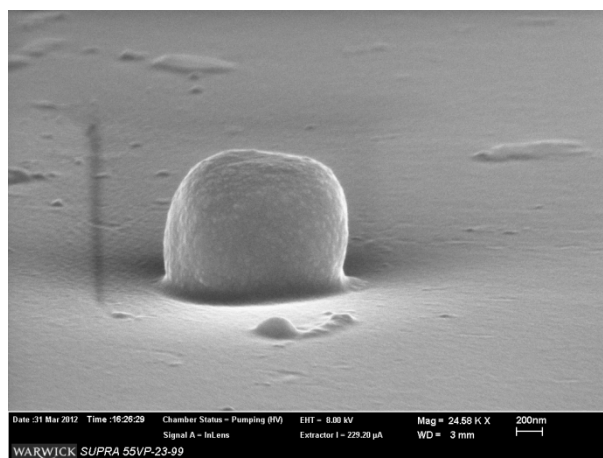
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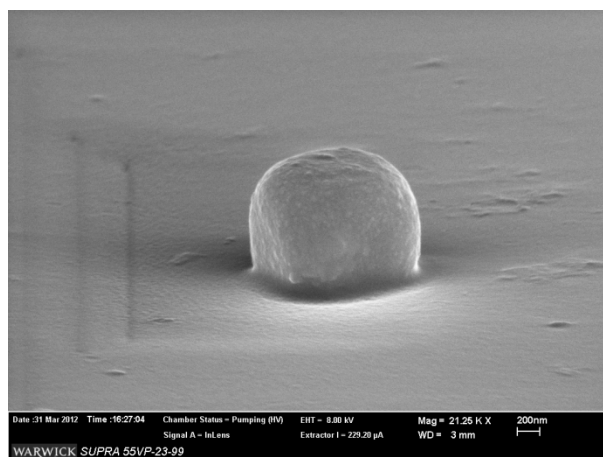
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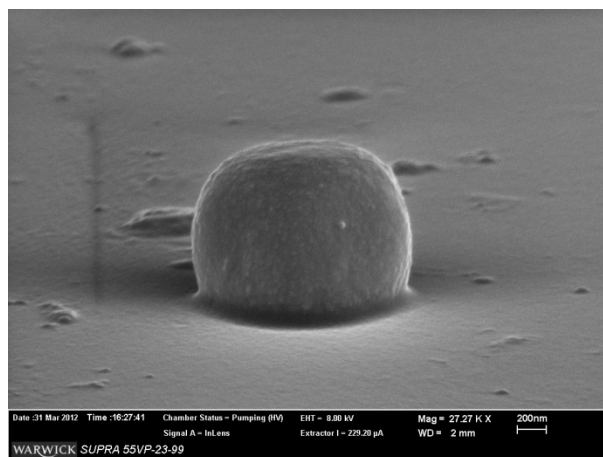
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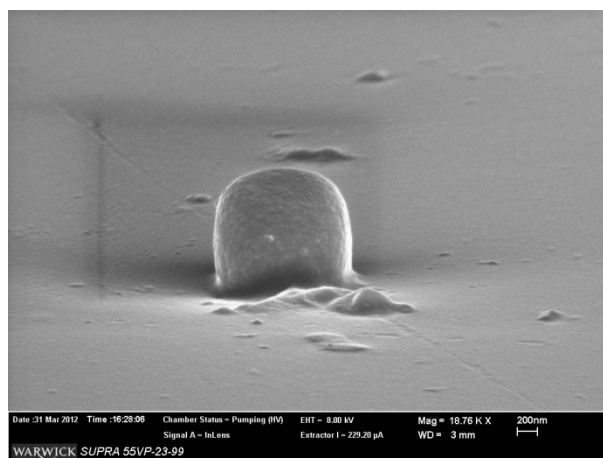
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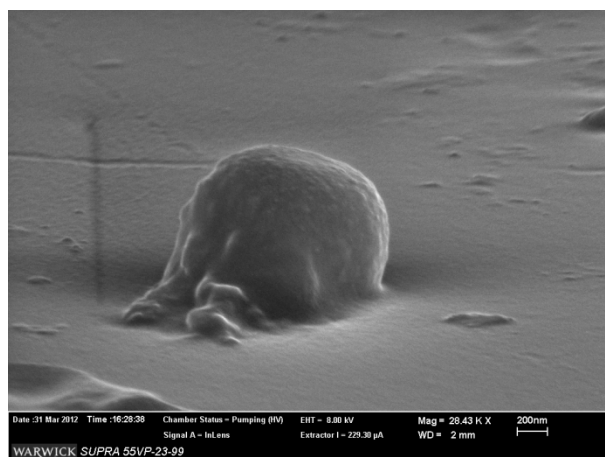
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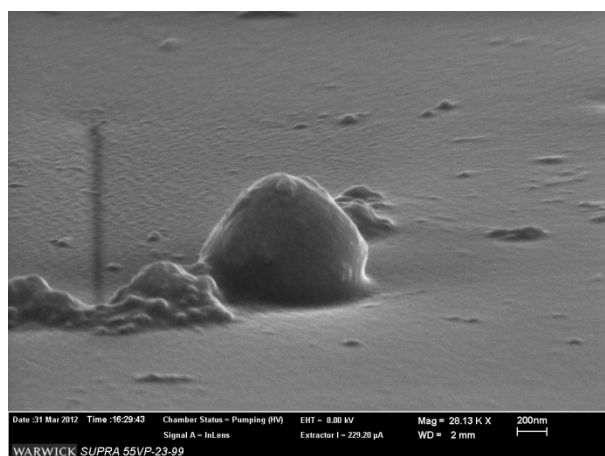
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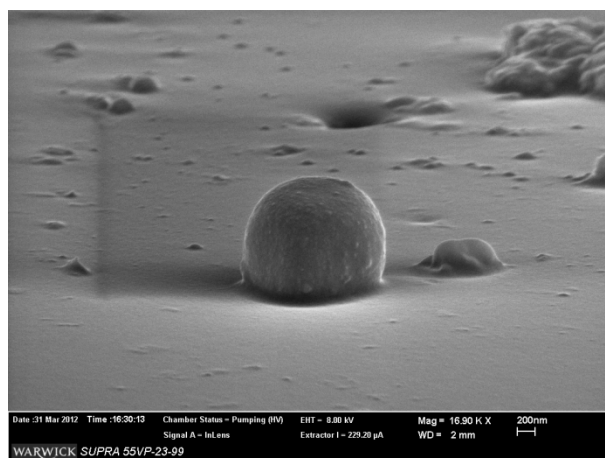
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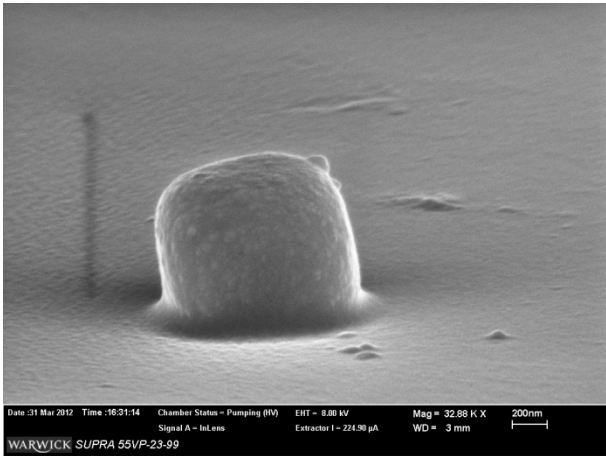
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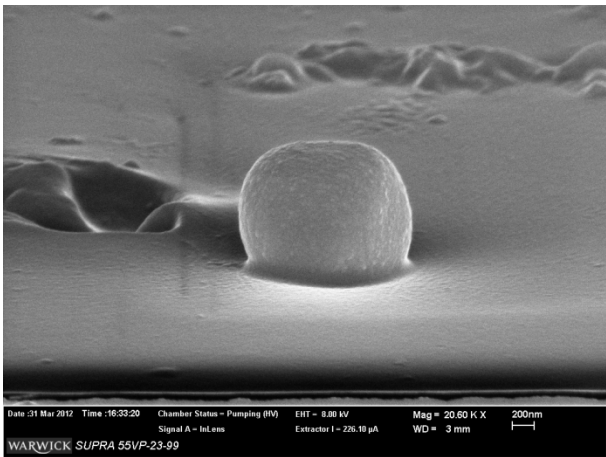
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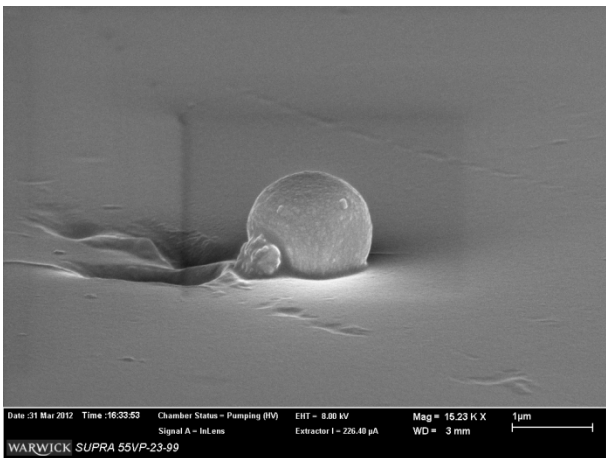
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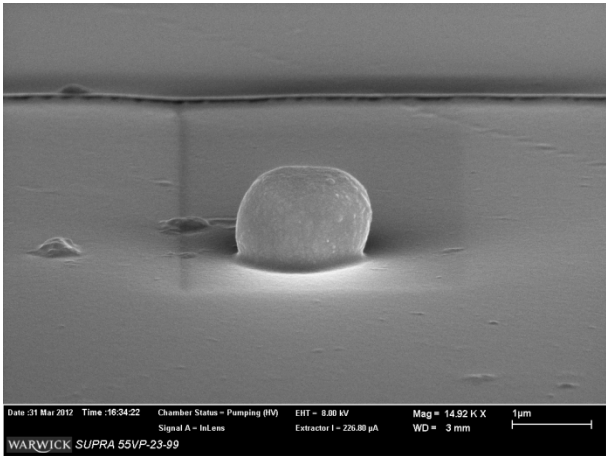
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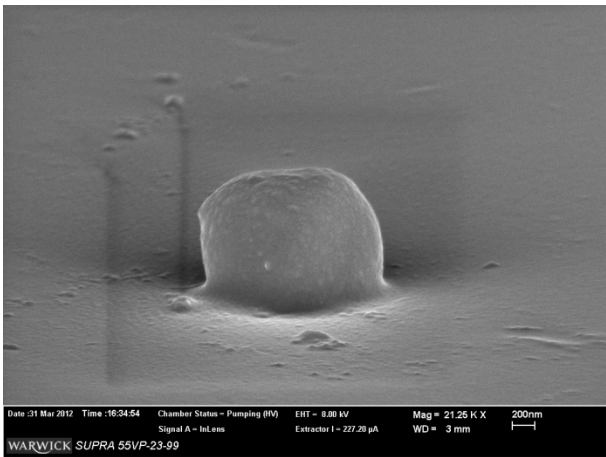
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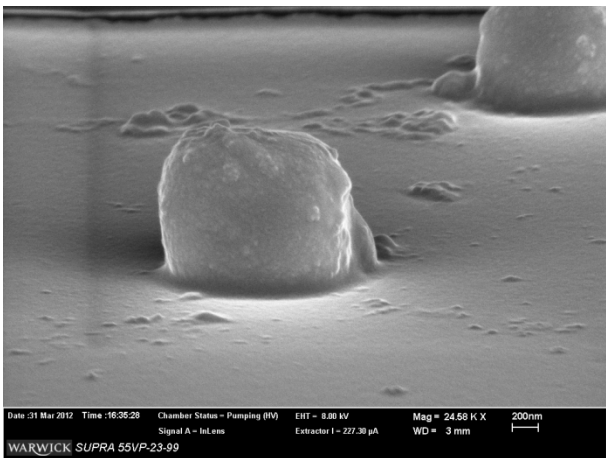
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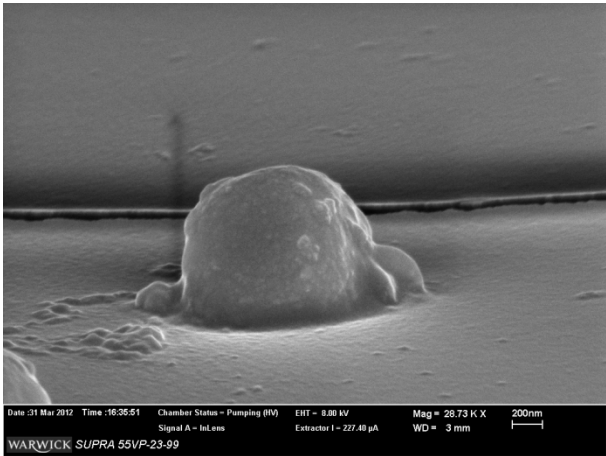
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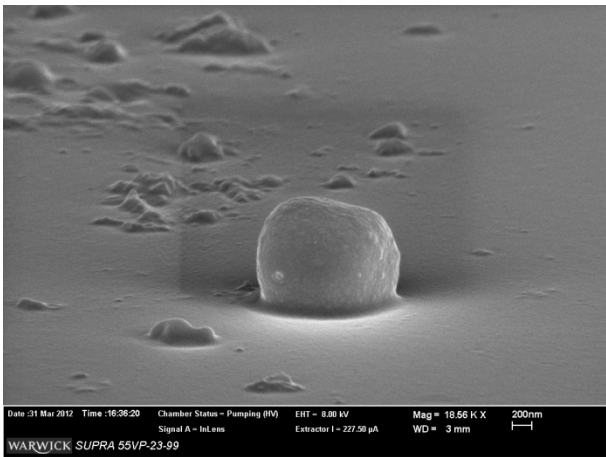
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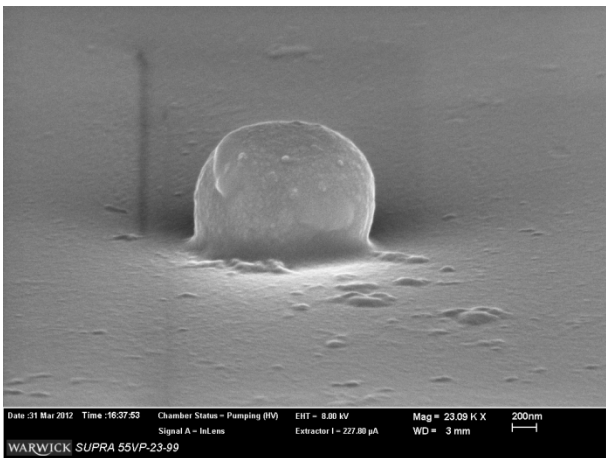
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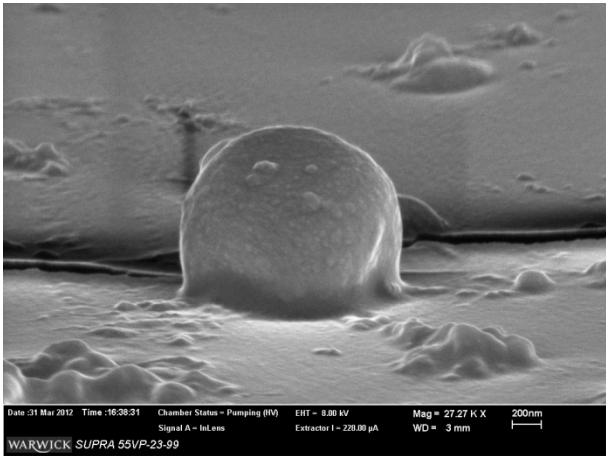
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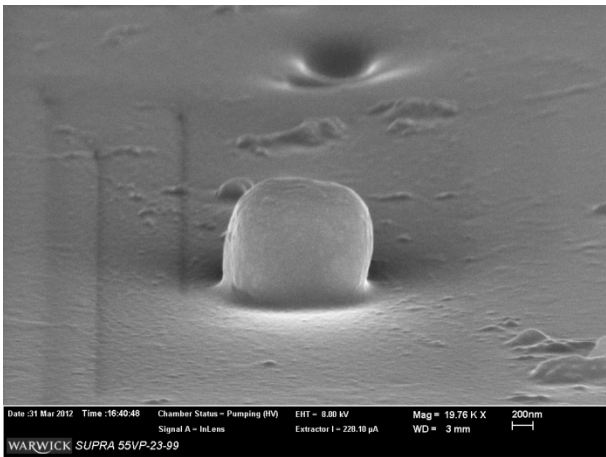
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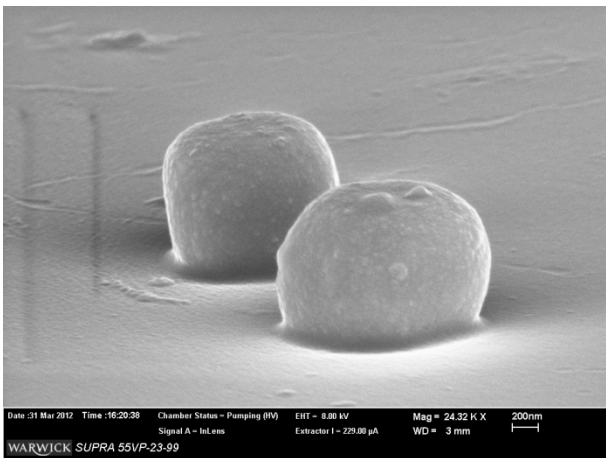
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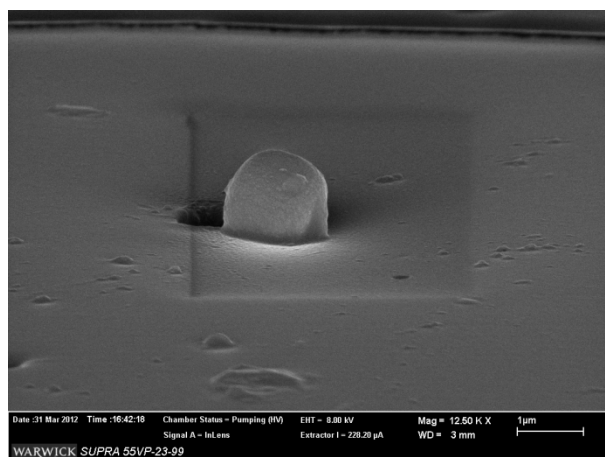
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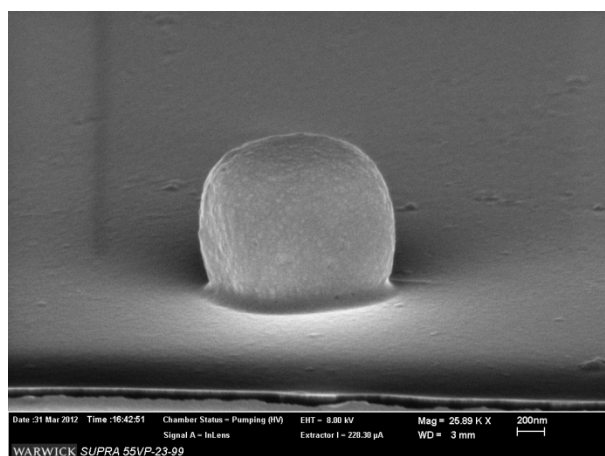
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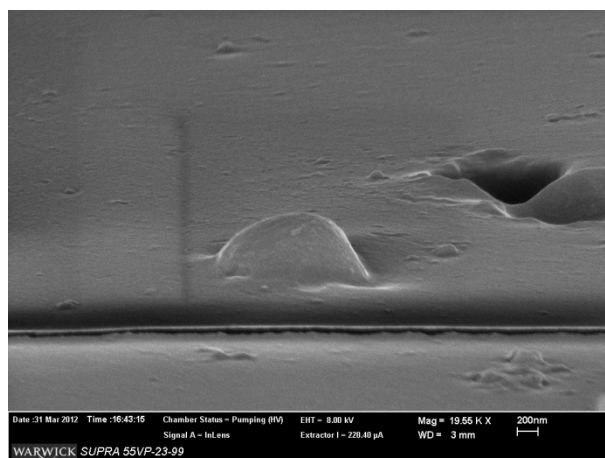
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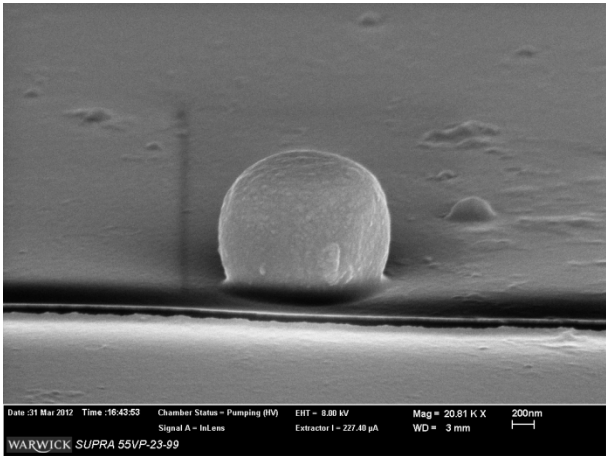
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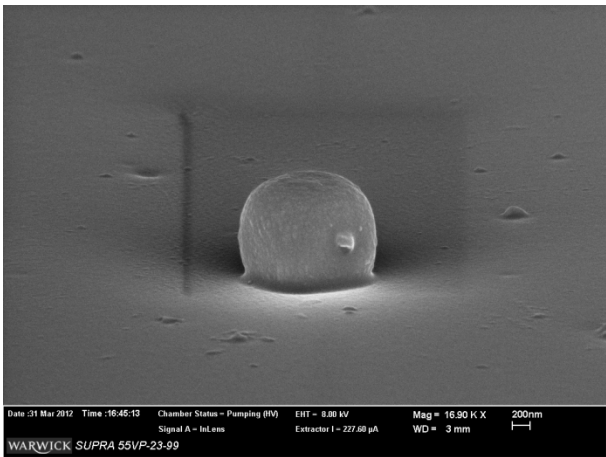
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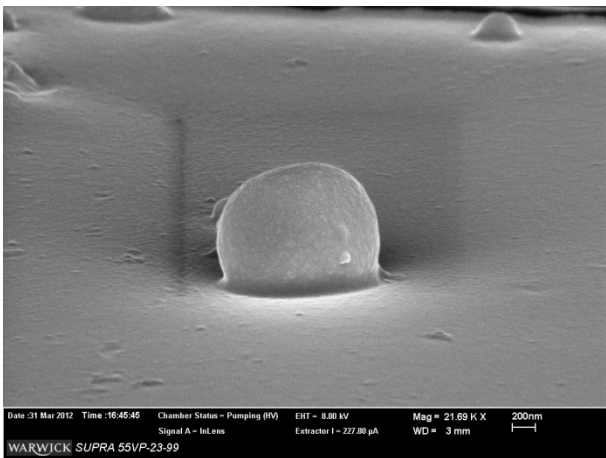
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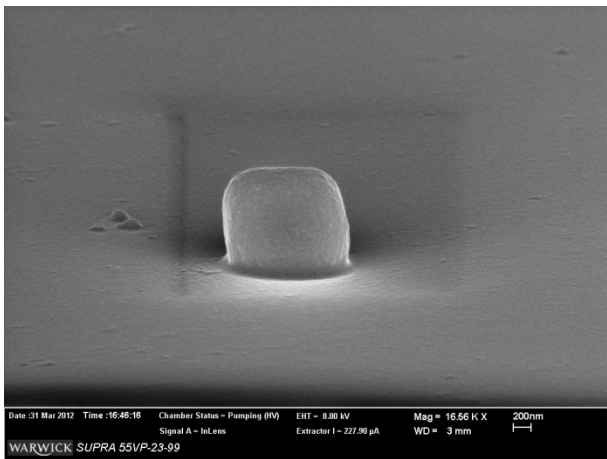
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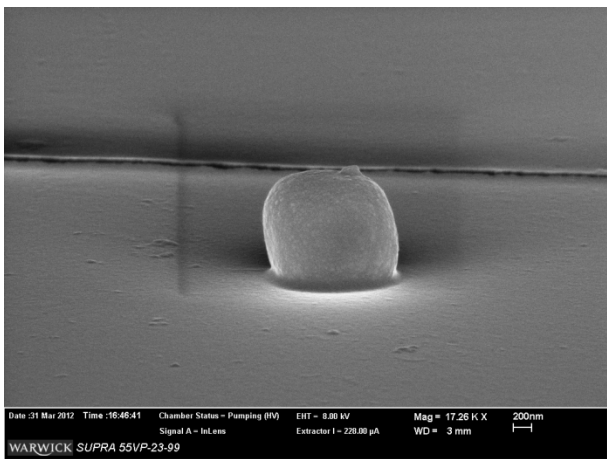
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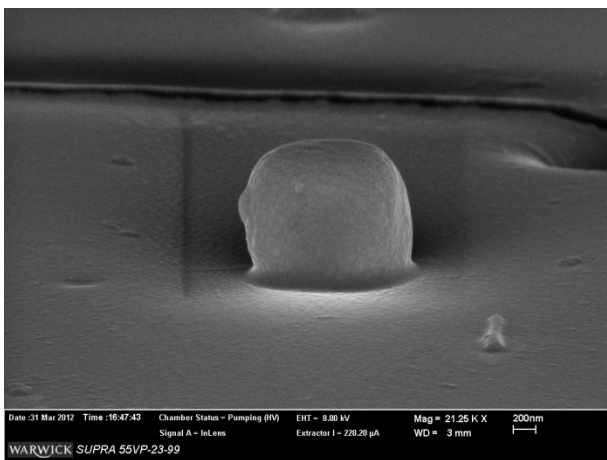
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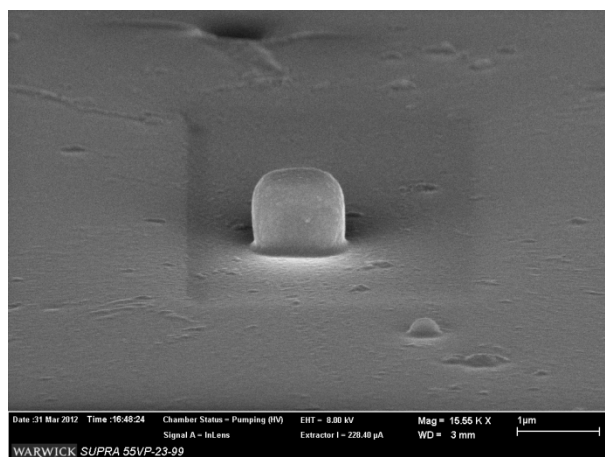
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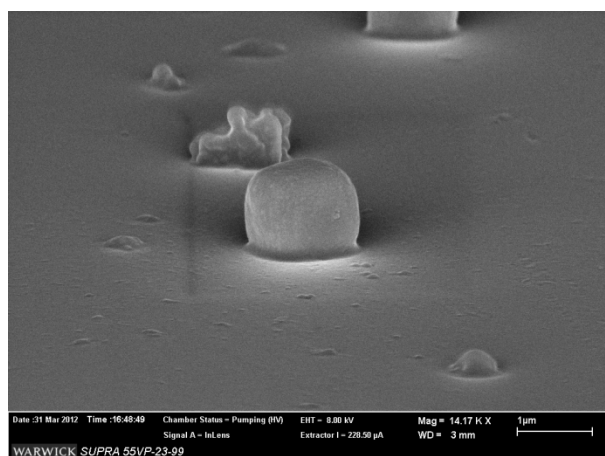
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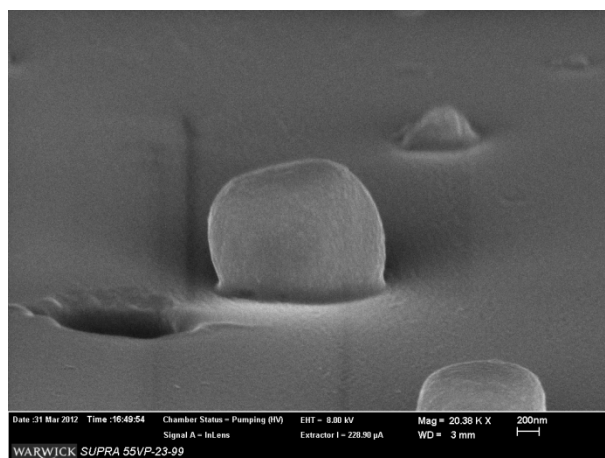
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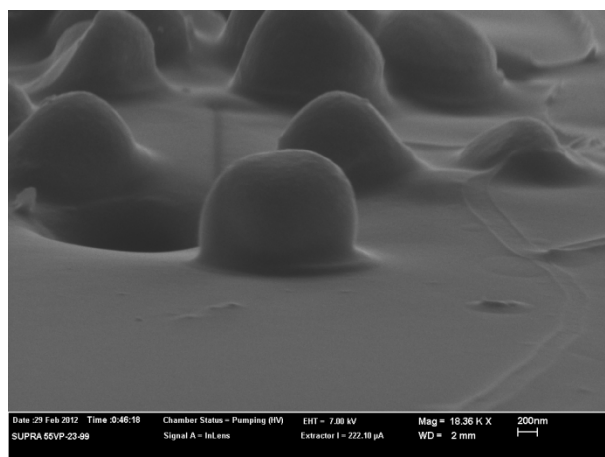
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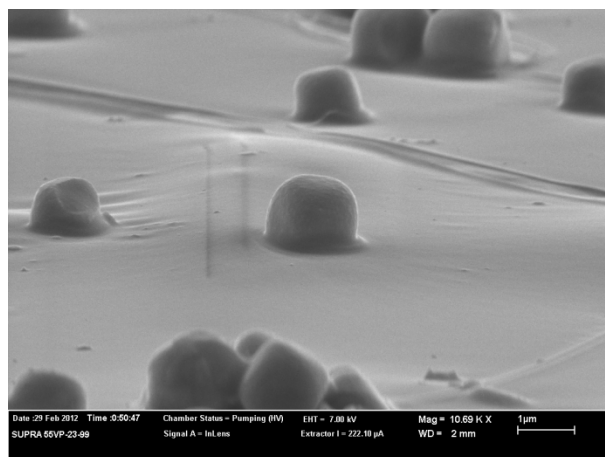
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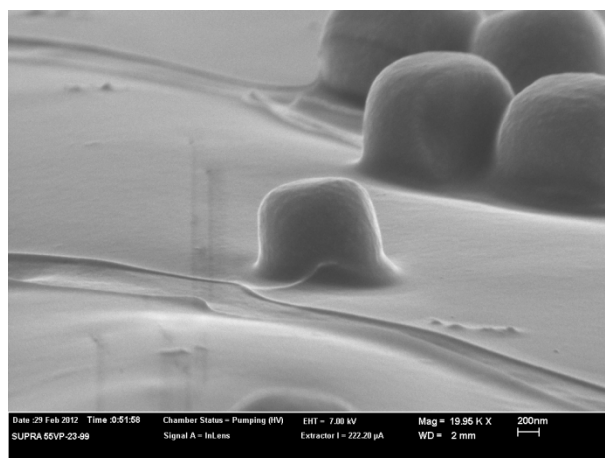
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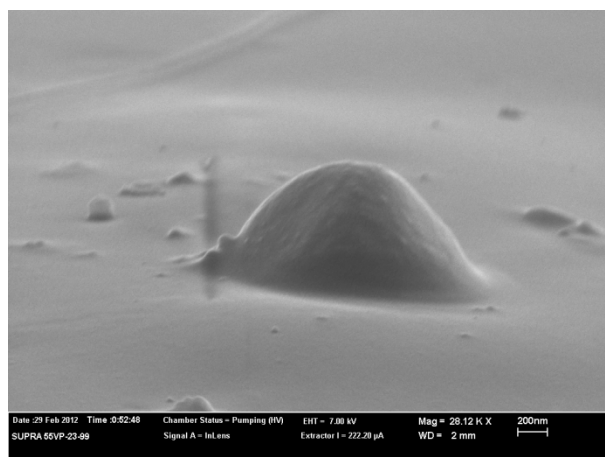
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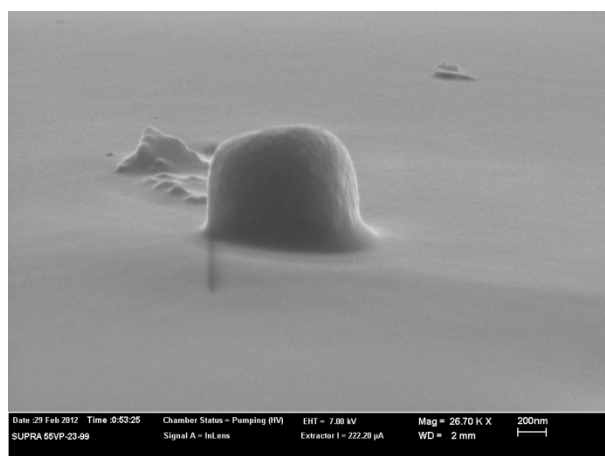
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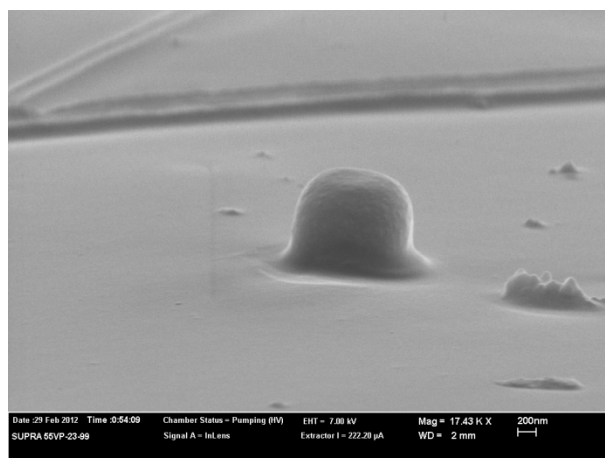
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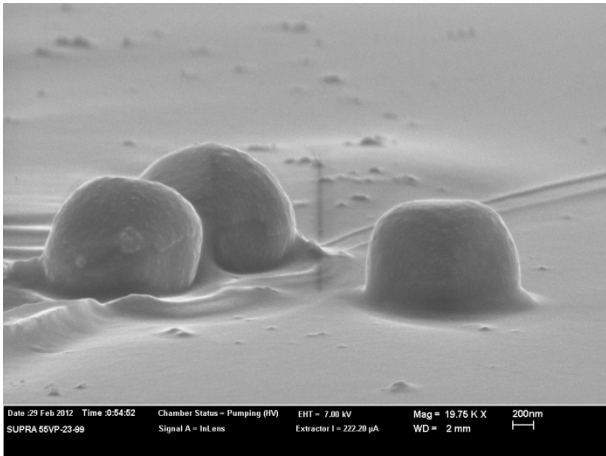
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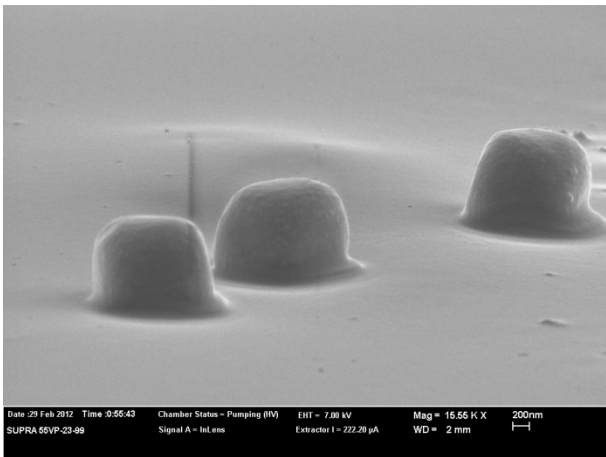
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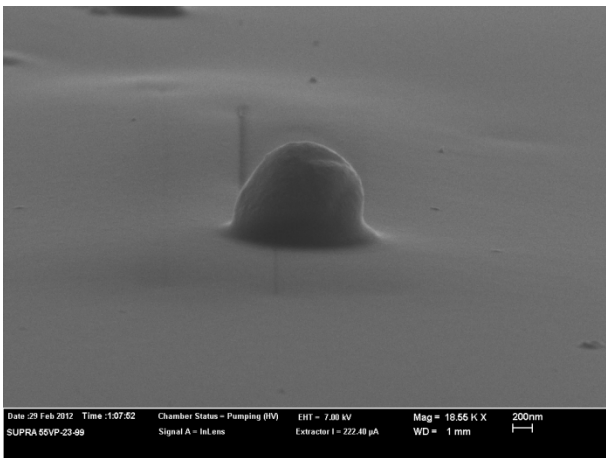
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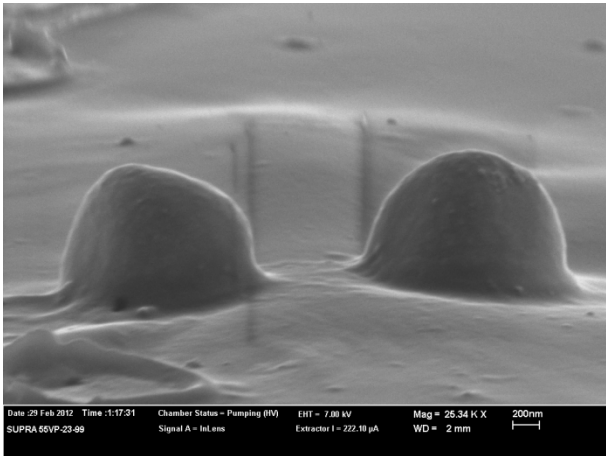
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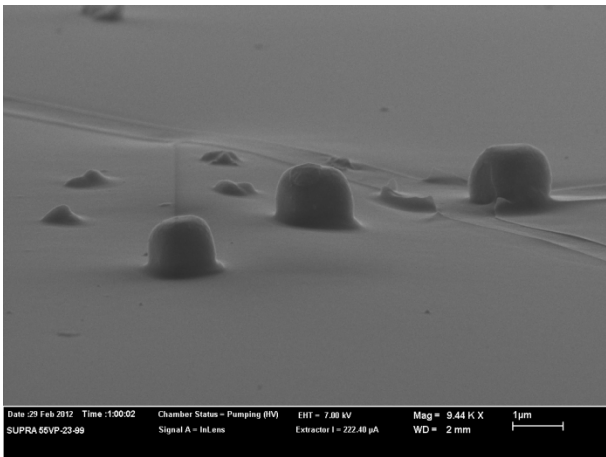
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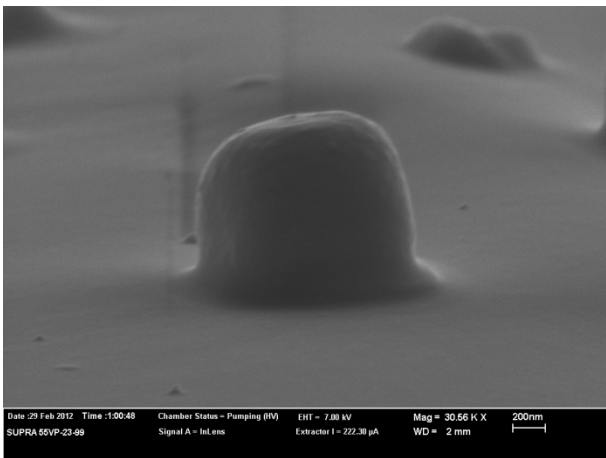
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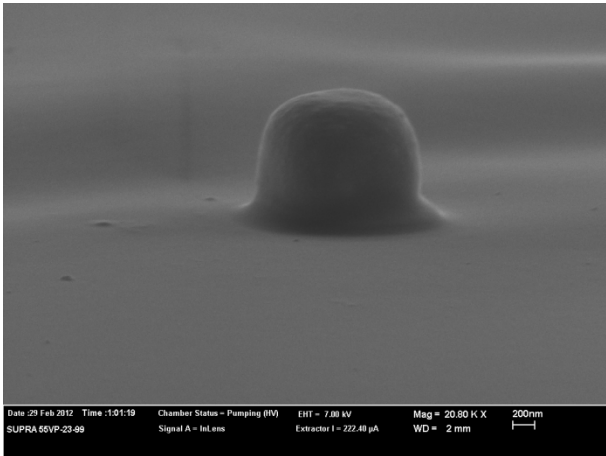
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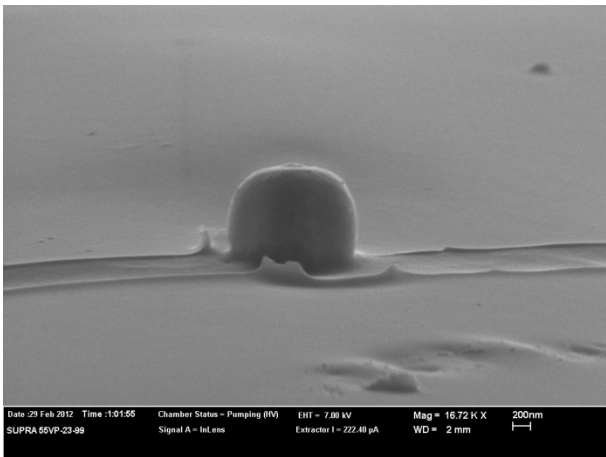
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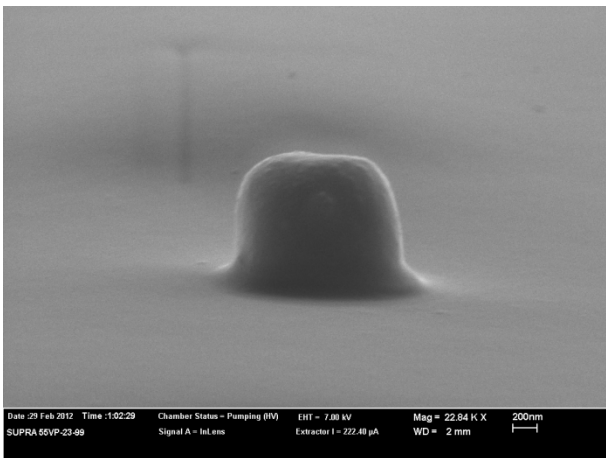
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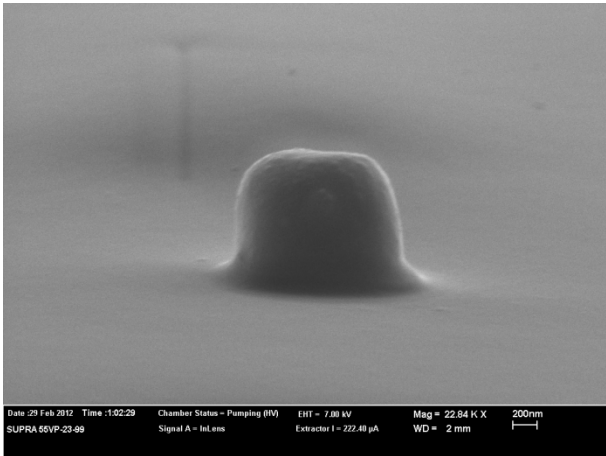
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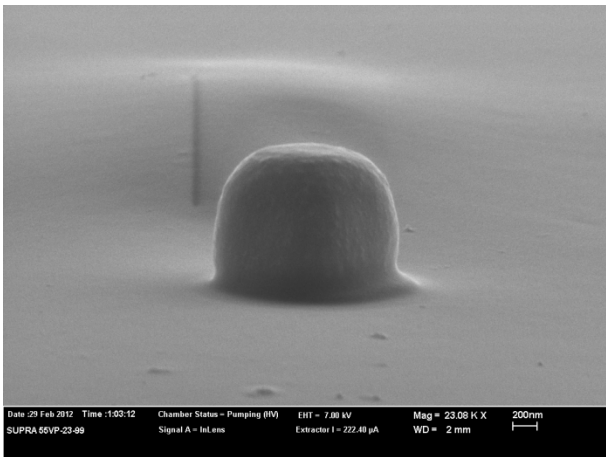
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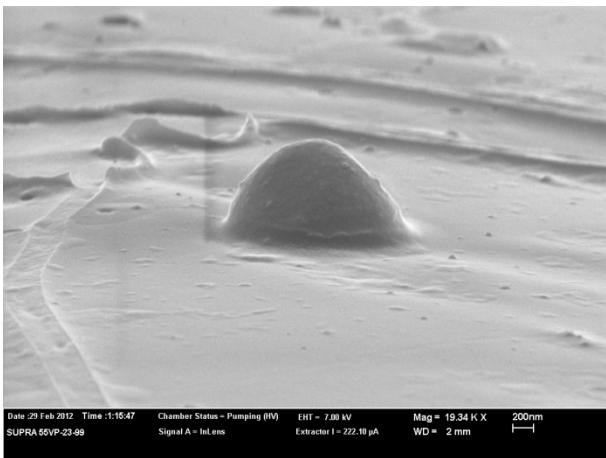
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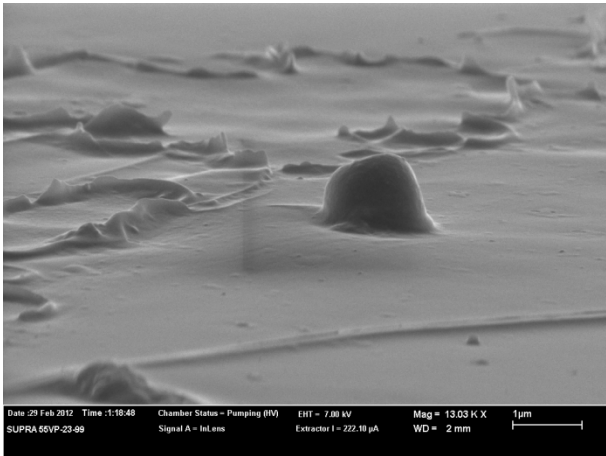
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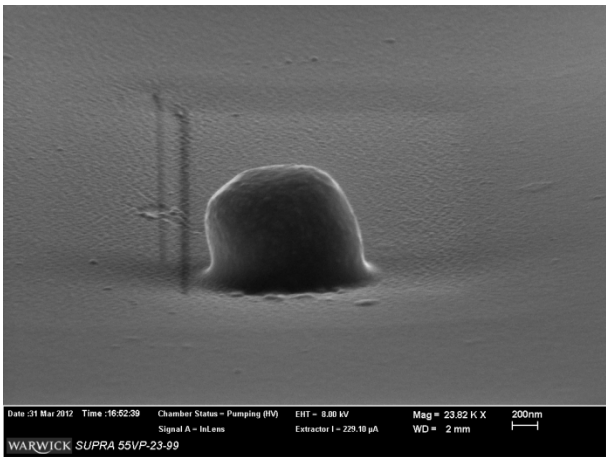
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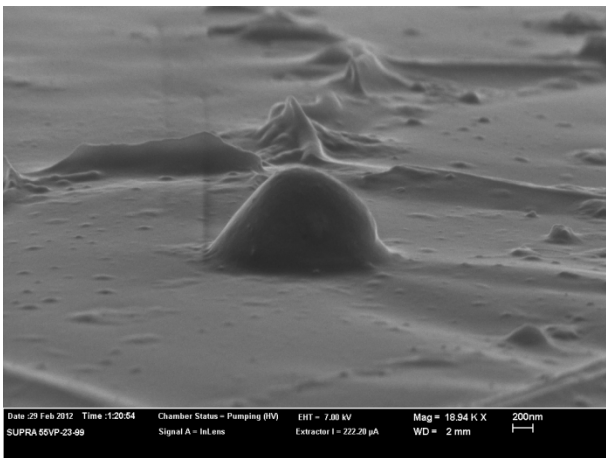
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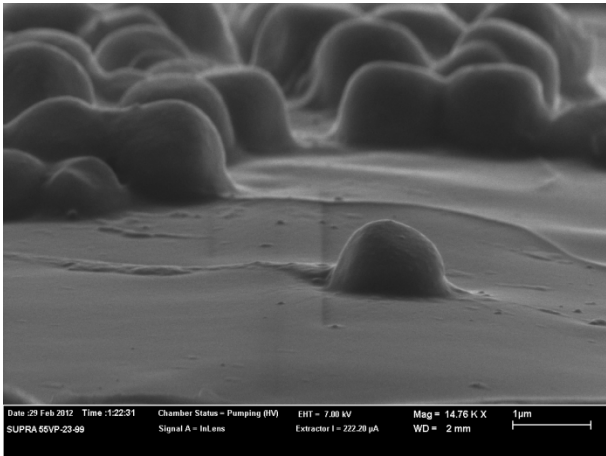
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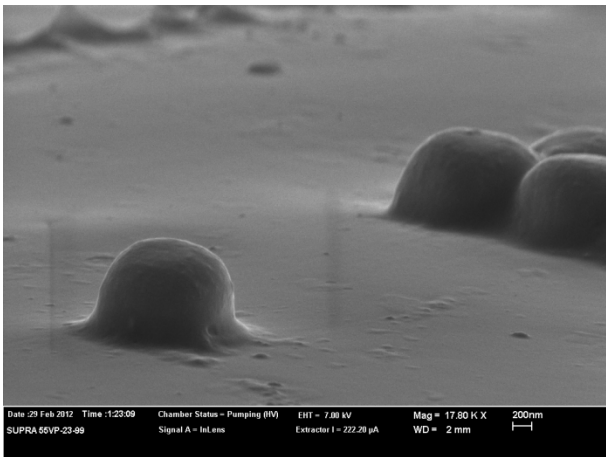
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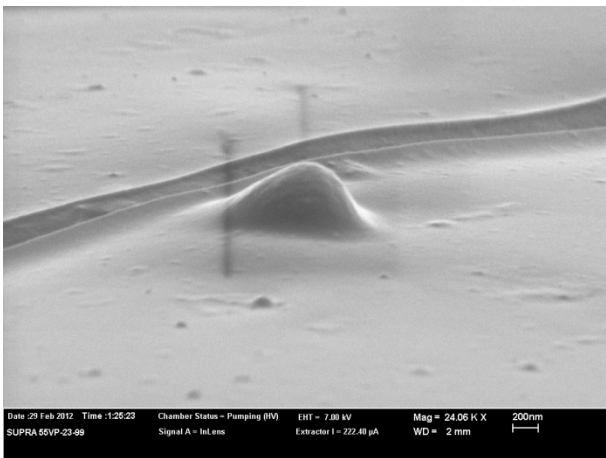
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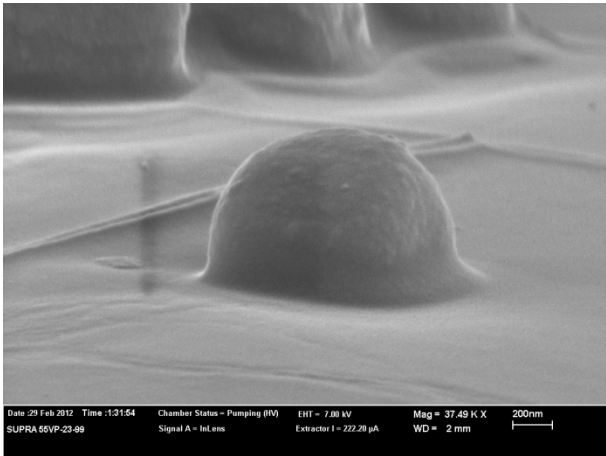
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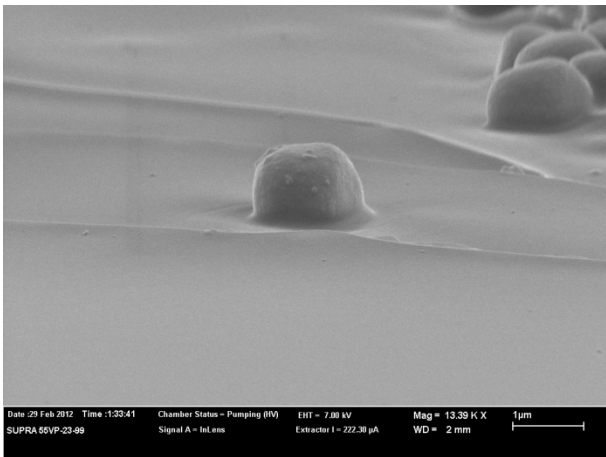
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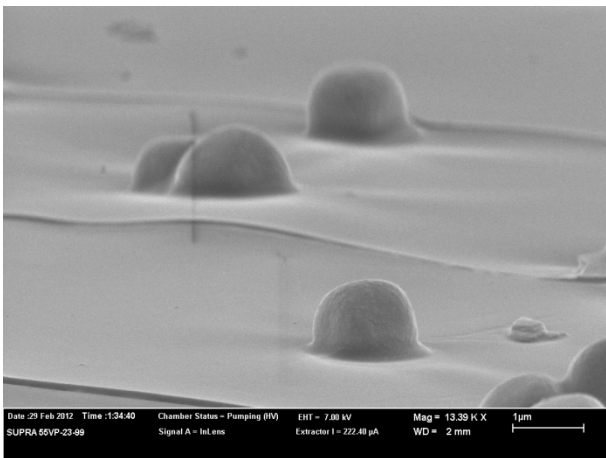
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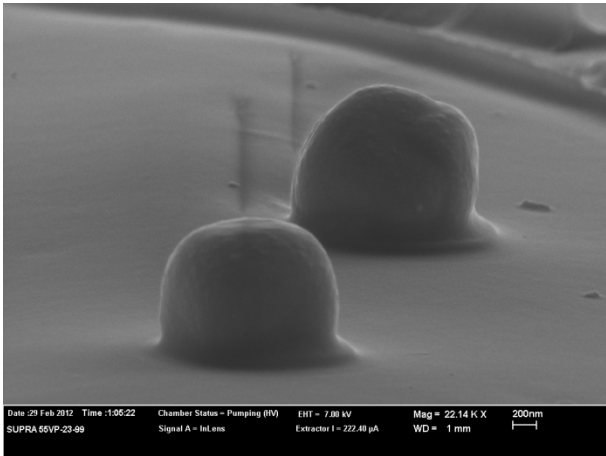
Hematite 091:



Hematite 092:



Hematite 093:



Hematite 094:

