

Fig. 1 Kimura et al.

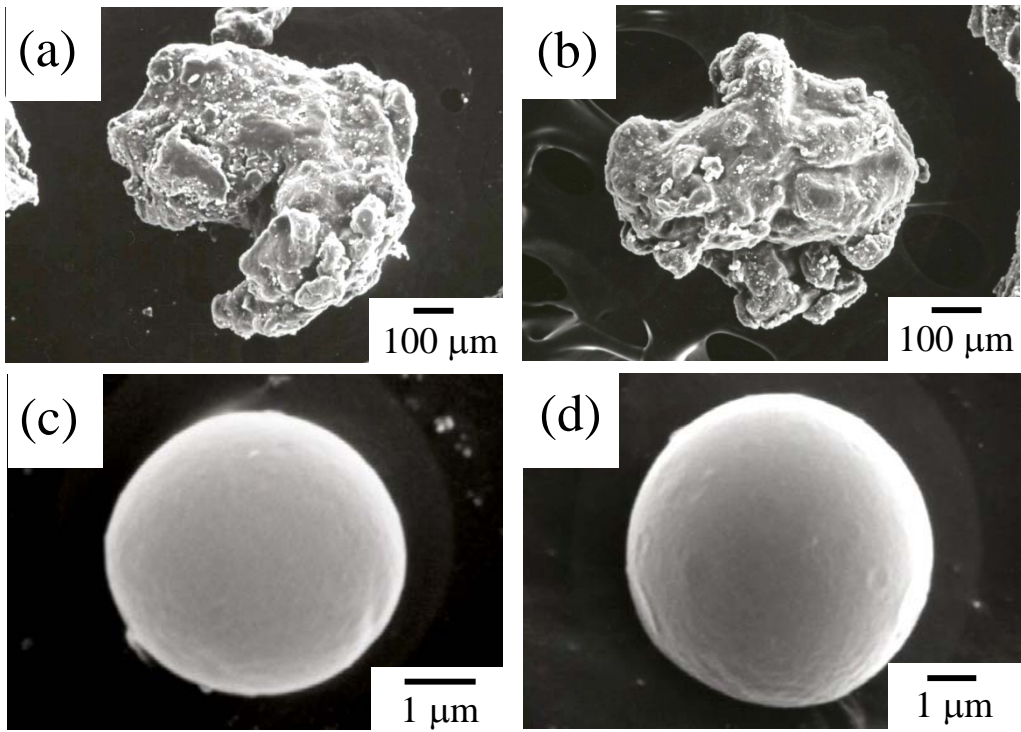


Fig. 2 Kimura et al.

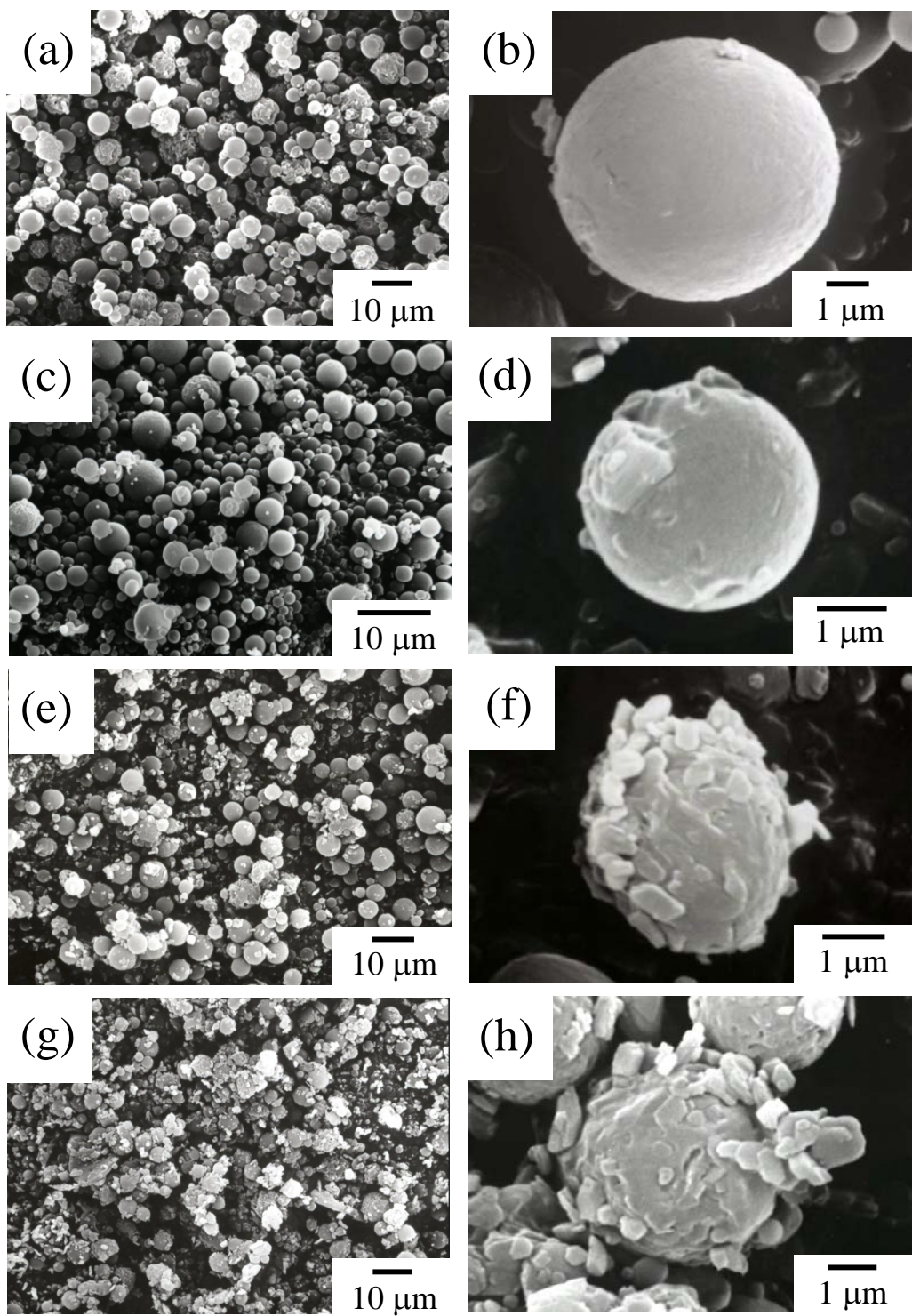


Fig. 3 Kimura et al.

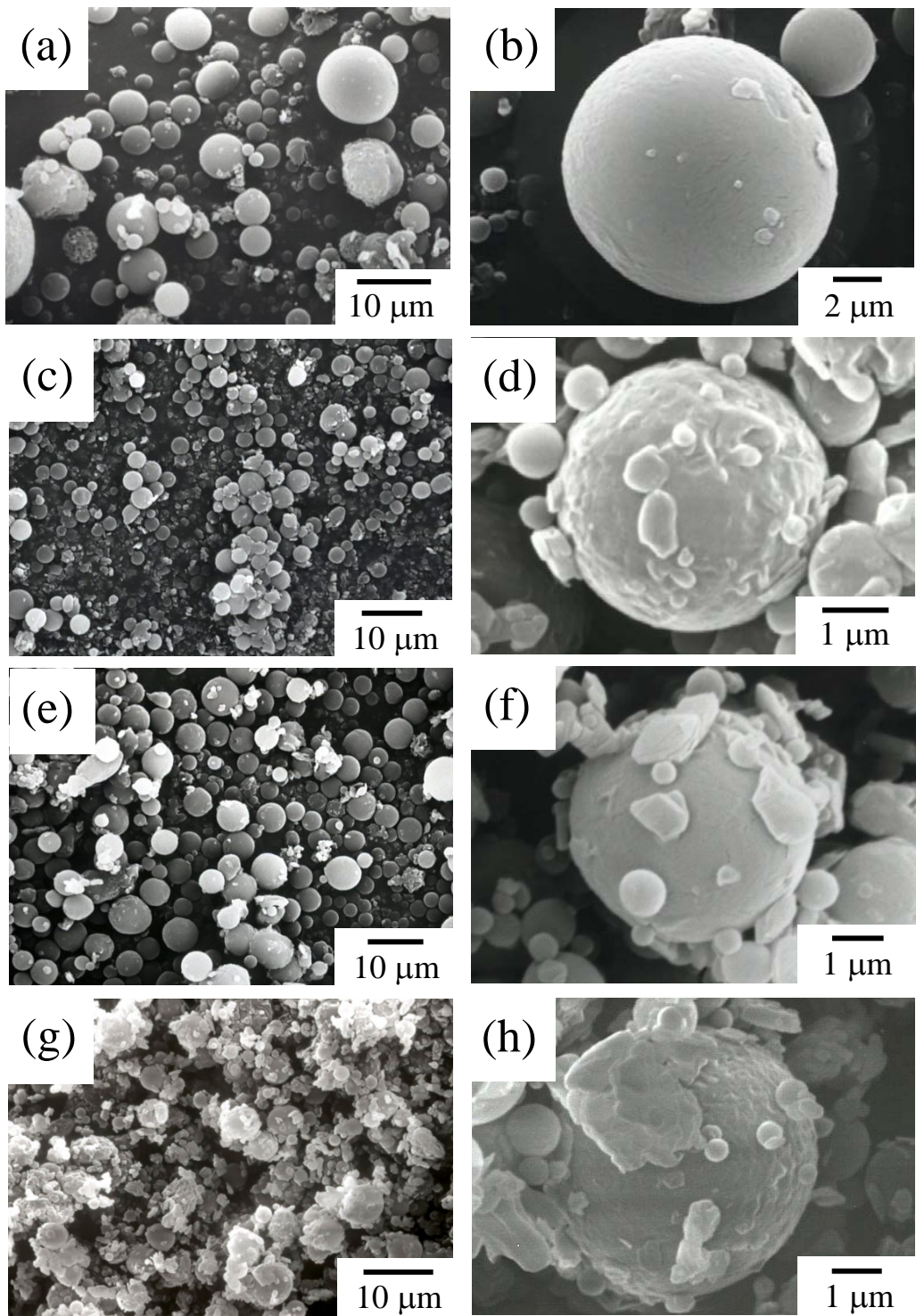


Fig. 4 Kimura et al.



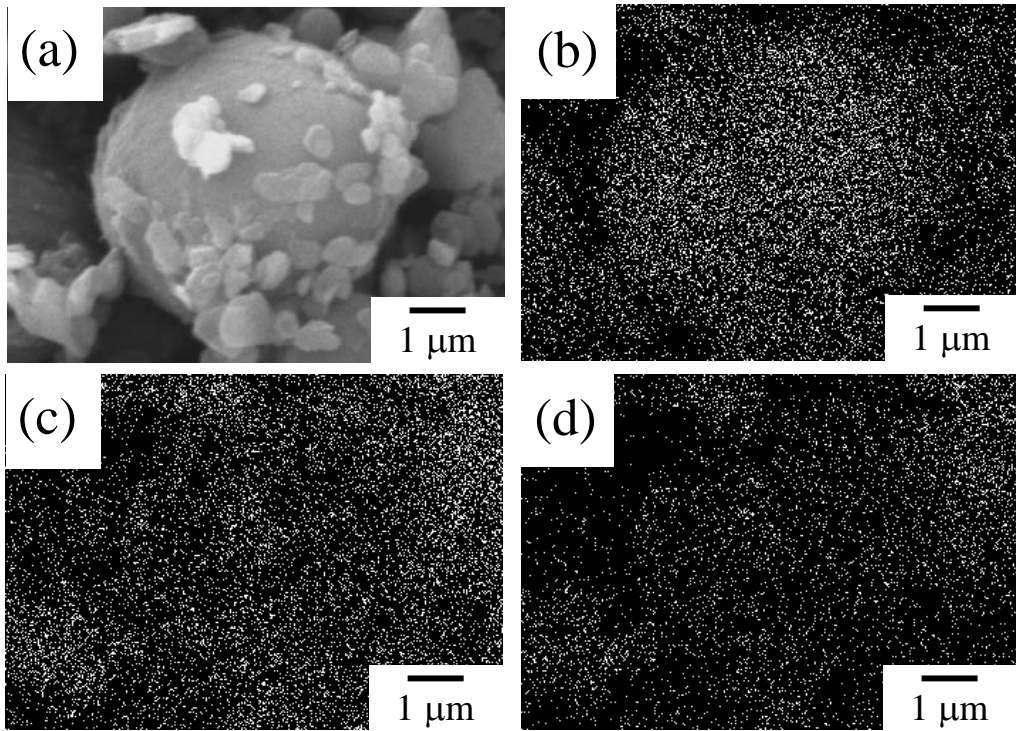


Fig. 5 Kimura et al.

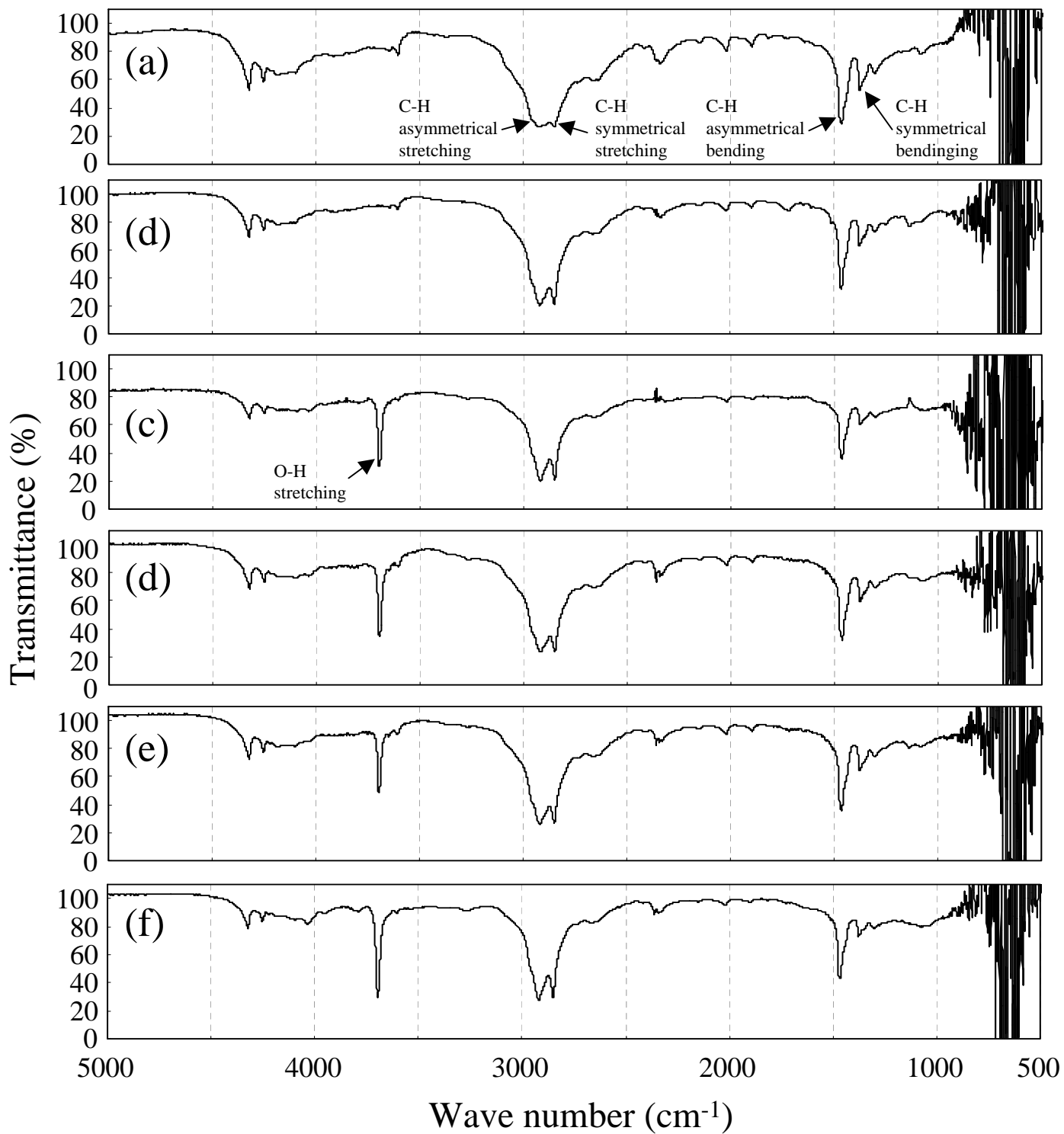


Fig. 6 Kimura et al.

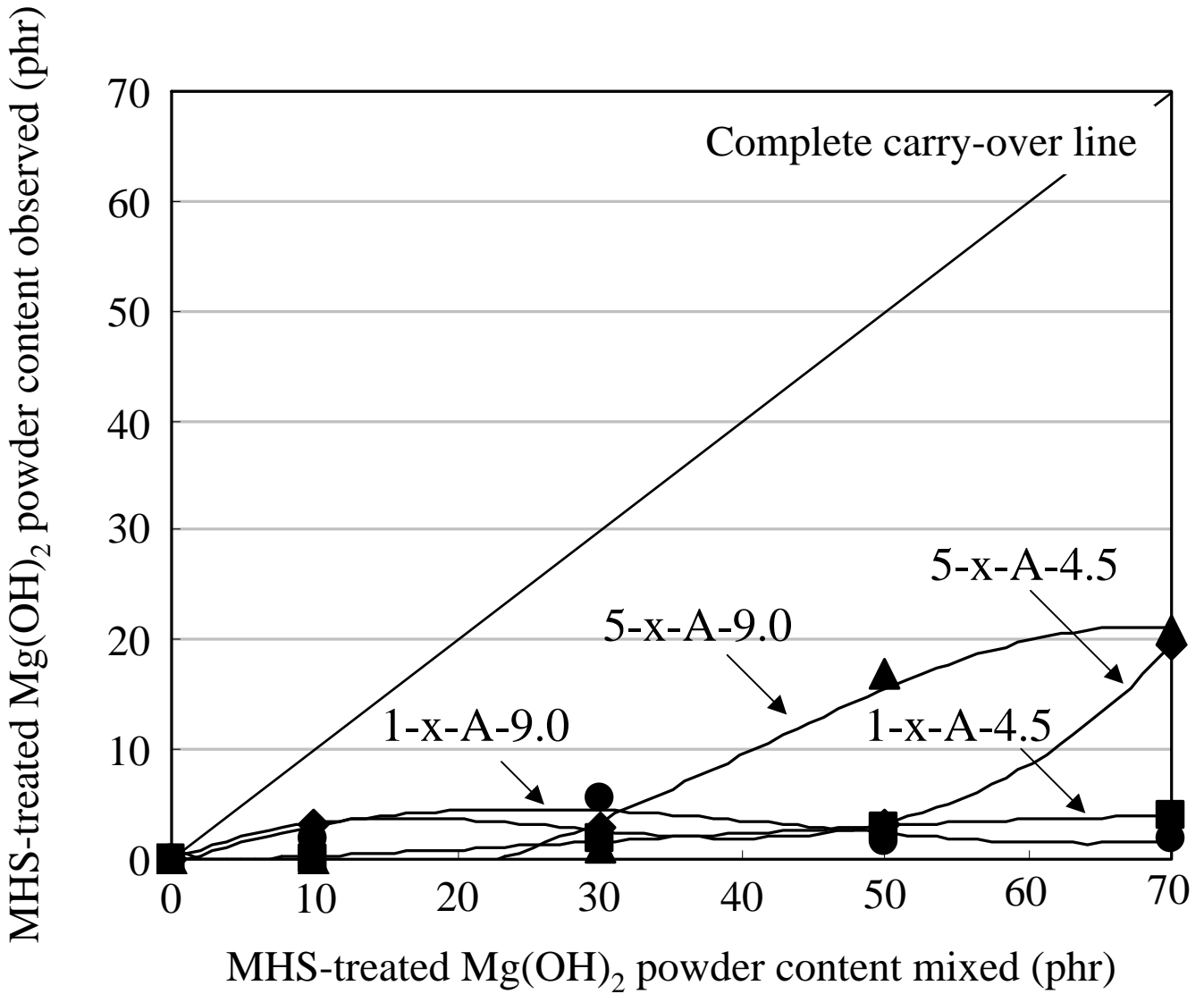


Fig. 7 Kimura et al.

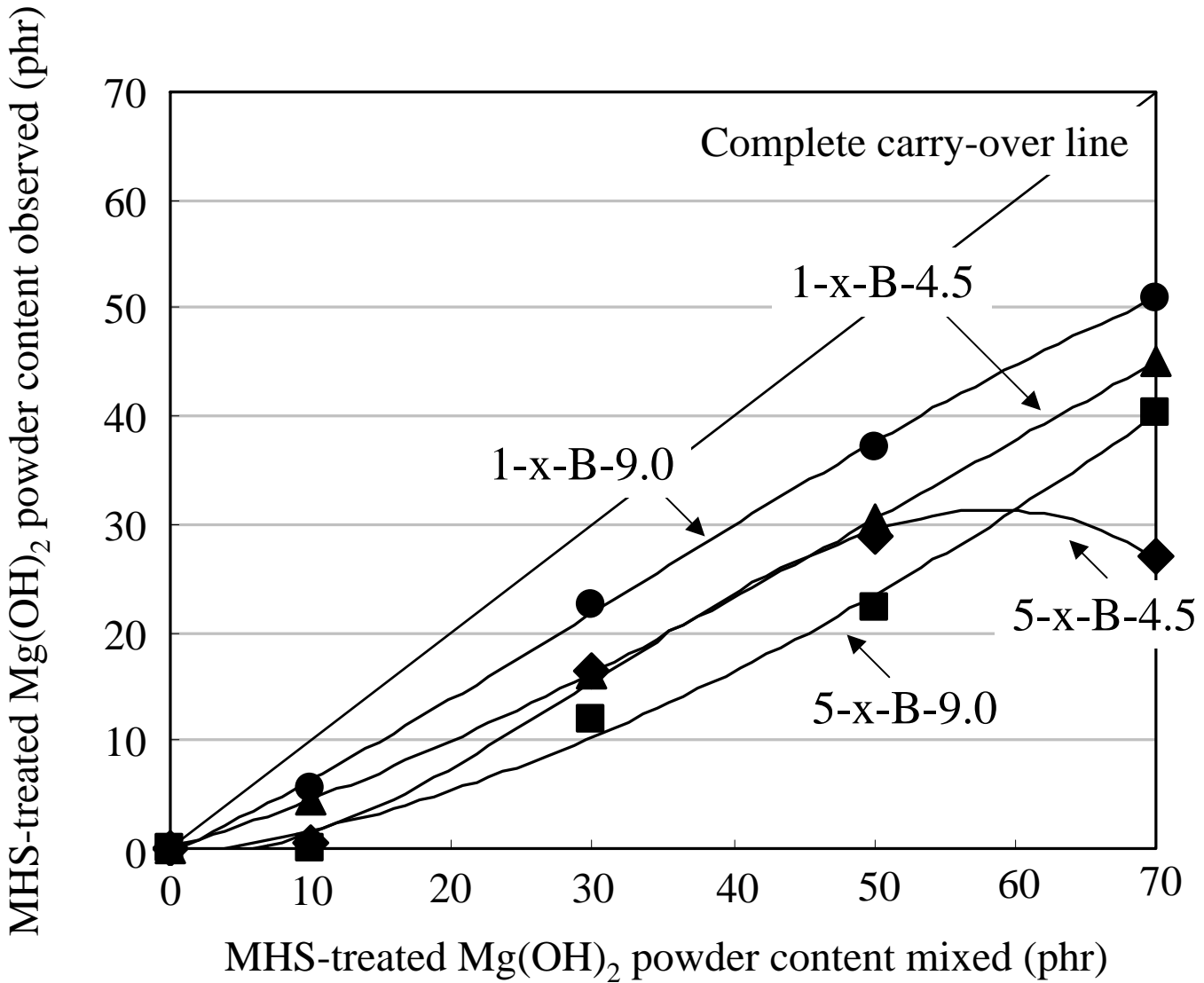


Fig. 8 Kimura et al.



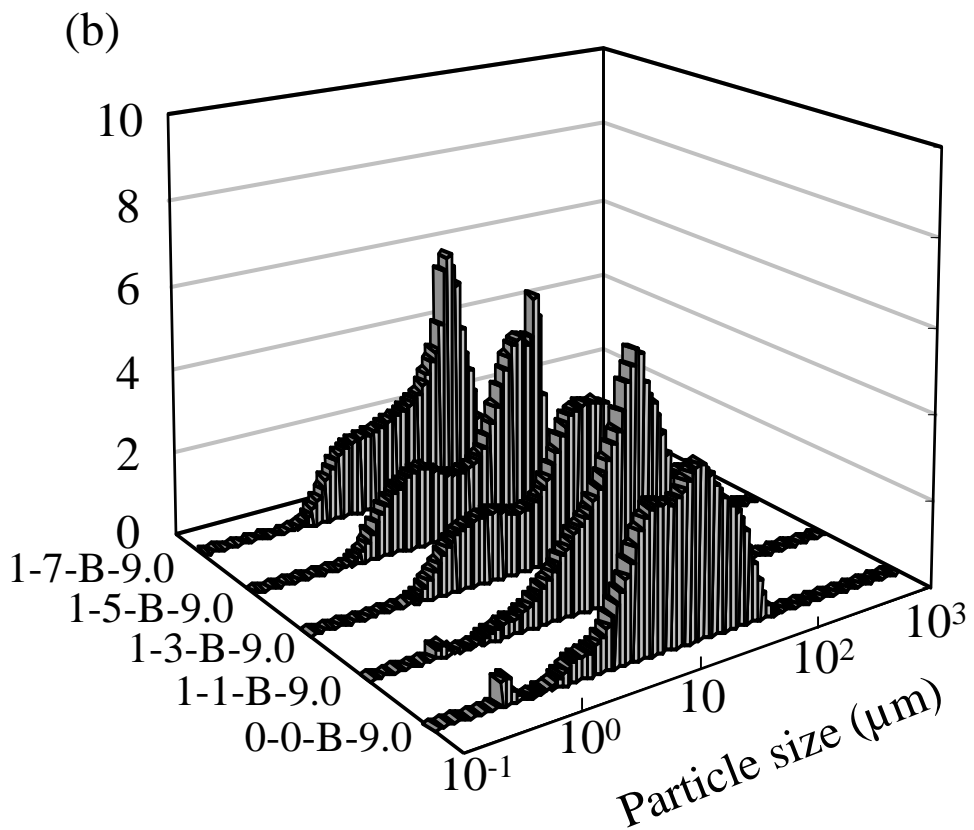
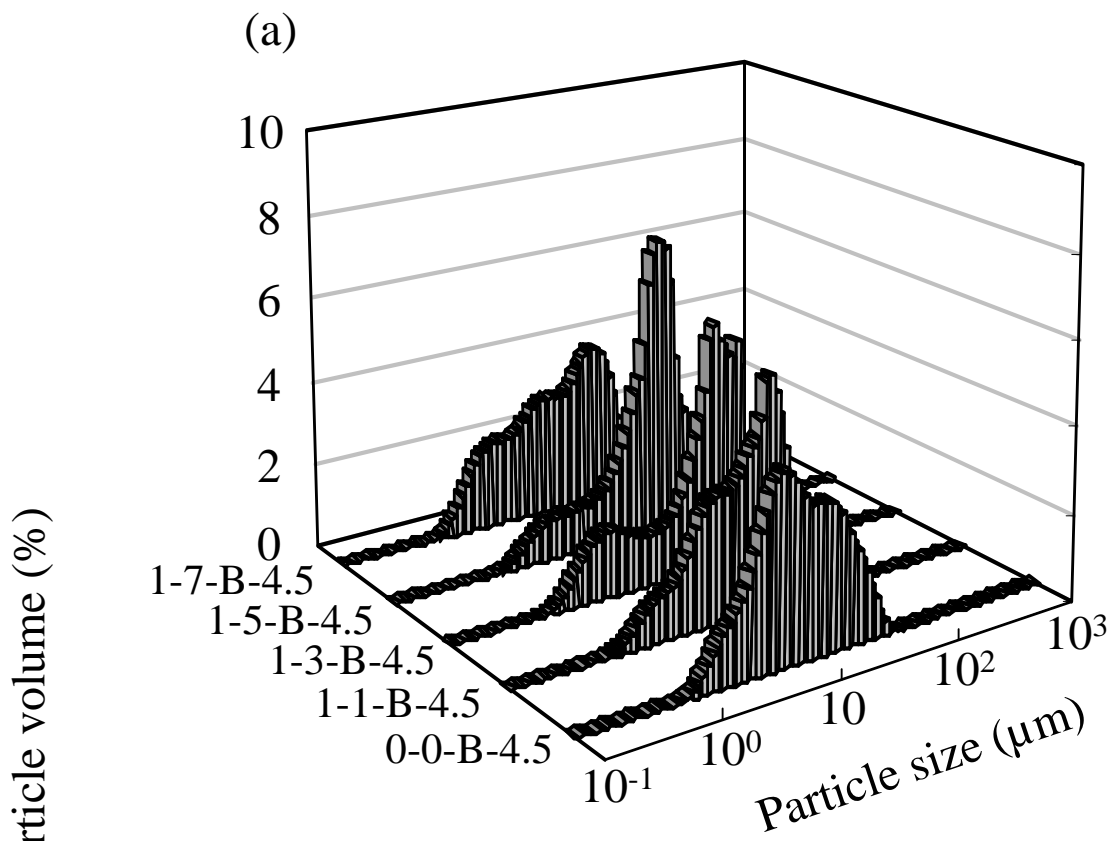
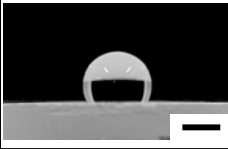
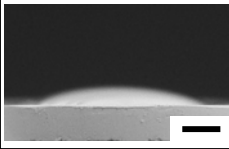
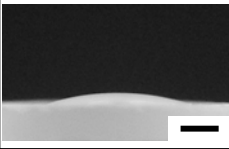
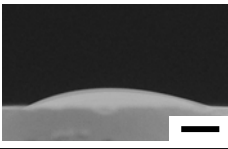
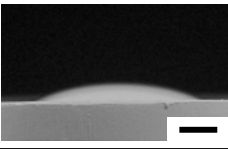
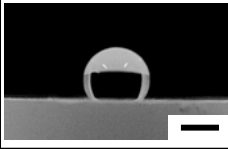
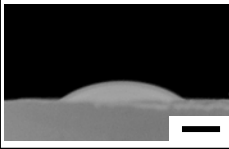
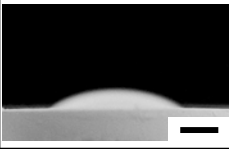
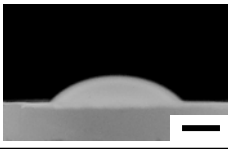
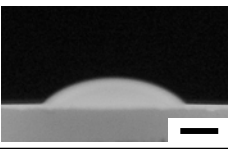


Fig. 9 Kimura et al.

	Deionized water	Continuous phase 1 TritonX-114 (0.5 g/100 ml)	Continuous phase 2 TritonX-114 (1.0 g/100 ml)	Continuous phase 3 TritonX-100 (0.5 g/100 ml)	Continuous phase 4 TritonX-100 (1.0 g/100 ml)
Untreated $Mg(OH)_2$	0.0 (0.0 - 0.0)				
ST-1 1 wt% MHS surface treated $Mg(OH)_2$	120.7 (118.0 - 123.0) 	22.4 (20.4 - 25.0) 	16.9 (15.4 - 17.8) 	26.0 (23.8 - 29.8) 	19.4 (16.8 - 21.6) 
ST-5 5 wt% MHS surface treated $Mg(OH)_2$	123.9 (121.0 - 126.0) 	39.2 (38.2 - 40.0) 	35.0 (33.0 - 38.4) 	46.9 (44.4 - 49.2) 	42.3 (41.0 - 43.6) 

Unit: degree of the angle, scale bar: 1 mm

Fig. 10 Kimura et al.

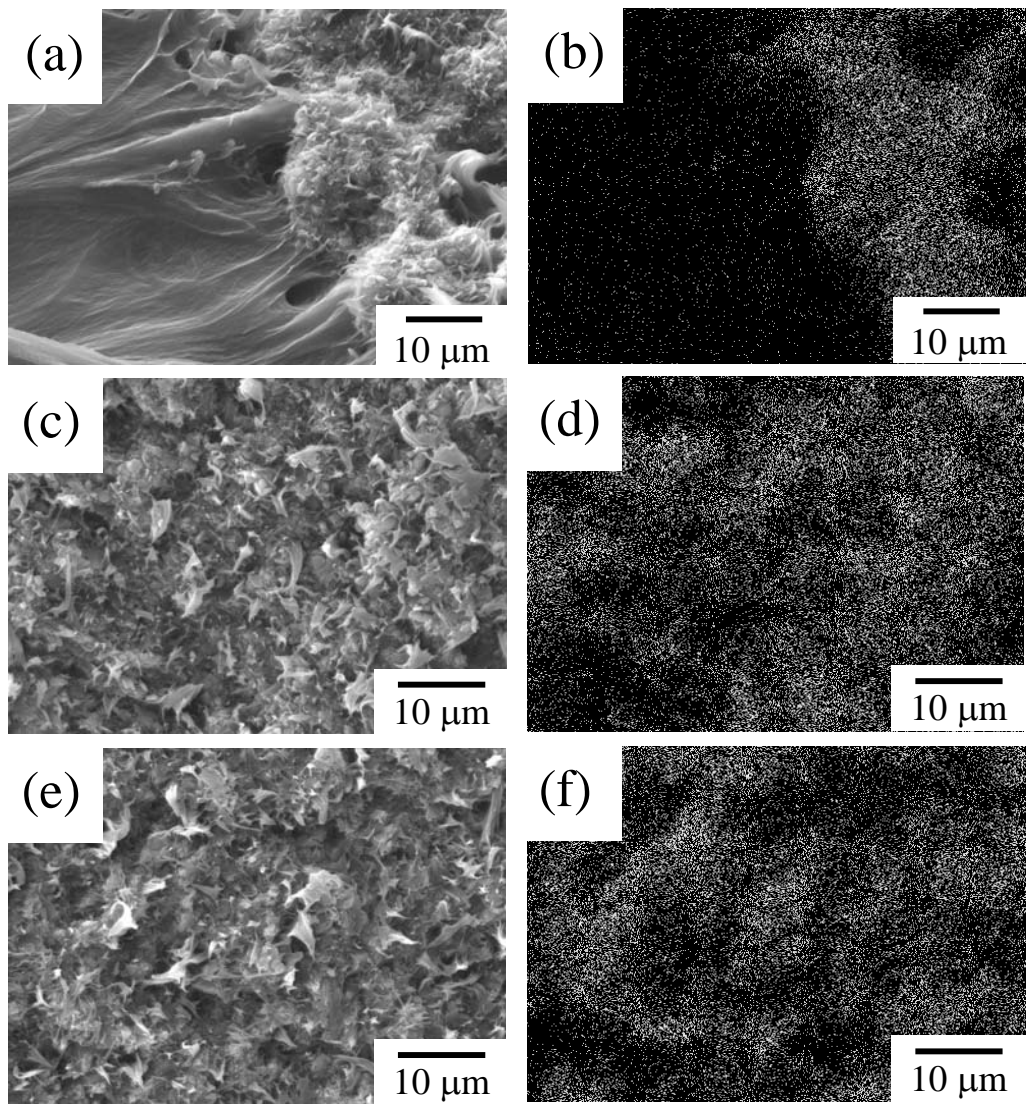


Fig. 11 Kimura et al.

Table 1 Preparation conditions of PE particles and PE-based hybrid particles

Sample No.	Filler	Filler content (phr)	Surfactant	Surfactant content (g/ 900 ml deionized water)
0-0-A-4.5	none	0	TritonX-114	4.5
0-0-A-9.0	none	0	TritonX-114	9.0
0-0-B-4.5	none	0	TritonX-100	4.5
0-0-B-9.0	none	0	TritonX-100	9.0
1-1-A-4.5	ST-1	10	TritonX-114	4.5
1-3-A-4.5	ST-1	30	TritonX-114	4.5
1-5-A-4.5	ST-1	50	TritonX-114	4.5
1-7-A-4.5	ST-1	70	TritonX-114	4.5
1-1-A-9.0	ST-1	10	TritonX-114	9.0
1-3-A-9.0	ST-1	30	TritonX-114	9.0
1-5-A-9.0	ST-1	50	TritonX-114	9.0
1-7-A-9.0	ST-1	70	TritonX-114	9.0
5-1-A-4.5	ST-5	10	TritonX-114	4.5
5-3-A-4.5	ST-5	30	TritonX-114	4.5
5-5-A-4.5	ST-5	50	TritonX-114	4.5
5-7-A-4.5	ST-5	70	TritonX-114	4.5
5-1-A-9.0	ST-5	10	TritonX-114	9.0
5-3-A-9.0	ST-5	30	TritonX-114	9.0
5-5-A-9.0	ST-5	50	TritonX-114	9.0
5-7-A-9.0	ST-5	70	TritonX-114	9.0
1-1-B-4.5	ST-1	10	TritonX-100	4.5
1-3-B-4.5	ST-1	30	TritonX-100	4.5
1-5-B-4.5	ST-1	50	TritonX-100	4.5
1-7-B-4.5	ST-1	70	TritonX-100	4.5
1-1-B-9.0	ST-1	10	TritonX-100	9.0
1-3-B-9.0	ST-1	30	TritonX-100	9.0
1-5-B-9.0	ST-1	50	TritonX-100	9.0
1-7-B-9.0	ST-1	70	TritonX-100	9.0
5-1-B-4.5	ST-5	10	TritonX-100	4.5
5-3-B-4.5	ST-5	30	TritonX-100	4.5
5-5-B-4.5	ST-5	50	TritonX-100	4.5
5-7-B-4.5	ST-5	70	TritonX-100	4.5
5-1-B-9.0	ST-5	10	TritonX-100	9.0
5-3-B-9.0	ST-5	30	TritonX-100	9.0
5-5-B-9.0	ST-5	50	TritonX-100	9.0
5-7-B-9.0	ST-5	70	TritonX-100	9.0

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