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APPENDIX

Table A-1 Pore volume of the mixed oxide catalysts with the aging time = 50 h

Calcination Temperature (°C)	Pore Volume (cc/g)					
	Ratio of Ce : Zr					Ce : Y
	100 : 0	75 : 25	50 : 50	25 : 75	0 : 100	50 : 50
Not Calcined	0.00525	0.00346	0.04017	0.05925	0.15130	0.00538
500	0.03330	0.03473	0.03144	0.02342	0.01970	0.00768
700	0.00744	0.01271	0.01005	0.00180	0.00760	-
900	0.00139	0.00177	0.00296	0.00627	0.00341	-

Table A-2 Pore volume of the mixed oxide catalysts with the aging time = 80 h

Calcination Temperature (°C)	Pore Volume (cc/g)				
	Ratio of Ce : Zr				
	100 : 0	75 : 25	50 : 50	25 : 75	0 : 100
Not Calcined	0.00507	0.00151	0.00431	0.00563	0.06605
500	0.04049	0.03689	0.04198	0.03484	0.02470
700	0.01345	0.01139	0.02195	0.01279	0.00285
900	0.00180	0.00382	0.00518	0.01204	0.01136

Table A-3 Pore volume of the mixed oxide catalysts with the aging time = 120 h

Calcination Temperature (°C)	Pore Volume (cc/g)				
	Ratio of Ce : Zr				
	100 : 0	75 : 25	50 : 50	25 : 75	0 : 100
Not Calcined	0.00917	0.02738	0.06405	0.1006	0.05869
500	0.04889	0.04983	0.04881	0.04543	0.02329
700	0.01118	0.0172	0.02329	0.02886	0.01305
900	0.00210	0.00312	0.01012	0.01217	0.00955

Table A-4 Average pore radius of the mixed oxide catalysts with the aging time = 50 h

Calcination Temperature (°C)	Average Pore Radius (Å)					
	Ratio of Ce : Zr					Ce : Y
	100 : 0	75 : 25	50 : 50	25 : 75	0 : 100	50 : 50
Not Calcined	6.300	4.9770	7.5680	5.4230	7.6560	6.4790
500	6.3760	6.8370	5.9870	5.0830	4.9850	6.480
700	2.4330	4.2080	4.1620	0.7350	4.1120	-
900	3.4170	4.0745	4.7030	5.5615	5.1250	-

Table A-5 Average pore radius of the mixed oxide catalysts with the aging time = 80 h

Calcination Temperature (°C)	Average Pore Radius (Å)				
	Ratio of Ce : Zr				
	100 : 0	75 : 25	50 : 50	25 : 75	0 : 100
Not Calcined	6.1175	4.4370	5.3330	5.0260	5.0790
500	6.6930	6.780	8.2830	7.2280	5.3990
700	5.5160	5.6430	7.2310	5.0380	5.7040
900	5.3940	5.5380	5.3520	6.2250	6.41550

Table A-6 Average pore radius of the mixed oxide catalysts with the aging time = 120 h

Calcination Temperature (C)	Average Pore Radius (Å)				
	Ratio of Ce : Zr				
	100 : 0	75 : 25	50 : 50	25 : 75	0 : 100
Not Calcined	8.335	6.386	7.55	7.752	7.9085
500	9.301	8.659	7.787	6.795	5.399
700	7.053	6.864	7.042	7.23	5.373
900	6.268	6.509	7.078	7.128	5.703

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