

Supplementary data

Figure S1 Low-temperature Ar adsorption–desorption isotherms

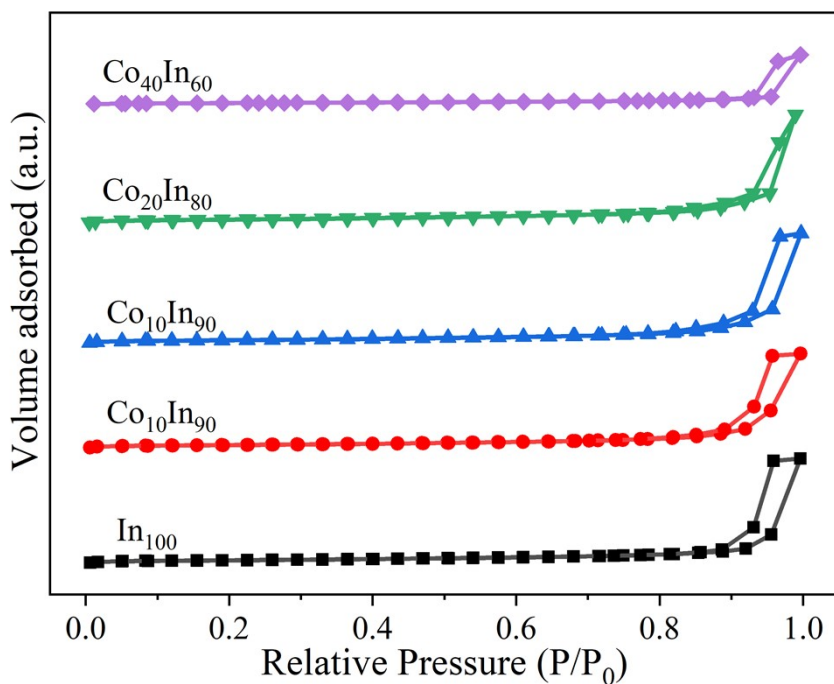


Table S1 Catalyst test results

□	Temperature (°C)	X _{CO2}	S _{MeOH}	S _{CO}	S _{Hydrocarbons}	mmol(MeOH) /g _{cat} ·h	mg(MeOH) /g _{cat} ·h
Co₀₅In₉₅	240	0.0102	0.9776	0.0000	0.0224	0.7134	22.8581
	260	0.0372	0.5754	0.4083	0.0162	1.5537	49.7796
	280	0.0764	0.5421	0.4456	0.0123	3.0714	98.4091
	300	0.1014	0.3745	0.6023	0.0231	2.7330	87.5654
Co₁₀In₉₀	240	0.0146	0.9791	0.0000	0.0209	1.0314	33.0470
	260	0.0470	0.6126	0.3676	0.0199	2.0782	66.5849
	280	0.0884	0.5612	0.4171	0.0217	3.6066	115.5559
	300	0.1122	0.3738	0.5898	0.0364	3.0308	97.1063
Co₂₀In₈₀	240	0.0151	0.9801	0.0000	0.0199	1.0697	34.2716
	260	0.0499	0.6473	0.3351	0.0176	2.3444	75.1143
	280	0.0896	0.5990	0.3937	0.0073	3.9189	125.5602
	300	0.1137	0.4058	0.5492	0.0450	3.3514	107.3773
Co₄₀In₆₀	240	0.0130	0.9698	0.0000	0.0302	0.9106	29.1759
	260	0.0434	0.6652	0.3093	0.0256	2.1017	67.3389

	280	0.0795	0.5972	0.3604	0.0424	3.4587	110.8160
	300	0.1010	0.4405	0.4937	0.0657	3.2305	103.5047
Co₆₀In₄₀	240	0.0100	0.9767	0.0000	0.0233	0.7021	22.4962
	260	0.0338	0.6588	0.2919	0.0493	1.6095	51.5690
	280	0.0652	0.6168	0.3617	0.0215	2.9248	93.7092
	300	0.0863	0.4546	0.4755	0.0699	2.8417	91.0483
In₁₀₀	240	0.0033	0.9507	0.0000	0.0493	0.2244	7.1897
	260	0.0065	0.9424	0.0000	0.0576	0.4424	14.1744
	280	0.0279	0.4204	0.5481	0.0315	0.8501	27.2374
	300	0.0532	0.4100	0.5530	0.0370	1.5858	50.8077
Ni₁₀In₉₀	240	0.0283	0.4261	0.5683	0.0055	0.8823	28.2693
	260	0.0570	0.2334	0.7595	0.0071	0.9727	31.1663
	280	0.1176	0.1191	0.8730	0.0080	1.0209	32.7099
	300	0.1763	0.0767	0.9121	0.0112	0.9839	31.5251
Ni₂₀In₈₀	240	0.0285	0.4105	0.5799	0.0096	0.8555	27.4092
	260	0.0460	0.2817	0.7069	0.0114	0.9473	30.3505
	280	0.0746	0.1719	0.8144	0.0137	0.9367	30.0132
	300	0.1149	0.1157	0.8683	0.0160	0.9690	31.0464
Ni₄₀In₆₀	240	0.0201	0.4268	0.5607	0.0125	0.6265	20.0716
	260	0.0327	0.3286	0.6521	0.0194	0.7853	25.1617
	280	0.0525	0.2390	0.7377	0.0233	0.9157	29.3389
	300	0.0821	0.1624	0.8088	0.0287	0.9733	31.1842