Table 2 Conditions and Results

	Sintering conditions				Sintering results					
	Composition	Mixing apparatus	Mixing conditions	Sintering temperature	Relative density	Particle count	D10	D50	D90	Less than 1 μm
	mol%			(°C)	(%)		(μm)	(μm)	(μm)	(%)
Ex. 1	(Fe-50Pt)-40C	Shaking mixer	32rpm48h	900	96.8	6	0.77	3.14	7.85	13.84
Ex. 2	(Fe-50Pt)-40C	Shaking mixer	32rpm24h	900	96.8	11	1.93	5.85	14.63	3.80
Ex. 3	(Fe-50Pt)-40C	Shaking mixer	32rpm48h	900	95.5	18	0.69	2.84	6.97	22.76
Ex. 4	(Fe-45Pt-10Ag)-40C	Shaking mixer	32rpm48h	900	97.2	4	1.37	3.96	8.16	6.88
Ex. 5	(Fe-52Pt)-30C-6SiO_2	Shaking mixer	32rpm48h	900	95.9	23	0.71	3.26	10.25	15.69
Ex. 6	(Fe-45Pt)-30C-5BN	Shaking mixer	32rpm48h	900	95.9	15	0.93	3.43	8.48	10.96
Ex. 7	(Co-5Cr-23Pt)-40C	Shaking mixer	32rpm48h	900	93.8	13	1.94	4.23	8.25	1.54
Ex. 8	(Co-12Cr-18Pt)-20C	Shaking mixer	32rpm48h	900	95.8	22	1.68	4.14	7.99	3.22
Ex. 9	(Fe-30Co-30Pt)-50C	Shaking mixer	32rpm48h	900	96.0	18	0.89	3.33	8.35	11.22
Comp. Ex. 1	(Fe-50Pt)-40C	Shaking mixer	32rpm15min	900	97.1	101	5.22	19.64	49.68	0.00
Comp. Ex. 2	(Fe-50Pt)-40C	Medium stirring mill	300rpm3h	1,150	94.9	316	2.53	7.98	21.35	1.62
Comp. Ex. 3	(Fe-50Pt)-40C	Medium stirring mill	462rpm12h	1,300	95.8	404	0.35	1.33	3.66	43.14