

## Supplemental information

Table. Refined crystal parameters for 1 mol% Pt/PNCG and 2 mol% Pt/PNCG.

		0.5mol%	1mol%	2 mol%
Space group	Tetragonal	I4/mmm	I4/mmm	I4/mmm
Unit cell parameters	a = b (Å)	3.83590(3)	3.83148(4)	3.83450(3)
	c (Å)	12.5267(2)	12.5127(2)	12.5207(1)
unit cell volume	V (Å <sup>3</sup> )	184.319(5)	183.689(7)	184.096(5)
Pr	Wyckoff position	4e	4e	4e
	g (Pr)	0.95	0.95	0.95
	z (Pr)	0.35924(6)	0.35837(7)	0.35874(6)
	U (Pr) (Å <sup>2</sup> )	0.00287(1)	0.0002(1)	0.0002(1)
Ni, Cu, Ga	Wyckoff position	2a	2a	2a
	g (Ni)	0.74	0.71	0.71
	g (Cu)	0.24	0.24	0.24
	g(Ga)	0.05	0.05	0.05
	U (Ni,Cu,Ga) (Å <sup>2</sup> )	0.0022(8)	0.0041(7)	0.0065(7)
O1	Wyckoff position	4c	4c	4c
	g (O1)	1	1	1
	U (O1) (Å <sup>2</sup> )	0.01267	0.041(5)	0.011(3)
O2	Wyckoff position	4c	4c	4c
	g (O2)	1	1	1
	z (O2)	0.175	0.1808(6)	0.1727(6)
	U (O2) (Å <sup>2</sup> )	0.012(6)	0.021(2)	0.027(3)
O3	Wyckoff position	16n	16n	16n
	g (O3)	0.035	0.0385	0.039
	x (O3)	0.0586(3)	0.686(2)	0.672(2)
	z (O3)	0.0233(8)	0.1935(8)	0.2080(5)
	U (O3) (Å <sup>2</sup> )	0.012(6)	0.072(5)	0.011(4)
reliability factors	R <sub>wp</sub> (%)	7.34	6.56	5.80
	R <sub>p</sub> (%)	5.55	4.97	4.31
	R <sub>e</sub> (%)	4.19	3.44	3.39
	R <sub>I</sub> (%)	13.54	6.42	5.89
	R <sub>F</sub> (%)	8.20	4.53	3.55