

Table S1. Intermolecular S...S short distances within Ni(dmit)₂ layer

Interaction	Distance (Å)	Symmetry	Interaction	Distance(Å)	Symmetry
S1...S22	3.521	x, y, z	S1...S26	3.534	-x, -y, 1-z
S1...S27	3.563	x, y, z	S1...S21	3.658	-x, -y, 1-z
S2...S22	3.595	1-x, -y, 1-z	S2...S24	3.610	1-x, -y, 1-z
S2...S28	3.619	1+x, y, z	S2...S26	3.645	1+x, y, z
S3...S27	3.557	x, y, z	S3...S21	3.593	-x, -y, 1-z
S3...S20	3.643	x, y, z	S6...S14	3.588	x, y, z
S6...S12	3.634	x, y, z	S6...S16	3.644	1-x, 1-y, 1-z
S7...S12	3.529	2-x, 1-y, 1-z	S7...S17	3.556	2-x, 1-y, 1-z
S7...S16	3.595	1+x, y, z	S7...S11	3.606	1+x, y, z
S8...S25	3.678	1+x, y, z	S9...S11	3.531	1+x, y, z
S9...S17	3.548	2-x, 1-y, 1-z	S9...S19	3.639	2-x, 1-y, 1-z
S9...S13	3.686	1+x, y, z	S12...S23	3.602	1+x, y, z
S15...S20	3.696	1-x, 1-y, 1-z	S16...S24	3.502	x, y, z
S17...S21	3.509	1+x, y, z	S17...S26	3.660	1+x, y, z
S18...S22	3.506	x, y, z	S19...S26	3.471	1+x, y, z
S19...S28	3.683	1+x, y, z			