Supporting Information

Doped-MXene Assists in Deciphering Metabolic Signature of

Psoriasis and Unraveling Dysregulated Leukotriene Metabolism

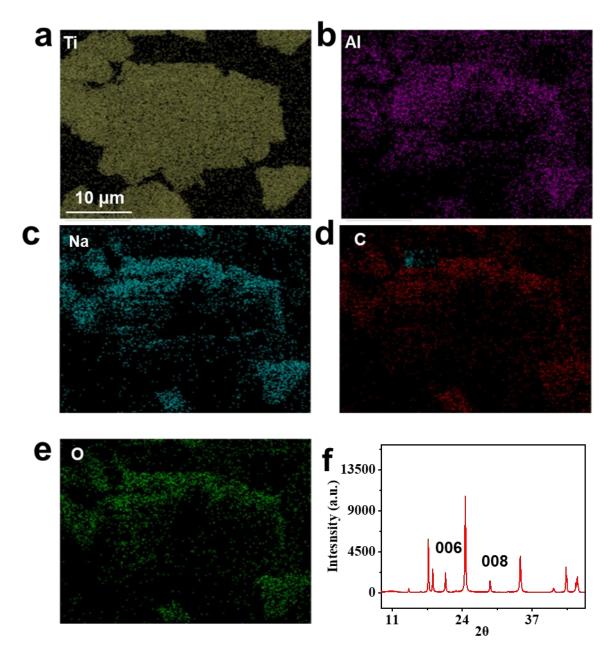
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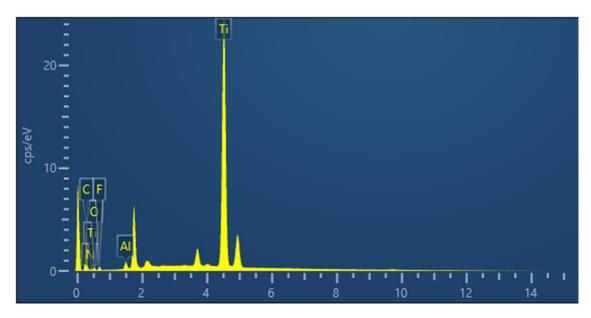
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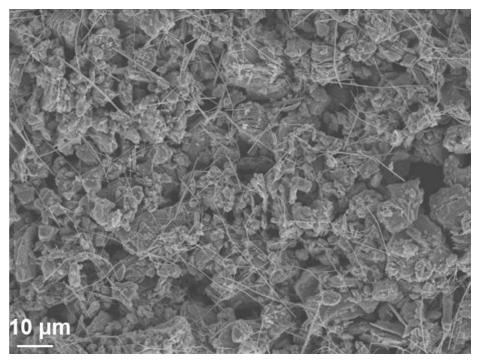
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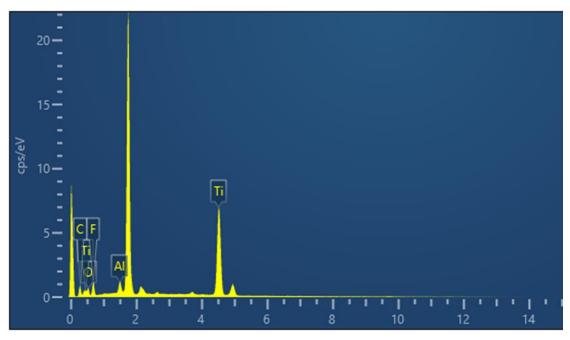
S1. Mapping analysis of MXene, including the a) Ti, b) Al, c) Na, d) C and e) O. f) XRD analysis of MXene.



S2. Elemental analysis for MXene.



\$3.SEM characterization for bulk Mxene/MWCNTs.



S4. Elemental analysis for MXene/MWCNTs.

Table S1. Elemental analysis of MXene.

Element	Туре	wt%	Wt % Sigma	At%
С	K	12.18	0.36	26.61
О	К	10.27	0.51	16.84
F	K	4.88	0.05	1.56
Al	К	13.88	0.38	22.78
Ti	K	58.78	0.49	32.21
Total		100.00		100.00

 Table S2. Elemental analysis of MXene/MWCNTs.

Element	Туре	wt%	Wt % Sigma	At%
С	K	20.08	0.20	47.46
N	K	0.00	0.15	0.00
0	K	2.45	0.20	4.34
F	K	2.05	0.10	3.07
Al	K	0.91	0.02	0.96
Ti	K	74.52	0.25	44.17
Total		100.00		100.00

Table S3. Clinical cohorts of psoriasis and health controls

Number	Type	Age	Sex	PASI	BSA
1	Psoriasis	34	Male	3	Medium
2	Psoriasis	27	Female	1.4	Mild
3	Psoriasis	48	Female	8.4	Medium
4	Psoriasis	9	Female	34.2	Severe
5	Psoriasis	29	Female	11.8	Medium
6	Psoriasis	56	Male	20.6	Severe
7	Psoriasis	32	Male	31.2	Severe
8	Psoriasis	30	Male	21.3	Medium
9	Psoriasis	32	Male	13.8	Severe
10	Psoriasis	35	Male	2.8	Severe
11	Psoriasis	37	Male	4.7	Mild
12	Psoriasis	9	Female	23.5	Severe
13	Psoriasis	68	Male	24.1	Severe
14	Psoriasis	62	Male	33.9	Severe
15	Psoriasis	54	Male	34.5	Severe
16	Psoriasis	31	Male	39.1	Severe
17	Psoriasis	59	Female	12.8	Severe
18	Psoriasis	27	Female	3.5	Medium
19	Psoriasis	69	Male	23.4	Severe
20	Psoriasis	41	Male	8.7	Severe
21	Psoriasis	29	Male	19	Severe
22	Psoriasis	49	Female	28.5	Severe
23	Psoriasis	22	Female	27.8	Severe
24	Psoriasis	67	Male	20.8	Severe
25	Psoriasis	37	Male	30.7	Severe
26	Psoriasis	52	Male	39.6	Severe
27	Psoriasis	75	Male	26.6	Severe
28	Psoriasis	24	Female	6.9	Severe
29	Psoriasis	25	Male	9	Severe
30	Psoriasis	56	Male	17.9	Severe
31	Psoriasis	27	Male	4	Severe
32	Psoriasis	22	Male	16.2	Severe
33	Psoriasis	27	Male	15.2	Severe
34	Psoriasis	20	Male	1.2	Mild
35	Psoriasis	31	Female	9.8	Severe
36	Psoriasis	45	Male	1.2	Mild
37	Psoriasis	35	Male	5.3	Severe
38	Psoriasis	70	Male	14.7	Severe
1	Health control	39	Female	/	/
2	Health control	24	Female	/	/
3	Health control	32	Male	/	/

4	Health control	24	Female	/	/
5	Health control	37	Female	/	/
6	Health control	43	Female	/	/
7	Health control	28	Female	/	/
8	Health control	38	Female	/	/
9	Health control	58	Female	/	/
10	Health control	61	Male	/	/
11	Health control	23	Female	/	/
12	Health control	58	Female	/	/
13	Health control	31	Female	/	/
14	Health control	30	Female	/	/
15	Health control	31	Female	/	/
16	Health control	28	Female	/	/
17	Health control	35	Female	/	/
18	Health control	29	Female	/	/
19	Health control	32	Female	/	/
20	Health control	25	Female	/	/
21	Health control	32	Male	/	/
22	Health control	66	Female	/	/
23	Health control	20	Female	/	/
24	Health control	68	Female	/	/
25	Health control	35	Female	/	/
26	Health control	50	Male	/	/
27	Health control	40	Male	/	/
28	Health control	49	Female	/	/
29	Health control	60	Female	/	/
30	Health control	29	Male	/	/
31	Health control	37	Female	/	/
32	Health control	52	Male	/	/