### Supplementary Table 1. Item analysis of severity, susceptibility, response efficacy, self-efficacy, benefits, barriers, personal behavior, and community behavior for women's environmental health (N=210)

| Scales        | Subscales                  | Item no. | Mean | SD   | Item-total γ | Factor-scale γ | Cronbach’s α (95% CI) | Mean (SD) |
|---------------|----------------------------|----------|------|------|--------------|-----------------|-------------------|-----------|
| **Severity**  | Chemicals                  | 12       | 3.62 | 0.92 | 0.74         | 0.88            | 0.84              | 37.98 (6.66) |
|               |                            | 9        | 3.39 | 0.96 | 0.72         |                 |                   |            |
|               |                            | 10       | 3.63 | 0.97 | 0.67         |                 |                   |            |
|               |                            | 11       | 3.38 | 0.91 | 0.64         |                 |                   |            |
|               | Electromagnetic waves      | 8        | 4.00 | 0.79 | 0.71         | 0.79            | 0.74              |            |
|               |                            | 7        | 3.74 | 0.82 | 0.68         |                 |                   |            |
|               |                            | 23       | 4.54 | 0.61 | 0.62         |                 |                   |            |
|               | Harmful food               | 18       | 3.78 | 0.98 | 0.61         | 0.76            | 0.7              |            |
|               |                            | 19       | 3.88 | 0.9  | 0.6           |                 |                   |            |
|               |                            | 22       | 4.03 | 0.77 | 0.58         |                 |                   |            |
| **Susceptibility** | Reproductive health problems | 3        | 4.35 | 0.61 | 0.85         | 0.95            | 0.94 (0.92 (90–94)) | 47.45 (5.56) |
|               |                            | 2        | 4.36 | 0.63 | 0.82         |                 |                   |            |
|               |                            | 4        | 4.35 | 0.61 | 0.82         |                 |                   |            |
|               |                            | 1        | 4.3  | 0.64 | 0.8          |                 |                   |            |
|               |                            | 6        | 4.32 | 0.67 | 0.78         |                 |                   |            |
|               |                            | 7        | 4.27 | 0.64 | 0.76         |                 |                   |            |
|               |                            | 8        | 4.28 | 0.69 | 0.75         |                 |                   |            |
|               | General health problems    | 9        | 4.5  | 0.63 | 0.75         | 0.86            | 0.78              |            |
|               |                            | 10       | 4.47 | 0.63 | 0.72         |                 |                   |            |
|               |                            | 12       | 4.36 | 0.7  | 0.56         |                 |                   |            |
|               |                            | 11       | 3.9  | 0.95 | 0.71         |                 |                   |            |
| **Response efficacy** | Avoid toxicant | 1        | 4.01 | 0.76 | 0.72         | 0.97            | 0.87 (0.88 (86–91)) | 41.98 (5.50) |
|               |                            | 12       | 3.89 | 0.93 | 0.74         |                 |                   |            |
|               |                            | 6        | 4.44 | 0.72 | 0.68         |                 |                   |            |
|               |                            | 7        | 4.16 | 0.77 | 0.67         |                 |                   |            |
|               |                            | 8        | 3.72 | 0.92 | 0.66         |                 |                   |            |
|               |                            | 11       | 4.14 | 0.8  | 0.65         |                 |                   |            |
|               |                            | 5        | 4.36 | 0.78 | 0.61         |                 |                   |            |
|               | Pursuit of health          | 2        | 4.48 | 0.67 | 0.72         | 0.86            | 0.76              |            |
|               |                            | 3        | 4.32 | 0.73 | 0.73         |                 |                   |            |
|               |                            | 4        | 4.45 | 0.7  | 0.5          |                 |                   |            |
| **Self-efficacy** | Preventive efficacy | 9        | 2.28 | 1.1  | 0.69         | 0.84            | 0.88 (0.9 (88–92)) | 46.81 (8.81) |
|               |                            | 6        | 3.17 | 0.93 | 0.67         |                 |                   |            |
|               |                            | 7        | 2.82 | 1    | 0.58         |                 |                   |            |
|               |                            | 8        | 3.2  | 0.96 | 0.57         |                 |                   |            |
|               |                            | 5        | 3.4  | 0.92 | 0.47         |                 |                   |            |
|               | Judgement efficacy         | 10       | 2.94 | 1.1  | 0.72         | 0.86            | 0.86              |            |
|               |                            | 11       | 3.35 | 1.1  | 0.72         |                 |                   |            |
|               |                            | 14       | 2.75 | 1.11 | 0.71         |                 |                   |            |
|               |                            | 12       | 3.6  | 0.86 | 0.71         |                 |                   |            |
|               |                            | 13       | 3.51 | 0.96 | 0.6          |                 |                   |            |
|               | Control efficacy           | 3        | 3.69 | 0.79 | 0.69         | 0.73            | 0.8               |            |
|               |                            | 2        | 3.7  | 0.86 | 0.68         |                 |                   |            |
|               |                            | 1        | 3.93 | 0.82 | 0.64         |                 |                   |            |
|               |                            | 4        | 3.97 | 0.71 | 0.48         |                 |                   |            |
| **Benefits**  | Psychological gainbenefits | 10       | 3.94 | 0.84 | 0.8          | 0.82            | 0.91 (0.91 (89–93)) | 30.49 (5.35) |
|               |                            | 9        | 3.95 | 0.84 | 0.79         |                 |                   |            |
|               |                            | 8        | 3.92 | 0.87 | 0.77         |                 |                   |            |
|               |                            | 7        | 3.8  | 0.9  | 0.73         |                 |                   |            |
|               |                            | 6        | 4    | 0.75 | 0.65         |                 |                   |            |

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### Supplementary Table 1. Continued

| Scales                  | Subscales                  | Item no. | Mean | SD  | Item-total γ | Factor-scale γ | Cronbach's α | Cronbach's α (95% CI) | Mean (SD) |
|-------------------------|----------------------------|----------|------|-----|--------------|----------------|--------------|------------------------|------------|
|                         | Physical gainbenefits      | 5        | 3.74 | 0.91| 0.72         | 0.92           | 0.85         |                        |            |
|                         |                            | 3        | 3.4  | 0.99| 0.63         |                |              |                        |            |
|                         |                            | 4        | 3.74 | 0.89| 0.47         |                |              |                        |            |
|                         | Barriers                   | 17       | 3.35 | 0.96| 0.7          | 0.87           | 0.83         | 0.85                   | 33.42 (6.10) |
|                         |                            | 12       | 3.07 | 0.93| 0.69         |                |              |                        |            |
|                         |                            | 16       | 3.2  | 0.99| 0.61         |                |              |                        |            |
|                         |                            | 8        | 3.17 | 0.98| 0.5          |                |              |                        |            |
|                         |                            | 18       | 3.1  | 1   | 0.4          |                |              |                        |            |
|                         | Burden                     | 13       | 3.49 | 0.89| 0.68         | 0.84           | 0.81         |                        |            |
|                         |                            | 5        | 3.49 | 0.95| 0.67         |                |              |                        |            |
|                         |                            | 6        | 3.54 | 0.89| 0.64         |                |              |                        |            |
|                         |                            | 4        | 3.71 | 0.87| 0.6          |                |              |                        |            |
|                         |                            | 3        | 3.4  | 1   | 0.57         |                |              |                        |            |
|                         | Personal health behavior   | 3        | 3.08 | 0.99| 0.76         | 0.87           | 0.9          | 0.9                    | 55.11 (9.74) |
|                         |                            | 4        | 3.24 | 1.1 | 0.74         |                |              |                        |            |
|                         |                            | 5        | 3.12 | 1.1 | 0.69         |                |              |                        |            |
|                         |                            | 1        | 3.14 | 0.95| 0.69         |                |              |                        |            |
|                         |                            | 2        | 3.2  | 0.95| 0.68         |                |              |                        |            |
|                         |                            | 7        | 2.59 | 1.14| 0.67         |                |              |                        |            |
|                         |                            | 6        | 3.56 | 1.24| 0.64         |                |              |                        |            |
|                         | Personal goods             | 15       | 3.23 | 1.15| 0.63         | 0.77           | 0.84         |                        |            |
|                         |                            | 13       | 3.16 | 1.03| 0.65         |                |              |                        |            |
|                         |                            | 14       | 3.14 | 1.22| 0.64         |                |              |                        |            |
|                         |                            | 12       | 2.96 | 1.12| 0.59         |                |              |                        |            |
|                         | Food                       | 10       | 2.7  | 1.09| 0.67         | 0.82           | 0.82         |                        |            |
|                         |                            | 9        | 3.32 | 1.03| 0.66         |                |              |                        |            |
|                         |                            | 11       | 3.79 | 0.96| 0.65         |                |              |                        |            |
|                         | Dust                       | 18       | 3.99 | 1   | 0.55         | 0.61           | 0.81         |                        |            |
|                         |                            | 17       | 4.18 | 1.07| 0.52         |                |              |                        |            |
|                         |                            | 16       | 3.56 | 1.12| 0.48         |                |              |                        |            |
|                         | Community health behavior  | 1        | 3.33 | 0.97| 0.73         | 0.85           | 0.89         | 0.91                   | 55.10 (9.16) |
|                         |                            | 2        | 3.36 | 0.91| 0.76         |                |              |                        |            |
|                         |                            | 3        | 3.2  | 1   | 0.64         |                |              |                        |            |
|                         |                            | 4        | 3.44 | 0.96| 0.77         |                |              |                        |            |
|                         |                            | 5        | 3.2  | 0.93| 0.64         |                |              |                        |            |
|                         | Involvement                | 16       | 3.25 | 1.03| 0.71         | 0.84           | 0.83         |                        |            |
|                         |                            | 13       | 3.41 | 0.94| 0.68         |                |              |                        |            |
|                         |                            | 12       | 3.5  | 1.12| 0.64         |                |              |                        |            |
|                         |                            | 18       | 3.02 | 1.08| 0.62         |                |              |                        |            |
|                         |                            | 12       | 2.92 | 1.1 | 0.59         |                |              |                        |            |
|                         | Recycling                  | 10       | 4.14 | 1.02| 0.57         | 0.68           | 0.77         |                        |            |
|                         |                            | 11       | 3.42 | 1.15| 0.56         |                |              |                        |            |
|                         |                            | 9        | 4.3  | 0.79| 0.55         |                |              |                        |            |
|                         | Reuse                      | 6        | 3.4  | 0.86| 0.68         | 0.77           | 0.77         |                        |            |
|                         |                            | 8        | 3.54 | 0.84| 0.67         |                |              |                        |            |
|                         |                            | 7        | 3.66 | 0.85| 0.56         |                |              |                        |            |

CI: Confidence interval.