Physicochemical properties of air discharge-generated manganese oxide nanoparticles: Comparison to welding fumes

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Supplementary Information: Supplemental Figure 1 – 3.
Supplementary Information

Suppl. Figure 1. Survey XPS spectra of fresh fume Mn (A), agglomerated Mn nanoparticles (B) and welding fume sample (C).
Suppl. Figure 2. High resolution XPS spectrum of N(1s) region of the welding fume sample.

<table>
<thead>
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<th>Name</th>
<th>Pos.</th>
<th>FWHM</th>
<th>At%</th>
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<tbody>
<tr>
<td>N 1s</td>
<td>401.93</td>
<td>1.60</td>
<td>49.56</td>
</tr>
<tr>
<td>N 1s</td>
<td>399.93</td>
<td>1.60</td>
<td>50.44</td>
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Suppl. Figure 3. Characterization and dissolution studies of Mn₃O₄ nanocrystals. SEM images (A), XRD diffractograms (B) and dissolution studies (C) of single phase Mn₃O₄ (left) and mixed phase Mn oxide (right) nanomaterials used as standards. Simulated biological fluids used in dissolution studies: Gamble’s (blue) and ALF (brown), and in PBS (pH 7.4) (green) and pH 4.5 (red) buffers.