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Early evaluation of potential environmental impacts of carbon nanotube synthesis by chemical vapor deposition

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| 96 | Our choice from the recent literature. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 792-793   | 28.7 |           |
| 95 | Measuring the lengthening kinetics of aligned nanostructures by spatiotemporal correlation of height and orientation. <i>Nanoscale</i> , <b>2010</b> , 2, 896-900                          | 7.7  | 35        |
| 94 | Properties, synthesis, and growth mechanisms of carbon nanotubes with special focus on thermal chemical vapor deposition. <i>Nanoscale</i> , <b>2010</b> , 2, 1306-23                      | 7.7  | 209       |
| 93 | Multiple alkynes react with ethylene to enhance carbon nanotube synthesis, suggesting a polymerization-like formation mechanism. <i>ACS Nano</i> , <b>2010</b> , 4, 7185-92                | 16.7 | 73        |
| 92 | Interdependency of Gas Phase Intermediates and Chemical Vapor Deposition Growth of Single Wall Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6035-6043               | 9.6  | 23        |
| 91 | Ethanol-Promoted High-Yield Growth of Few-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6389-6395   | 3.8  | 52        |
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| 89 | Material and energy intensity of fullerene production. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 2353-9  | 10.3 | 211       |
| 88 | Adsorption and desorption of phenanthrene on carbon nanotubes in simulated gastrointestinal fluids. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 6018-24              | 10.3 | 102       |
| 87 | Supergrowth of nitrogen-doped single-walled carbon nanotube arrays: active species, dopant characterization, and doped/undoped heterojunctions. <i>ACS Nano</i> , <b>2011</b> , 5, 6925-34 | 16.7 | 35        |
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| 83 | Microwave extraction of graphene from carbon fibers. <i>Carbon</i> , <b>2011</b> , 49, 222-226   | 10.4 | 30        |
| 82 | Sub-millimeter-long carbon nanotubes repeatedly grown on and separated from ceramic beads in a single fluidized bed reactor. <i>Carbon</i> , <b>2011</b> , 49, 1972-1979                   | 10.4 | 57        |
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| 79 | Layer-by-layer growth of graphene layers on graphene substrates by chemical vapor deposition. <i>Thin Solid Films</i> , <b>2011</b> , 519, 6447-6452   | 2.2  | 42  |
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| 77 | Pulmonary surfactant suppressed phenanthrene adsorption on carbon nanotubes through solubilization and competition as examined by passive dosing technique. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 5369-77      | 10.3 | 48  |
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| 64 | Current understanding of the growth of carbon nanotubes in catalytic chemical vapour deposition. <i>Carbon</i> , <b>2013</b> , 58, 2-39  | 10.4 | 361 |
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