**Table S1.** Concentrations of pollutants in sediments of the Lianjiang River in Guiyu

|  |  |  |  |
| --- | --- | --- | --- |
| Pollutants | Concentration | | |
| Heavy metals | mg/kg | | |
| Cd | 0.9a | 0.556 ± 0.089b | 14.081 ± 1.22c |
| Cu | 528a | 620.9 ± 478.9b | 2977.432 ± 358.63c |
| Ni | 120a | 69.7 ± 68.7b | n.a.c |
| Pb | 94.3a | 93.0 ± 52.4b | 385.150 ± 43.12c |
| Zn | 249a | n.a.b | 744.691 ± 36.54c |
| Cr | 29.2a | n.a.b | 40.931 ± 7.93c |
| Hg | n.a.a | 0.493 ± 0.197b | n.a.c |
| As | n.a.a | 11.3 ± 3.90b | n.a.c |
| PAHs | μg/kg | | |
| Naphthalene | 25.8a | 159d | 37.2±12.9e |
| Acenaphthylene | n.d.a | 36d | n.d.e |
| Acenaphthene | 6.4a | 25d | n.d.e |
| Fluorene | 16.6a | 104d | n.d.e |
| Phenanthrene | 67.3a | 540d | 11.5±3.4e |
| Anthracene | 5.9a | 114d | 0.1±0.2e |
| Fluoranthene | 48.4a | 299d | 11±3.2e |
| Pyrene | 43a | 303d | 15.7±5.8e |
| Benzo(a)anthracene | 23.6a | 158d | 3.8±2e |
| Chrysene | 46.1a | 302d | 18.8±3.8e |
| Benzo(b+k) fluoranthene | n.d.a | 302d | 35.3±9.6e |
| Benzo(a)pyrene | 17.5a | 105d | n.d.e |
| Dibenz(a,h)anthracene | n.d.a | 212d | n.d.e |
| Indeno(1,2,3-c,d)pyrene | 24.1a | 159d | 9.2±5e |
| Benzo(g,h,i)perylene | 26.7a | 215d | n.d.e |
| Total 16 PAHs | 352a | 3034d | 143±33.2e |
| PBDEs | μg/kg | | |
| Total mono-BDEs | 1.01a | 3f | n.a.c |
| Total di-BDEs | 2.73a | 3.74f | n.a.c |
| Total tri-BDEs | 2.51a | 11.8f | 21.965c |
| Total tetra-BDEs | 8.41a | 84.6f | 207.161c |
| Total penta-BDEs | 8.52a | 60f | 253.783c |
| Total hexa-BDEs | 5.27a | 23.3f | 114.026c |
| Total hepta-BDEs | 3.81a | 27.8f | 478.426c |
| Total octa-BDEs | n.a.a | n.a.f | n.a.c |
| Total nona-BDEs | n.a.a | n.a.f | 939.755c |
| Deca-BDE (BDE-209) | n.a.a | 8840f | 5319.057c |
| Total PBDEs | 32.3 (Total mono-hepta BDEs) a | 9054f | 7349.32c |
| PCBs | μg/kg | | |
| Total mono-PCBs | 2.39a | n.d.a |  |
| Total di-PCBs | 122a | n.d.a |  |
| Total tri-PCBs | 294a | n.d.a |  |
| Total tetra-PCBs | 258a | 5.11a |  |
| Total penta-PCBs | 43.9a | 4.92a |  |
| Total hexa-PCBs | 15.9a | 4.04a |  |
| Total hepta-PCBs | 5.2a | 0.32a |  |
| Total octa-PCBs | n.d.a | n.d.a |  |
| Total nona-PCBs | n.d.a | n.d.a |  |
| Deca-PCB (PCB-209) | n.d.a | n.d.a |  |
| Total PCBs | 743a | 14.1a |  |

PAHs, polycyclic aromatic hydrocarbons; PBDEs, polybrominated diphenyl ethers; PCB, polychlorinated biphenyls; n.a., not applicable; n.d., not detectable.

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