



Fig. S1 High resolution XPS patterns: C1s (a) NSHPC-700, (b) NSHPC-800, (c) NSHPC-900; O1s (d) NSHPC-700, (d) NSHPC-800, (f) NSHPC-900

Table S1 Element composition (mol.%) determined by XPS measurement

| Sample | N | O | S |
|-----------|------|-----|-----|
| NSHPC-600 | 2.6 | 6.7 | 0.4 |
| NSHPC-700 | 2.3 | 5.9 | 0.6 |
| NSHPC-800 | 0.98 | 5.0 | 0.4 |
| NSHPC-900 | 0.34 | 4.1 | 0.3 |