Supplementary Table S1. Powder X-ray data (*d* in Å) for oldsite.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *I*obs | *d*obs | *d*calc | *I*calc | *h k l* |  | *I*obs | *d*obs | *d*calc | *I*calc | *h k l* |  | *I*obs | *d*obs | *d*calc | *I*calc | *h k l* |
| **59** | **8.29** | 8.2760 | 43 | 0 1 0 |  | 33 | 2.477 | 2.4802 | 11 | 4 2 1 |  | 20 | 1.7026 | 1.7069 | 5 | 6 0 4 |
| 42 | 6.69 | 6.6642 | 26 | 0 1 1 |  | 2.4764 | 7 | 0 3 2 |  | 1.6995 | 10 | 6 2 3 |
| **82** | **6.47** | 6.4465 | 100 | 2 0 0 |  | 2.4740 | 12 | 2 3 1 |  | 1.6952 | 3 | 6 3 0 |
| 14 | 5.64 | 5.6195 | 14 | 0 0 2 |  | 2.4594 | 6 | 2 1 4 |  | 33 | 1.6818 | 1.6841 | 7 | 4 2 5 |
| **62** | **5.10** | 5.0857 | 62 | 2 1 0 |  | 14 | 2.339 | 2.3434 | 9 | 4 1 3 |  | 1.6822 | 9 | 2 3 5 |
| **100** | **4.65** | 4.6490 | 45 | 0 1 2 |  | 15 | 2.222 | 2.2214 | 8 | 0 3 3 |  | 1.6763 | 5 | 6 3 1 |
| 4.6334 | 43 | 2 1 1 |  | **56** | **2.106** | 2.1180 | 8 | 4 0 4 |  | 1.6717 | 3 | 6 1 4 |
|  |  | 4.3734 | 4 | 1 1 2 |  | 2.1040 | 16 | 4 2 3 |  | 5 | 1.6624 | 1.6632 | 7 | 4 4 2 |
| 47 | 4.25 | 4.2360 | 29 | 2 0 2 |  | 2.1002 | 10 | 2 3 3 |  | 19 | 1.6170 | 1.6195 | 7 | 4 0 6 |
| 5 | 4.16 | 4.1380 | 6 | 0 2 0 |  | 2.0799 | 8 | 6 1 0 |  | 1.6130 | 7 | 2 4 4 |
|  |  | 4.0142 | 4 | 3 0 1 |  | 59 | 2.059 | 2.0690 | 4 | 0 4 0 |  | 1.6116 | 4 | 8 0 0 |
| 47 | 3.889 | 3.8832 | 41 | 0 2 1 |  | 2.0603 | 15 | 4 3 1 |  | 9 | 1.5874 | 1.6032 | 3 | 2 5 0 |
| 28 | 3.777 | 3.7708 | 29 | 2 1 2 |  | 2.0559 | 7 | 2 1 5 |  | 1.5878 | 3 | 0 5 2 |
|  |  | 3.5975 | 3 | 1 0 3 |  | 2.0519 | 7 | 4 1 4 |  | 9 | 1.5424 | 1.5492 | 3 | 8 0 2 |
| 47 | 3.421 | 3.4129 | 36 | 0 1 3 |  | 2.0451 | 10 | 6 1 1 |  | 1.5417 | 5 | 2 5 2 |
| **55** | **3.332** | 3.3321 | 6 | 0 2 2 |  | 4 | 2.015 | 2.0071 | 8 | 6 0 2 |  | 13 | 1.5312 | 1.5329 | 7 | 4 3 5 |
| 3.3263 | 51 | 2 2 1 |  | 38 | 1.9710 | 1.9752 | 9 | 0 2 5 |  | 1.5311 | 3 | 2 1 7 |
| 35 | 3.231 | 3.2233 | 35 | 4 0 0 |  | 1.9685 | 3 | 0 3 4 |  | 1.5227 | 4 | 8 1 2 |
| **63** | **3.020** | 3.0163 | 56 | 2 1 3 |  | 1.9637 | 5 | 4 3 2 |  | 14 | 1.4879 | 1.4885 | 5 | 8 2 1 |
|  |  | 3.0035 | 6 | 4 1 0 |  | 1.9506 | 6 | 6 1 2 |  | 1.4800 | 3 | 4 4 4 |
| 22 | 2.962 | 2.9600 | 17 | 2 2 2 |  | 5 | 1.9432 | 1.9416 | 7 | 0 4 2 |  | 9 | 1.4581 | 1.4581 | 5 | 2 2 7 |
| 13 | 2.905 | 2.9017 | 9 | 4 1 1 |  | 38 | 1.8840 | 1.8885 | 11 | 2 2 5 |  | 1.4573 | 3 | 8 1 3 |
| 13 | 2.811 | 2.8098 | 8 | 0 0 4 |  | 1.8827 | 3 | 2 3 4 |  | 1.4542 | 4 | 6 2 5 |
| 2.7960 | 5 | 4 0 2 |  | 1.8802 | 11 | 6 2 1 |  | 6 | 1.4427 | 1.4406 | 8 | 6 4 2 |
| 13 | 2.780 | 2.7772 | 16 | 0 2 3 |  | 1.8732 | 8 | 0 0 6 |  |  |  | 1.4243 | 3 | 4 5 2 |
| **51** | **2.670** | 2.6791 | 20 | 0 3 1 |  | 21 | 1.8610 | 1.8591 | 23 | 2 4 2 |  |  |  | 1.4160 | 3 | 4 1 7 |
| 2.6606 | 11 | 0 1 4 |  | 17 | 1.8224 | 1.8291 | 4 | 4 3 3 |  | 12 | 1.3923 | 1.3980 | 3 | 8 0 4 |
| 2.6489 | 12 | 4 1 2 |  | 1.8184 | 7 | 6 1 3 |  | 1.3939 | 5 | 8 2 3 |
| **51** | **2.557** | 2.5757 | 9 | 2 0 4 |  | 9 | 1.8026 | 1.7988 | 6 | 2 0 6 |  | 1.3919 | 4 | 6 1 6 |
| 2.5506 | 17 | 2 2 3 |  | 5 | 1.7604 | 1.7577 | 7 | 2 1 6 |  | 32 | 1.3837 | 1.3810 | 5 | 8 3 1 |
| 2.5362 | 8 | 2 3 0 |  | 13 | 1.7442 | 1.7426 | 7 | 0 3 5 |  | 1.3785 | 3 | 8 1 4 |
|  |  |  |  |  |  | 1.7412 | 3 | 4 4 0 |  | 7 | 1.3556 | 1.3576 | 4 | 4 2 7 |
|  |  |  |  |  |  |  |  |  |  |  |  | 1.3535 | 4 | 6 3 5 |