PCCP



CORRECTION

View Article Online



Cite this: Phys. Chem. Chem. Phys., 2023, 25, 3545

Correction: Depth-resolved oxidational studies of Be/Al periodic multilayers investigated by X-ray photoelectron spectroscopy

Niranjan Kumar, *a Roman S. Pleshkov, B. S. Prathibha, Vladimir N. Polkovnikov, a Nikolay I. Chkhalo, a Vladimir A. Golyashov^{cd} and Oleg E. Tereshchenko^{cd}

DOI: 10.1039/d3cp90011h

rsc.li/pccp

Correction for 'Depth-resolved oxidational studies of Be/Al periodic multilayers investigated by X-ray photoelectron spectroscopy' by Niranjan Kumar et al., Phys. Chem. Chem. Phys., 2023, 25, 1205-1213, https://doi.org/10.1039/D2CP04778K.

The author would like to correct some typographical errors throughout the manuscript:

- (1) In the abstract, the last sentence "The investigation showed that the subsurface and surface regions were dominated by metal-hydroxide (BeOH/AlOH) and metal-oxide (BeOx/AlOx)..." should be amended to "The investigation showed that the subsurface and surface regions were dominated by metal-oxide (BeO_x/AlO_x) and metal-hydroxide (BeOH/AlOH) bonding, respectively, analyzed by the depth-resolved chemical shifts."
- (2) The caption for Fig. 8 "Shift of chemical components: curve 1 Al-O/Be-O, and curve 2 Al-OH/Be-OH..." should be amended to "Shift of chemical components: curve 1 - Al-OH/Be-OH, and curve 2 - Al-O/Be-O of as-deposited (0) and Ar⁺ ion sputtered samples with various time durations."
- (3) On page 5, right column, fifth sentence of second paragraph "The results directly indicate that the subsurface is dominated by metal-OH bonding and the metal-O bonding is dominated..." should be amended to "The results directly indicate that the subsurface is dominated by metal-O bonding, and the metal-OH bonding dominates near the surface regions."
 - (4) The correct Fig. 9 and the corresponding figure caption are shown below:
- (5) In the Conclusions, the last two sentences "The results indicated that the surface regions of the samples were dominated by metal-O bonding (AlO_x and BeO_y). However, the oxidational substance near the subsurface region was dominated by metal-OH bonding (AlOH and BeOH)." should be amended to "The results indicated that the surface regions of the samples were dominated by metal-OH bonding (AlOH and BeOH). However, oxidation near the subsurface region was dominated by metal-O bonding (AlO and BeO)."

a Institute for Physics of Microstructures, RAS, Afonino, Nizhny Novgorod 603087, Russia. E-mail: kumar@ipmras.ru; Fax: +7 (831) 417 94 64; Tel: +7 (831) 417 94 65

^b BNM Institute of Technology, Bangalore, Karnataka 560070, India

^c Institute of Semiconductor Physics, SB RAS, Novosibirsk 630090, Russia

^d Synchrotron Radiation Facility SKIF, Boreskov Institute of Catalysis, SB RAS, Kol'tsovo 630559, Russia

Correction

X 1.4 sample 1 \boxtimes sample 2 1.2 sample 3 \boxtimes (Metal-OH / Metal-O) 0 0 0 9 8 0 × \boxtimes

0

10

0.4

0.2

Fig. 9 Intensity ratio of metal-OH/metal-O bonding of (0) as-deposited samples, and Ar⁺ ion sputtered samples 1, 2 and 3 with various sputtering time durations.

20

30

Ar+ ion sputtered (min.)

50

40

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.