

Accepted Manuscript

The pH dependent surface charging and points of zero charge. VII. Update

Marek Kosmulski

PII: S0001-8686(17)30440-2
DOI: doi:[10.1016/j.cis.2017.10.005](https://doi.org/10.1016/j.cis.2017.10.005)
Reference: CIS 1838

To appear in: *Advances in Colloid and Interface Science*



Please cite this article as: Kosmulski Marek, The pH dependent surface charging and points of zero charge. VII. Update, *Advances in Colloid and Interface Science* (2017), doi:[10.1016/j.cis.2017.10.005](https://doi.org/10.1016/j.cis.2017.10.005)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

The pH dependent surface charging and points of zero charge. VII. Update

Marek Kosmulski

Lublin University of Technology, Nadbystrzycka 38, PL-20618 Lublin, Poland.

m.kosmulski@pollub.pl

Abstract

The pristine points of zero charge (PZC) and isoelectric points (IEP) of metal oxides and IEP of other materials from the recent literature, and a few older results (overlooked in previous searches) are summarized. This study is an update of the previous compilations by the same author [Surface Charging and Points of Zero Charge, CRC, Boca Raton, 2009; J. Colloid Interface Sci. 337 (2009) 439; 353 (2011) 1; 426 (2014) 209]. The field has been very active, but most PZC and IEP are reported for materials, which are very well-documented already (silica, alumina, titania, iron oxides). IEP of (nominally) Gd_2O_3 , $NaTaO_3$, and $SrTiO_3$ have been reported in the recent literature. Their IEP were not reported in older studies.

Key words: point of zero charge, isoelectric point, surface charge density, zeta potential, electrokinetic potential

Download English Version:

<https://daneshyari.com/en/article/6976622>

Download Persian Version:

<https://daneshyari.com/article/6976622>

[Daneshyari.com](https://daneshyari.com)