ADDITIONS AND CORRECTIONS

Nathan W. Ockwig and Tina M. Nenoff*. Membranes for Hydrogen Separation (*Chem. Rev.* 2007, *107*, 4078.). Published on the Web October 10, 2007

This article was found to contain text that already appeared in *Ind. Eng. Chem. Res.* **2006**, *45*, 5657 and *MRS Bull.* **2006**, *31*, 750 without proper acknowledgment and citation. We jointly apologize to the articles' authors, Drs. Phair and Donelson, as well as Drs. Hägg and Quinn, respectively, for these errors.

In addition, we have taken this opportunity to reinforce our acknowledgment of the authors of various references throughout the text. At the end of this correction is a listing by section of references that we would like to reinforce in various sections of the text.

The following two table titles were inadvertently excluded from the published manuscript:

 Table 7. Hydrogen Separation Ability of First-Generation,

 Commercial Membranes for Gas Separations.⁴³⁴

Table 8. Hydrogen Purity Required in Industry^{380,434}

An updated and corrected version of Table 14 is also included.

Table 14.	Permselective F	roperties of	CO ₂ -Selective	Polymeric	Facilitated	Transport	Membranes ⁴⁹⁷
1 abic 14.	I CI IIISCICCII VC I	ropernes or	CO2-Beleville	1 Orymeric	racintateu	ransport	within and s

membrane	other gas	CO ₂ (kPa)	CO ₂ permeance ^a	CO ₂ selectivity	ref
sulfonated polystryene-EDAH	N_2	2.93	4.13×10^{-7}	600	449, 4 50
Nafion-EDAH	CH_4	1.60	7.99×10^{-8}	550	452
Nafion-EDAH	H_2	101	3.63×10^{-7}	6.8	453
Nafion-EDAH	H_2		1.88×10^{-7}	55	454
sulfonated polystryene-divinyl benzene-EDAH	N_2	4.07	4.97×10^{-9}	524	456
EDAH-alginate	N_2	1	1.05×10^{-8b}	50	457
EDAH-polyacrylate	N_2	4.76	7.50×10^{-7}	4700	458, 459
poly(acrylate-EDAH)/poly(vinyl alcohol)	N_2	6.18	5.25×10^{-7}	1900	460
poly(vinyl alcohol)-amino acid salts	H_2	76.0	6.38×10^{-8}	30	461
poly(ethylenimine)-lithium glycinate	H_2	76.0	3.18×10^{-7}	75	462
poly(vinyl alcohol)-tetramethylammonium fluoride	H_2	76.0	5.33×10^{-8}	19	463
poly(vinyl alcohol)-cesium fluoride	H_2	45.6	5.96×10^{-8}	60	464
cesium polyacrylate-cesium fluoride	H_2	44.9	6.09×10^{-8}	61	464
poly(diallydimethylammonium fluoride)	H_2	40.0	1.37×10^{-8}	81	465
poly(vinylbenzyltrimethylammonium fluoride)	H_2	42.1	4.52×10^{-8}	87	466
poly(vinylbenzyltrimethylammonium fluoride)	H_2	114.5	2.22×10^{-8}	207	467
poly(vinylbenzyltrimethylammonium fluoride)-cesium fluoride	H_2	40.8	1.93×10^{-7}	127	468
hydrolyzed polyvinylpyrrolidone	N_2	1.62	1.27×10^{-6}	48	497
poly(vinylamine)-ammonium fluoride	CH_4	200.0	3.89×10^{-8}	1143	493
poly(vinylamine)-cesium fluoride	H_2	42.9	5.03×10^{-8}	120	494

^{*a*} Permeance in units of $m^3/(m^2 \cdot s \cdot kPa)$; literature P_0 values converted to permeance using reported membrane thicknesses. ^{*b*} Membrane thicknesse not reported, assumed a value of 50 μ m.

Section 1

(7) Adhikari, S.; Fernando, S. *Ind. Eng. Chem. Res.* **2006**, *45*, 875. Sections **1**, **6.1–6.3**

(497) Hägg, M. B.; Quinn, R. MRS Bull. 2006, 31, 750.

Sections 2-2.6

- (46) Phair, J. W.; Donelson, R. *Ind. Eng. Chem. Res.* **2006**, *45*, 5657. Sections 3.1, 3.1.2, 3.5
- (190) Prabhu, A. K.; Oyama, S. T. J. Membr. Sci. 2000, 176, 233. Section 3.1.2
- (199) Nomura, M.; Ono, K.; Gopalakrishnan, S.; Sugawara, T.; Nakao, S.-I. J. Membr. Sci. 2005, 251, 151.
- Sections 3.2-3.6
- (248) Verweij, H.; Lin, Y. S.; Dong, J. H. *MRS Bull.* **2006**, *31*, 756. Section **3.5.1**
- (244) (a) Kanezashi, M.; Fujita, T.; Asaeda, M. Sep. Sci. Technol. 2005, 40, 225. (b) Kanezashi, M.; Asaeda, M. J. Membr. Sci. 2006, 271, 86.
- Sections 3.5.1, 3.5.2
- (237) Yoshino, Y.; Suzuki, T.; Nair, B. N.; Taguchi, H.; Itoh, N. J. Membr. Sci. 2005, 267, 8.

Sections 4, 4.3, 4.4

(282) Bowen, T. C.; Noble, R. D.; Falconer, J. L. J. Membr. Science 2004, 245, 1, and references therein.

Section 4.1

(286) Choi, J.; Ghosh, S.; Lai, Z.; Tsapatsis, M. Angew. Chem., Int. Ed. 2006, 45, 1154.

Section 4.2

(185) Dong, J.; Liu, W.; Lin, Y. S. AIChE J. 2000, 46, 1957.

Section 4.5

(307) Hong, M.; Falconer, J. L.; Noble, R. D. Ind. Eng. Chem. Res. 2005, 44, 4035.

Sections 5, 5.1-5.7

(340) Pietrass, T. *MRS Bull.* **2006**, *31*, 765, and references therein. Sections 5.5, 5.6

(324) Ismail, A. F.; David, L. I. B. J. Membr. Sci. 2001, 193, 1.

Sections 6, 6,1-6,3

(434) Perry, J. D.; Nagai, K.; Koros, W. J. MRS Bull. 2006, 31, 745.

CR078108L 10.1021/cr0781081 Published on Web 04/03/2009 Sophie Laurent, Delphine Forge, Marc Port, Alain Roch, Caroline Robic, Luce Vander Elst, and Robert N. Muller*. Magnetic Iron Oxide Nanoparticles: Synthesis, Stabilization, Vectorization, Physicochemical Characterizations, and Biological Applications (*Chem. Rev.* **2008**, *108*, 2064.). Published on the Web June 11, 2008.

The last sentence on page 2079

"These results are interpreted as demonstrating the existence of a part in the core with a size of 4.2 nm, characterized by a perfect crystalline coherency and a more disordered surface layer"

should be replaced by

"These results are interpreted as demonstrating the existence of an imperfect crystalline coherency due to the presence of a three-dimensional lattice distortion."

CR900197G 10.1021/cr900197g Published on Web 06/22/2009

Rakesh Kumar Tekade, Palanirajan Vijayaraj Kumar, and Narendra Kumar Jain*. Dendrimers in Oncology: An Expanding Horizon (*Chem. Rev.* 2009, *109*, 49.). Published on the Web December 19, 2008.

On page 50, lines 11–19 contained an inaccurate sentence, as follows:



Figure 3. Mechanism of drug release following deprotonation from drug encapsulated dendrimers at tumorous site. (a) Protonated dendrimers showing retention of drug due to weak ionic interaction, pH 7.4. (b) Deprotonation of dendrimer at subneutral, pH < 7, followed by drug releasing event at tumorous site.

However it should be noted that the guest molecules were retained within the dendritic branching clefts by weak ionic interactions with interior protonated amide groups. Therefore, the inclusion complexes separated after deprotonation of the amide groups at pH less than 7.⁶⁴ This key principle characterizes the inherent property of dendrimers, which in other ways limit the release of drugs in relatively higher proportion at tumor sites, where pH lower to neutrality exists (Figure 3).

The correct sentence should read as follows:

However, it should be noted that the guest molecules retained within the dendritic branching clefts get separated after the protonation of the dendrimer at pH less than 7.⁶⁴ This effect is probably due to the availability of sufficient open crevices inside protonated dendrimer for the release of drugs. This key principle characterizes the inherent property of dendrimers, which in other ways limit the release of drugs in relatively higher proportion at tumor sites, where pH lower than neutral exists (Figure 3).

CR900113J 10.1021/cr900113j Published on Web 04/23/2009

Ryo Akiyama and Shū Kobayashi*. "Microencapsulated" and Related Catalysts for Organic Chemistry and Organic Synthesis (*Chem. Rev.* **2009**, *109*, .)

During the publication of this manuscript, the Publisher inadvertently published Figure 16 as both Figure 16 and Figure 19. The correct Figures 16 and 19 are shown below. The electronic version of the paper has been updated to reflect the correct figures.



Figure 16. PI-Ru catalyzed oxidation using flow system.



Figure 19. Novel gold(III) polymer-supported catalyst for indole library synthesis.

CR900066N 10.1021/cr900066n Published on Web 03/11/2009