

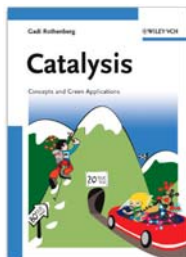
Catalysis: Concepts and Green Applications

Lecture slides for Chapter 4: Heterogeneous catalysis

Most of the graphics here were drawn using PowerPoint and Chemdraw (version Ultra 9.0).

Feel free to modify and/or add your own pyrotechnics.

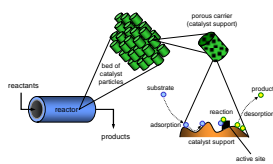
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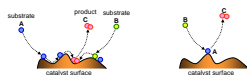
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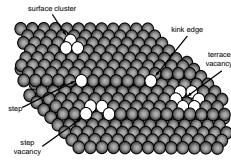
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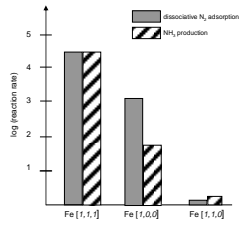
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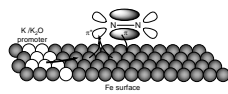
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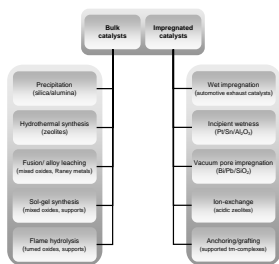
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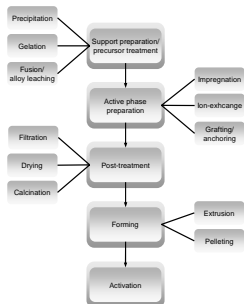
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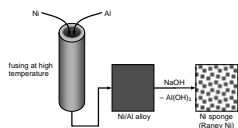
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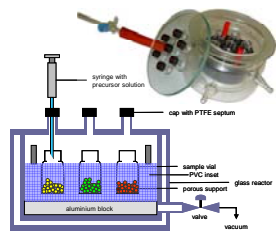
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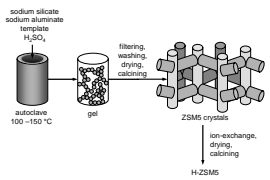
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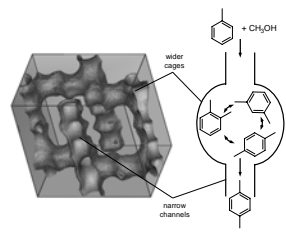
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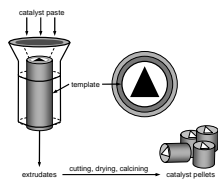
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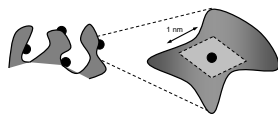
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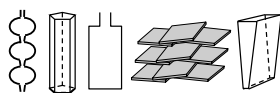
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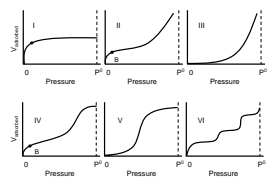
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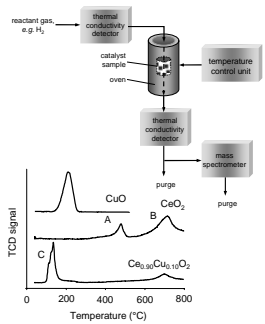
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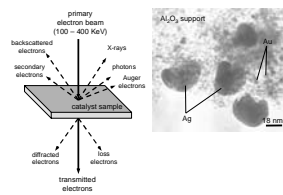
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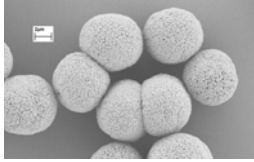
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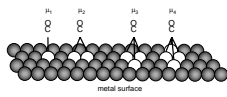
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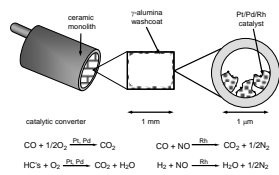
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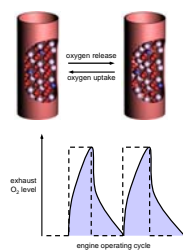
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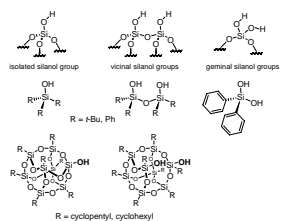
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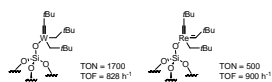
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


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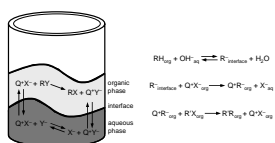
Figure 4.27

	ionic liquid	mp, °C	
	[emim] ⁺ [PF ₆] ⁻	62	
ethylmethylimidazolium (emim)	[emim] ⁺ [ClO ₄] ⁻	7	butylpyridinium (bpy)
	[emim] ⁺ [NO ₃] ⁻	38	
	[emim] ⁺ [PF ₄] ⁻	11	
	[bmim] ⁺ [PF ₆] ⁻	77	
butylmethylimidazolium (bmim)	[bmim] ⁺ [Cl] ⁻	41	butylmethylpyridinium (bimpy)

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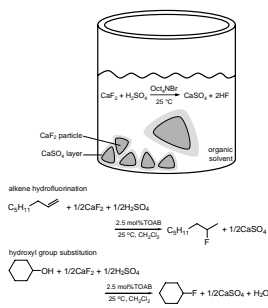
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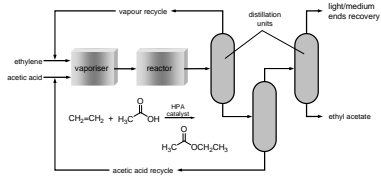
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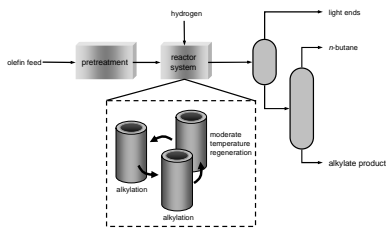
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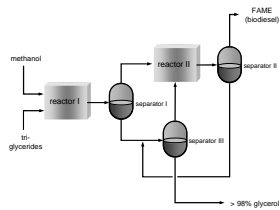
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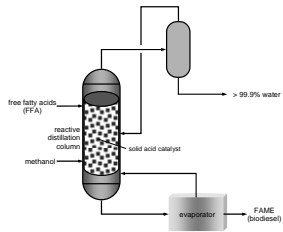
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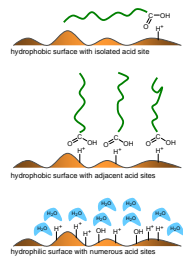
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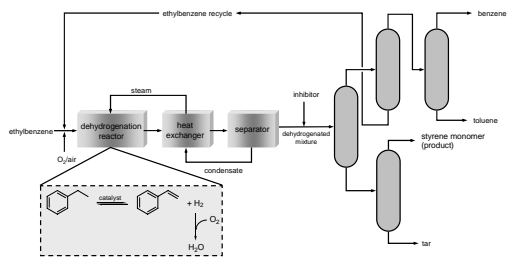
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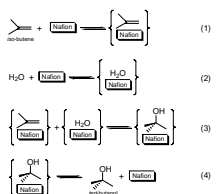
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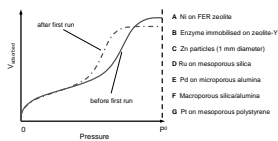
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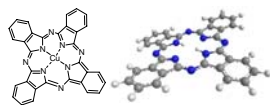
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