



# 研究内容目次 (2001以降)

## ■ 色素増感太陽電池の材料研究とプロセス工学

### ①マイクロ波加熱による酸化チタン膜の低温焼成

S.Uchida et.al., *SOLMATE*. (2004)  
 S.Uchida et.al., *JPPA*. (2004)

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### ②長纖維状酸化チタンの合成と光電極への応用

S.Uchida et.al., *J.Chem.Soc.* (1997)  
 S.Uchida et.al., *Electrochemistry* (2002)

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### ③合成有機色素の開発

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| T.Horiuchi, H.Miura, S.Uchida et.al., <i>Chem. Comm.</i> (2003)         | Cited 188 |
| T.Horiuchi, H.Miura, S.Uchida et.al., <i>JACS</i> (2004)                | Cited 465 |
| L.Schmidt-Mende, S.Uchida, M.Grätzel et.al., <i>Adv. Mater.</i> (2005)  | Cited 216 |
| S.Ito, H.Miura, S.Uchida, M.Grätzel et.al., <i>Adv. Mater.</i> (2006)   | Cited 363 |
| S.Ito, H. Miura, S. Uchida, M.Grätzel et.al., <i>Chem. Comm.</i> (2008) | Cited 185 |
| D.Kuang, S. Uchida, M.Grätzel et.al., <i>Angew. Chem.</i> (2008)        | Cited 110 |
| D.Kuang, S. Uchida, M.Grätzel et.al., <i>ACS Nano</i> (2008)            | Cited 174 |

### ④電解質溶液の固体化研究

B.Ito, S.Uchida, H.Segawa, *Nature Photonics* (2012) *in preparation*