

LIST OF PUBLICATIONS

1. H. Lulf, A. Devaux, **E. A. Prasetyanto** and L. De Cola, in *Organic Nanomaterials*, eds. T. Torres and G. Bottari, Wiley, 2013.
2. N. S. Kehr, **E. A. Prasetyanto**, K. Benson, B. Erguen, A. Galstyan and H.-J. Galla, "Periodic Mesoporous Organosilica-Based Nanocomposite Hydrogels as Three-Dimensional Scaffolds" *Angew. Chem., Int. Ed.*, 2013, **52**, 1156.
3. M. Veiga-Gutierrez, M. Woerdemann, **E. A. Prasetyanto**, C. Denz and L. De Cola, "Optical-Tweezers Assembly-Line for the Construction of Complex Functional Zeolite L Structures" *Adv. Mater. (Weinheim, Ger.)*, 2012, **24**, 5199.
4. K. Benson, **E. A. Prasetyanto**, H.-J. Galla and N. S. Kehr, "Self-assembled monolayers of bifunctional periodic mesoporous organosilicas for cell adhesion and cellular patterning" *Soft Matter*, 2012, **8**, 10845.
5. D.-Y. Ok, N. Jiang, **E. A. Prasetyanto**, H. Jin and S.-E. Park, "Epoxidation of cyclic-olefins over carbon template mesoporous TS-1" *Microporous Mesoporous Mater.*, 2011, **141**, 2.
6. N.-u. H. Khan, M. B. Ansari, **E. A. Prasetyanto**, H. Jin and S.-E. Park, "Chiral enhancement in the confined space of zeolites for the asymmetric synthesis of β -hydroxy nitroalkanes" *Tetrahedron: Asymmetry*, 2011, **22**, 117.
7. N. Jiang, H. Jin, Y.-H. Mo, **E. A. Prasetyanto** and S.-E. Park, "Direct immobilization of ImCl ionic liquid onto the platelet type SBA-15" *Microporous Mesoporous Mater.*, 2011, **141**, 16.
8. **E. A. Prasetyanto**, N.-u. H. Khan, H.-U. Seo and S.-E. Park, "Asymmetric Epoxidation of α,β -Unsaturated Ketones over Heterogenized Chiral Proline Diamide Complex Catalyst in the Solvent-Free Condition" *Top. Catal.*, 2010, **53**, 1381.
9. **E. A. Prasetyanto**, S.-M. Jeong and S.-E. Park, "Asymmetric Catalysis in Confined Space Provided by L-Proline Functionalized Mesoporous Silica with Plugs in the Pore" *Top. Catal.*, 2010, **53**, 192.
10. **E. A. Prasetyanto**, M. B. Ansari, B.-H. Min and S.-E. Park, "Melamine tri-silsesquioxane bridged periodic mesoporous organosilica as an efficient metal-free catalyst for CO₂ activation" *Catal. Today*, 2010, **158**, 252.
11. N.-u. H. Khan, **E. A. Prasetyanto**, Y.-K. Kim, M. B. Ansari and S.-E. Park, "Chiral Cu(II) Complexes as Recyclable Catalysts for Asymmetric Nitroaldol (Henry) Reaction in Ionic Liquids as Greener Reaction Media" *Catal. Lett.*, 2010, **140**, 189.
12. K. M. Jinka, H. C. Bajaj, R. V. Jasra, **E. A. Prasetyanto** and S.-E. Park, "Microwave Synthesized Mesoporous Vanadium-MFI Catalysts for Epoxidation of Styrene using Molecular Oxygen" *Top. Catal.*, 2010, **53**, 238.
13. H. Jin, **E. A. Prasetyanto**, N. Jiang, S.-M. Oh and S.-E. Park, "Length dependency of hydrocarbon adsorption on nanostacked MFI zeolite by tracer chromatography" *Appl. Surf. Sci.*, 2010, **256**, 5508.

14. M. B. Ansari, **E. A. Prasetyanto**, J. Lee and S.-E. Park, "Catalytic behavior of melamine glyoxal resin towards consecutive oxidation and oxy-Michael addition" *Res. Chem. Intermed.*, 2010, **36**, 677.
15. Sujandi, **E. A. Prasetyanto**, S.-C. Lee and S.-E. Park, "Microwave synthesis of large pored chloropropyl functionalized mesoporous silica with p6mm, Ia-3d, and Im3m structures" *Microporous Mesoporous Mater.*, 2009, **118**, 134.
16. Sujandi, **E. A. Prasetyanto**, D.-S. Han, S.-C. Lee and S.-E. Park, "Immobilization of Co(III) using tethered cyclam ligand on SBA-15 mesoporous silica for aerial oxidation of ethylbenzene" *Catal. Today*, 2009, **141**, 374.
17. Y.-H. Seo, **E. A. Prasetyanto**, N. Jiang, S.-M. Oh and S.-E. Park, "Catalytic dehydration of methanol over synthetic zeolite W" *Microporous Mesoporous Mater.*, 2009, **128**, 108.
18. S.-E. Park and **E. A. Prasetyanto**, "Organocatalytic Application of Direct Organo-Functionalized Mesoporous Catalysts Prepared by Microwave" *Top. Catal.*, 2009, **52**, 91.
19. Sujandi, **E. A. Prasetyanto** and S.-E. Park, "Synthesis of short-channeled amino-functionalized SBA-15 and its beneficial applications in base-catalyzed reactions" *Appl. Catal., A*, 2008, **350**, 244.
20. S. Saravanamurugan, Sujandi, **E. A. Prasetyanto** and S.-E. Park, "Liquid-phase reaction of 2'-hydroxyacetophenone and benzaldehyde over SO₃H-SBA-15 catalysts: Influence of microwave and thermal effects" *Microporous Mesoporous Mater.*, 2008, **112**, 97.
21. S. Saravanamurugan, **E. A. Prasetyanto**, Sujandi and S.-E. Park, "Short channeled amino functionalized SBA-15 catalysts for the liquid phase reaction between 2-hydroxyacetophenone and benzaldehyde" *Stud. Surf. Sci. Catal.*, 2008, **174B**, 1271.
22. B. M. Reddy, P. Bharali, Y.-H. Seo, **E. A. Prasetyanto** and S.-E. Park, "Surfactant-Controlled and Microwave-Assisted Synthesis of Highly Active C_xZr_{1-x}O₂ Nano-Oxides for CO Oxidation" *Catal. Lett.*, 2008, **126**, 125.
23. **E. A. Prasetyanto** and S.-E. Park, "Catalytic oxidation of cyclohexene with hydrogen peroxide over Cu(II)-cyclam-SBA-16 catalyst" *Bull. Korean Chem. Soc.*, 2008, **29**, 1033.
24. **E. A. Prasetyanto**, S.-C. Lee, S.-M. Jeong and S.-E. Park, "Chiral enhancement in diethyl malonate addition by morphosynthesized L-proline mesoporous silica" *Chem. Commun. (Cambridge, U. K.)*, 2008, 1995.
25. **E. A. Prasetyanto**, Sujandi, S.-C. Lee and S.-E. Park, "Highly dispersed CuO nanoparticles on SBA-16 type mesoporous silica with Cyclam SBA-16 as a precursor" *Bull. Korean Chem. Soc.*, 2007, **28**, 2359.
26. Sujandi, **E. A. Prasetyanto**, S.-C. Han and S.-E. Park, "Styrene epoxidation over cobalt cyclam immobilized SBA-15 catalyst" *Bull. Korean Chem. Soc.*, 2006, **27**, 1381.

PATENT APPLICATIONS

1. Park, S.-E.; **Prasetyanto, E. A.**; Jeong S.-M., *Korean Patent*
KP 10-2008-0051304
키랄성 유기물 관능기를 갖는 플러그드 메조세공 구조의하이브리드 실리카
(plugged mesoporous silica having an organic chiral functional group)
2. Park, S.-E.; Jiang N.; Han D.-S.; **Prasetyanto, E. A.**; Jeong E.-Y., *Korean Patent*
KP 10-2008-0051313.
금속이 치환된 메조세공 실리카 및 그 제조방법
(Mesoporous silica substituted with metal and preparing method thereof)
3. Park, S.-E.; Jiang N.; **Prasetyanto, E. A.**; Han D.-S.; Jin H., *Korean Patent*
KP 10-2009-0003263.
메조-마이크로 세공을 가지는 나노 세공체 제조방법과 메조-마이크로 세공을
가지는 나노 세공체 촉매 (a preparation method for zeolite having mesoporous and its use
for catalyst)
4. Park, S.-E.; **Prasetyanto, E. A.**; Jeong E.-Y., *Korean Patent*
KP 10-2009-0046265
짧은 채널을 갖는 6 각 소평판형의 멜라민 구조가 치환된 메조세공
실리카 (synthesis of short channeled hexagonal mesoporous silica having melamine as
functional group)