

GAO GROUP PERIODIC MESOPOROUS ORGANOSILICA PMO PUBLICATIONS

2003 PUBLICATIONS

Landskron, Kai; Hatton, Benjamin D.; Perovic, Doug D.; Ozin, Geoffrey A. **Periodic Mesoporous Organosilicas Containing Interconnected [Si(CH₂)]₃ Rings.** Science (Washington, DC, United States) (2003), 302(5643), 266-269

Asefa, Tewodros; Kruk, Michal; Coombs, Neil; Grondey, Hiltrud; MacLachlan, Mark J.; Jaroniec, Mietek; Ozin, Geoffrey A. **Novel Route to Periodic Mesoporous Aminosilicas, PMAs: Ammonolysis of Periodic Mesoporous Organosilicas.** Journal of the American Chemical Society (2003), 125(38), 11662-11673.

2002 PUBLICATIONS

Kruk, Michal; Asefa, Tewodros; Coombs, Neil; Jaroniec, Mietek; Ozin, Geoffrey A. **Synthesis and characterization of ordered mesoporous silicas with high loadings of methyl groups.** Journal of Materials Chemistry (2002), 12(12), 3452-3457.

Asefa, Tewodros; Coombs, Neil; Grondey, Hiltrud; Jaroniec, Mietek; Kruk, Michal; MacLachlan, Mark J.; Ozin, Geoffrey A. **Bio-inspired nanocomposites: from synthesis toward potential applications.** Materials Research Society Symposium Proceedings (2002), 707(Self-Assembly Processes in Materials), 93-104.

Kuroki, Masakatsu; Asefa, Tewodros; Whitnal, Wesley; Kruk, Michal; Yoshina-Ishii, Chiaki; Jaroniec, Mietek; Ozin, Geoffrey A. **Synthesis and Properties of 1,3,5-Benzene Periodic Mesoporous Organosilica (PMO): Novel Aromatic PMO with Three Point Attachments and Unique Thermal Transformations.** Journal of the American Chemical Society (2002), 124(46), 13886-13895.

Kruk, Michal; Asefa, Tewodros; Jaroniec, Mietek; Ozin, Geoffrey A. **Synthesis and characterization of methyl- and vinyl-functionalized ordered mesoporous silicas with high organic content.** Studies in Surface Science and Catalysis (2002), 141(Nanoporous Materials III), 197-204.

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Asefa, Tewodros; Coombs, Neil; Grondey, Hiltrud; Jaroniec, Mietek; Kruk, Michal; MacLachlan, Mark J.; Ozin, Geoffrey A. **Bio-inspired nanocomposites: from synthesis toward potential applications.** Materials Research Society Symposium Proceedings (2002), 711(Advanced Biomaterials: Characterization, Tissue Engineering and Complexity), 347-357.

Kruk, Michal; Asefa, Tewodros; Jaroniec, Mietek; Ozin, Geoffrey A. **Metamorphosis of Ordered Mesopores to Micropores: Periodic Silica with Unprecedented Loading of Pendant Reactive Organic Groups Transforms to Periodic Microporous Silica with Tailorable Pore Size.** Journal of the American Chemical Society (2002), 124(22), 6383-6392.

Matos, Jivaldo R.; Kruk, Michal; Mercuri, Lucildes P.; Jaroniec, Mietek; Asefa, Tewodros; Coombs, Neil; Ozin, Geoffrey A.; Kamiyama, Tomoaki; Terasaki, Osamu. **Periodic Mesoporous Organosilica with Large Cagelike Pores.** Chemistry of Materials (2002), 14(5), 1903-1905.

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Temtsin, Galina; Asefa, Tewodros; Bittner, Shmuel; Ozin, Geoffrey A. **Aromatic PMOs: tolyl, xylyl and dimethoxyphenyl groups integrated within the channel walls of hexagonal mesoporous silicas.** Journal of Materials Chemistry (2001), 11(12), 3202-3206.

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Asefa, Tewodros; Kruk, Michal; MacLachlan, Mark J.; Coombs, Neil; Grondey, Hiltrud; Jaroniec, Mietek; Ozin, Geoffrey A. **Novel Bifunctional Periodic Mesoporous Organosilicas, BPMOs: Synthesis, Characterization, Properties and in-Situ Selective Hydroboration-Alcoholysis Reactions of Functional Groups.** Journal of the American Chemical Society (2001), 123(35), 8520-8530.

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