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(54) **BLOCK COPOLYMER PROCESSING FOR MESOSTRUCTURED INORGANIC OXIDE MATERIALS**

(75) **Inventors:** **Galen D. Stucky**, Goleta, CA (US); **Bradley F. Chmelka**, Goleta, CA (US); **Dongyuan Zhao**, Isla Vista, CA (US); **Nick Melosh**, Tucson, AZ (US); **Qisheng Huo**, Williamsville, NY (US); **Jianglin Feng**, Charlottesville, VA (US); **Peidong Yang**, Santa Barbara, CA (US); **David Pine**, Santa Barbara, CA (US); **David Margolese**, Montecito, CA (US); **Wayne Lukens, Jr.**, Summerland, CA (US); **Glenn H. Fredrickson**, Santa Barbara, CA (US); **Patrick Schmidt-Winkel**, Goleta, CA (US)

(73) **Assignee:** **The Regents of the University of California**, Oakland, CA (US)

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(58) **Field of Search** **516/100, 111; 528/403; 428/404, 391; 501/12; 502/527.24, 407; 427/218; 530/417; 435/803; 210/660**

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Primary Examiner—Richard D. Lovering
(74) *Attorney, Agent, or Firm*—Fulbright & Jaworski L.L.P.

(57) **ABSTRACT**

Mesoscopically ordered, hydrothermally stable metal oxide-block copolymer composite or mesoporous materials are described herein that are formed by using amphiphilic block copolymers which act as structure directing agents for the metal oxide in a self-assembling system.