

Title (en)
BLOCK COORDINATION COPOLYMERS

Title (de)
BLOCKKOORDINATIONSCOPOLYMERE

Title (fr)
COPOLYMÈRES DE COORDINATION À BLOCS

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Application
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Abstract (en)
[origin: WO2010099143A2] The present invention provides compositions of crystalline coordination copolymers and methods of making and using the compositions wherein multiple organic molecules are assembled to produce porous framework materials with layered or core-shell structures. These materials are synthesized by sequential growth techniques such as the seed growth technique. In addition, the invention provides a simple procedure for controlling functionality.

IPC 8 full level
C08F 292/00 (2006.01); **C08G 79/00** (2006.01)

CPC (source: EP KR)
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Citation (search report)
• [X] SHUHEI FURUKAWA ET AL: "Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship", ANGEWANDTE CHEMIE INTERNATIONAL EDITION, vol. 48, no. 10, 23 February 2009 (2009-02-23), pages 1766 - 1770, XP055059895, ISSN: 1433-7851, DOI: 10.1002/anie.200804836
• [A] HYUNGPHIL CHUN ET AL: "Synthesis, X-ray Crystal Structures, and Gas Sorption Properties of Pillared Square Grid Nets Based on Paddle-Wheel Motifs: Implications for Hydrogen Storage in Porous Materials", CHEMISTRY - A EUROPEAN JOURNAL, vol. 11, no. 12, 6 June 2005 (2005-06-06), pages 3521 - 3529, XP055059986, ISSN: 0947-6539, DOI: 10.1002/chem.200401201
• See references of WO 2010099143A2

Citation (examination)
• 69451 WEINHEIM ET AL: "Supporting Information Wiley-VCH 2008 Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core/Shell Type Single Crystals with In-plane Rotation Epitaxial Relationship", 12 December 2008 (2008-12-12), XP055097231, Retrieved from the Internet <URL:http://onlinelibrary.wiley.com/store/10.1002/anie.200804836/asset/supinfo/anie_200804836_sm_miscellaneous_information.pdf?v=1&s=5ea76905b337514d3d0ead7c1c4fb33016121190> [retrieved on 20140120]
• MUELLER U ET AL: "METAL-ORGANIC FRAMEWORKS-PROSPECTIVE INDUSTRIAL APPLICATIONS", JOURNAL OF MATERIALS CHEMISTRY, ROYAL SOCIETY OF CHEMISTRY, GB, vol. 16, no. 7, 1 January 2006 (2006-01-01), pages 626 - 636, XP002452692, ISSN: 0959-9428, DOI: 10.1039/B511962F

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DOCDB simple family (publication)
WO 2010099143 A2 20100902; WO 2010099143 A3 20110127; BR PI1008306 A2 20170328; CA 2753579 A1 20100902; CA 2753579 C 20140211; CN 102414255 A 20120411; CN 102414255 B 20150923; EP 2401320 A2 20120104; EP 2401320 A4 20130522; JP 2012519171 A 20120823; KR 101280696 B1 20130702; KR 20110120978 A 20111104; MX 2011009041 A 20111216; MY 156887 A 20160415; RU 2011139285 A 20130410; RU 2490282 C2 20130820; SG 173808 A1 20111028

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