

Graeme Moad – Patents 1994-2021 (citation counts from Scifinder or Derwent)

37 patent families, 47 granted US patents, 22 granted European applications.

1. A kind of preparation method and application of polyvinyl chloride [Machine Translation]. Feng A.; Sun Z.; Tang H.; Moad G.; Zhang, L. (Beijing University of Chemical Technology) [CN109575167B](#) (*Chem Abstr.* 170:535539).
2. Polyvinyl chloride-polyester copolymer plasticizer and preparation method thereof [Machine Translation]. Feng A.; Sun Z.; Tang H.; Moad G. (Beijing University of Chemical Technology) [CN109337051B](#) (*Chem Abstr.* 170:354396).
3. Polyvinyl chloride based additive and preparation method thereof [Machine Translation]. Feng A.; Sun Z.; Tang H.; Moad G. (Beijing University of Chemical Technology) [CN109293857B](#) (*Chem Abstr.* 171:395176). (1 citation in Scifinder, 1 in Derwent)
4. Modification of propylene polymers. Dagley, I.J; Moad, G.; Nichols, L.V. [WO201200022A1](#) (*Chem Abstr.* 156:123038) AU2011274297B2, [CN103080149B](#), [EP2585500A1](#), [US9169336B2](#), [US20130137834A1](#) (3 citations in Scifinder, 7 in Derwent).
5. RAFT polymerization. Rizzardo, E.; Chiefari, J.; Benaglia, M.; Thang, S.; Moad, G., [WO2010083569A1](#) (*Chem Abstr.* 153:204802) AU2010206500B2, AU2014262207B2, [CN102361889B](#), [EP2389395B1](#), [US9340498B2](#), [US20120004381A1](#) (12 citations in Scifinder, 15).
6. Conducting and semiconducting organic materials. Chen, M., Moad, G., Rizzardo, E., Evans, R.A., Haeussler, M. [WO2009155657A1](#) (*Chem Abstr.* 152:120626), AU 2009262359B2, [US8501889B2](#), [US8993697B2](#), [US20110166298A1](#), [US20130289217A1](#) (6 citations in Scifinder, 2).
7. Solar cell and method of preparation thereof. Triani, G, Campbell, J.A., Moad, G., Collis, G.E., Evans, P.J., Burford, R.P., Mozer, A.J. [WO2009013285](#) (*Chem Abstr.* 150:195724), [CN101779258A](#), [EP2171735A1](#), [US8440908B2](#), [US20100200051A1](#) (6 citations in Scifinder, 13 in Derwent)
8. Modification of polyolefins. Moad, G., O'Shea, M.S., Peeters, G., Postma, A. [WO2009012523](#) (*Chem Abstr.* 150: 169020), AU2008280824A1, [EP2176303A1](#), [US20100298502A1](#) (0 citations in Scifinder, 2 in Derwent)
9. Starch nanocomposite materials containing modified layered silicate clay. Khemani, K.C., Moad, G., Lascaris, E., Li, G., Simon, G., Habsuda, J., Shanks, R., Genovese, A., Gunaratne, W., Nichols, L. [WO2008144845A1](#) (*Chem Abstr.* 150:7216), AU8255573B2, [CN101784596B](#), [EP2188332B1](#), [US9745453B2](#), [US11008442B2](#), [US20100307951A1](#), [US20170283579A1](#), [US20210246286A1](#) (4 citations in Scifinder, 1 in Derwent).
10. Reactive extrusion modification of functional polymers and/or polysaccharides. Khemani, K, Morris, B., Moad, G., Li G., [WO2008074096A1](#) (*Chem Abstr.* 149:106787) (1 citation, 1 in Derwent).
11. Process for transforming the end groups of polymers. Moad, G., Thang, S, H., Rizzardo, E., [WO2008103144A1](#) (*Chem Abstr.* 149:308346), AU2007347458B2, [EP132235A1](#), [US8569441B2](#), [US20100137548A1](#) (9 citations in Scifinder, 8 in Derwent).
12. Process for synthesizing thiol terminated polymers. Moad, G., Thang, S, H., Rizzardo, E., [WO2007100719A1](#) (*Chem Abstr.* 147:323501), AU2007221174B2, [EP1989237A1](#), [US8283436B2](#), [US20070232783A1](#) (12 citations in Scifinder, 9 in Derwent).
13. Dispersing agents in composites containing talc. Moad, G, Li, G., Campbell, J., Wertmer, H., Pfaendner, R. [WO2007039435A1](#) (*Chem Abstr.* 146:402953, 166:305761), AU2006298825A1,

- [CN101321817B](#), [EP1940935B1](#), [US8110626B2](#), [US20100069557A1](#) (2 citations in Scifinder, 13 in Derwent).
14. Removing sulfur-containing end groups from vinyl polymer without changing solvent. Farnham, W. B., Fryd, M., Moad, G., Thang, S. H., Rizzardo, E., [WO2005113612A1](#) (*Chem. Abstr.* 144:23268), AU5245853BB, [EP1751194B1](#), [US7807755B2](#), [US20060235127A1](#) (19 citations in Scifinder, 21 in Derwent).
 15. Acrylic dispersing agents in nanocomposites. Moad, G., Simon, G.P., Dean, K.M., Mayadunne, R. T. A., Li, G., Rizzardo, E., Evans, R.A., Pfaendner, R. Wertmer, H., [WO2004113436A1](#) (*Chem. Abstr.* 142:75401), AU2004249438B2, [CN180961B](#), [EP1636310B1](#), [US7288585B2](#) (13 citations in Scifinder, 40 in Derwent).
 16. Polyester masterbatch composition Moad, G., Peeters, G., O'Shea, M.S. Tozer, R.D., Simon, D. [WO2004101666A2](#) (*Chem. Abstr.* 142:7372), AU2004239029A1, [EP1641869A2](#), [US20060293416A1](#) (7 citations in Scifinder, 10 in Derwent).
 17. Dispersing agents in nanocomposites, preparation of nanocomposites, and compositions. Moad, G., Simon, G.P., Dean, K.M., Mayadunne, R. T. A., Li, G., Pfaendner, R. and Wertmer, H., [WO2004078785A1](#) (*Chem. Abstr.* 141:261498), AU4218252B2, [EP1599500A1](#), [CN100558806C](#), [US7837899B2](#), [US20070072979A1](#), [US20110028633A1](#), (6 citations in Scifinder, 25 in Derwent).
 18. Preparation of polyolefin nanocomposites and nanocomposite of improved physical properties. Moad, G., Simon, G.P., Dean, K.M., Mayadunne, R. T. A., Li, G., Pfaendner, R. Wertmer, H., Schneider, A. [WO2004041721A1](#) (*Chem. Abstr.* 140:424418) AU2003287983B1, [CN100393620C](#), [EP1575873B1](#), [US8080613B2](#), [US20070142534A1](#), [US20100317786A1](#), (11 citations in Scifinder, 40 in Derwent).
 19. Block polyester resins with improved properties. Moad, G., Groth, A. M., O'Shea, M. S. Tozer, R. D. [WO2002022705A1](#) (*Chem. Abstr.* 136:263636), AU2001287370B2, [EP1317497A1](#), [US20040116619A1](#) (4 citations in Scifinder, 2 in Derwent).
 20. Microgel synthesis and products produced therefrom. Berge, C. T., Chiefari, J., Johnson, J. W., Mau, A., Mayadunne, R., Moad, C. L., Moad, G., Rizzardo, E., Swiegers, G., Thang, S. and Wilson, G. [WO200177198A1](#) (*Chem. Abstr.* 135:304605), AU2001251439B2, [CN1422291B](#), [CN1422291A](#), [EP1268591B1](#), [US7064151B1](#), [US20060142404A1](#) (24 citations in Scifinder).
 21. Microgels and process for their preparation. Berge, C. T., Fryd, M., Johnson, J. W., Moad, G., Rizzardo, E., Scopazzi, C. and Thang, S. H. [WO200002939A1](#) (*Chem. Abstr.* 132:093843), AU0746495B2, [EP1123332B1](#), [US6355718B1](#), [US6462114B2](#), [US6646055B2](#), [US6653407B2](#), [US6822056B2](#), [US20020019475A1](#), [US20020019476A1](#), [US20020022683A1](#), [US20020022684A1](#), (16 citations in Scifinder).
 22. High Melt Strength Polypropylene. O'Shea, M., Van Diepen, G., Moad, G. [WO9936466A1](#) (*Chem. Abstr.* 131:117037) AU0732342B2, [CN1291213A](#), [EP1080148A1](#), [US6951904B1](#) (9 citations in Scifinder).
 23. Polymerization with living characteristics. Chiefari, J., Mayadunne R.P.T., Moad, G., Rizzardo, E., Thang, S.H. [WO9931144A1](#) (*Chem. Abstr.* 131:45250), AU2003200706A1, [EP1054906B2](#), [US6642318B1](#), [US6747111B2](#), [US20040171777A1](#), [US2004002413A1](#), [US20080139764A1](#), [US20080139836A1](#), (87 citations in Scifinder).
 24. Synthesis of dithioester chain-transfer agents and use of bis(thioacyl) disulfides or dithioesters as chain-transfer agents in radical polymerization. Rizzardo, E., Thang, S.H., Moad, G. [WO9905099A1](#) (*Chem. Abstr.* 130:154069), AU0770550B2, [EP1149075B1](#), [US6512081B1](#) (36 citations in Scifinder).
 25. Method of macromonomer synthesis. Chiefari, John, Rizzardo, E., Moad, G., Gridnev, A. A.

- [WO9847927A1](#) (*Chem. Abstr.* 129:331174), AU0752670B2, [EP977782A1](#), [US6376626B1](#) (15 citations in Scifinder).
26. Polymerization initiators for controlling polymer molecular weight and structure. Anderson, A. Gridnev, A.A, Rizzardo, E., Moad, G., Thang, S.H. [WO9830601A2](#) (*Chem. Abstr.* 129:149373), AU0750626B2, [EP0951485B1](#), [US627134B1](#) (18 citations in Scifinder).
27. Polymerization with living characteristics with controlled dispersity, polymers prepared thereby, and chain-transfer agents used in the same. Le, T.P., Moad, G., Rizzardo, E., Thang, S.H. [WO9801478A1](#) (*Chem. Abstr.* 128: 115390), AU0728717B1, [CN1137144C](#), [CN1228787A](#), [CN1331851C](#), [CN1500813A](#), [CN1673216A](#), [CN100473646C](#), [EP0910587B1](#), [US7250479B2](#), [US7662986B2](#), [US7666962B2](#), [US7714075B1](#), [US20040171777A1](#), [US20080139764A1](#), [US20080139836A1](#), (510 citations in Scifinder).
28. Branched or chain-extended polyesters and their manufacture. Van Diepen, G., O'Shea, M., Moad, G. [WO9833837A1](#) (*Chem. Abstr.* 129:176164), [AU0730757B2](#), [CN1109056C](#), [CN1246129A](#), [EP0956313B1](#), [US6350822B1](#) (15 citations in Scifinder).
29. Catalytic polymerization process and the resulting polymers with terminal unsaturation. Moad, G., Rizzardo, E., Moad, C.L., Ittel, S.D., Wilczek, L., Gridnev, A.A. [WO9731030A1](#) (*Chem. Abstr.* 127:234752), AU0732400B2, [EP882071B1](#), [CN1134455C](#), [CN1211993A](#), CN1240725C, [US6100350A](#), [US6624261B1](#), [US7148297B2](#), [US7144963B2](#), [US7109282B2](#), [US20030195313A1](#), [US20030212218A1](#), [US20050014911A1](#) (10 citations in Scifinder).
30. Control of molecular weight and end-group functionality in addition polymers. Rizzardo, E, Thang, S H, Moad, G, Chong, Y K [WO9713792A1](#) (*Chem. Abstr.* 126:330948), AU0720690B2, [CN1116308](#), [CN1198749A](#), [EP0853634B1](#), [US6235857B1](#) (7 citations).
31. Preparation of methylene-containing cyclic thio monomers and polymers. Evans, R A , Rizzardo, E, Moad, G [WO9619471A1](#) (*Chem. Abstr.* 125:143546), AU0706298B2, [EP0799220B1](#), [US6043361A](#), [US6344556B1](#), [US6495643B1](#) (18 citations in Scifinder).
32. Polymerization in aqueous media in the presence of cobalt complexes. Moad, C L, Moad, G, Krstina, J C, Rizzardo, E, Thang, S H, Thang, S.H., Fryd, M [WO9615158A1](#) (*Chem. Abstr.* 125:087542), AU0762159B2, [EP0791017B1](#), [US5756605A](#) (14 citations in Scifinder),
33. Preparation of block copolymers with low dispersity by radical polymerization. Moad, C L, Moad, G, Krstina, J, Rizzardo, E, Berge, C T, Darling, T R [WO9615157A1](#) (*Chem. Abstr.* 125:115512), AU0715459B2, [EP0791016B1](#), [US6291620B1](#) (26 citations in Scifinder).
34. Allylic chain transfer agents. Rizzardo, E, Thang, S H, Moad, G, Berge, C T [WO9512568A1](#) (*Chem. Abstr.* 123:287205), AU0688403B1, [CN1082965C](#), [EP0729449B1](#), [US5773543A](#), [US5977278A](#) (13 citations in Scifinder).
35. Aqueous dispersions containing cyclopolymer dispersants for use as inks. Ma, S, Thang, S H, Rizzardo, E, Moad, G [WO9504109A1](#) (*Chem. Abstr.* 123:202411), AU679258B1, [EP0711327B1](#), [US5571850A](#) (9 citations in Scifinder).
36. Cyclopolymerisation monomers and polymers. Thang, S H, Rizzardo, E, Moad, G [WO9504026A1](#) (*Chem. Abstr.* 123:229253), AU 681426B1, [EP711270B1](#), [US5830966A](#) (7 citations in Scifinder).
37. New ring opening monomer(s). Rizzardo, E, Evans, R A, Moad, G, Thang, S H [WO9414792A1](#) (*Chem. Abstr.* 123:33842), AU675819B2, [EP0675885B1](#), [US5665839A](#) (13 citations in Scifinder).