

# Ernesto Di Maio

## List of Publications by Year in descending order

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Version: 2024-02-01

121  
papers

3,620  
citations

168829

31  
h-index

169272

56  
g-index

127  
all docs

127  
docs citations

127  
times ranked

4029  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The effect of organofluorine additives on the morphology, thermal conductivity and mechanical properties of rigid polyurethane and polyisocyanurate foams. <i>Journal of Cellular Plastics</i> , 2022, 58, 121-137. | 1.2 | 15        |
| 2  | Heterogeneous Bubble Nucleation by Homogeneous Crystal Nuclei in Poly(L-lactic Acid) Foaming. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .  | 1.1 | 4         |
| 3  | Digital holography as metrology tool at micro-nanoscale for soft matter. <i>Light Advanced Manufacturing</i> , 2022, 3, 151.  | 2.2 | 13        |
| 4  | Rheology-driven design of pizza gas foaming. <i>Physics of Fluids</i> , 2022, 34, .   | 1.6 | 5         |
| 5  | Sintering graded foamed beads: Compressive properties. <i>Journal of Applied Polymer Science</i> , 2022, 139, .   | 1.3 | 4         |
| 6  | Role of Air Bubble Inclusion on Polyurethane Reaction Kinetics. <i>Materials</i> , 2022, 15, 3135.  | 1.3 | 5         |
| 7  | Matricial foaming. <i>Polymer Testing</i> , 2022, 111, 107590.  | 2.3 | 1         |
| 8  | Bubble-Patterned Films by Inkjet Printing and Gas Foaming. <i>Coatings</i> , 2022, 12, 806.   | 1.2 | 0         |
| 9  | TPU-based porous heterostructures by combined techniques. <i>International Polymer Processing</i> , 2022, 37, 415-426.  | 0.3 | 4         |
| 10 | Engineering bioactive synthetic polymers for biomedical applications: a review with emphasis on tissue engineering and controlled release. <i>Materials Advances</i> , 2021, 2, 4447-4478.                          | 2.6 | 40        |
| 11 | Modelling Sorption Thermodynamics and Mass Transport of n-Hexane in a Propylene-Ethylene Elastomer. <i>Polymers</i> , 2021, 13, 1157.   | 2.0 | 17        |
| 12 | Classification and Production of Polymeric Foams among the Systems for Wound Treatment. <i>Polymers</i> , 2021, 13, 1608.   | 2.0 | 11        |
| 13 | Enhancement of crystallization kinetics of poly(L-lactic acid) by grafting with optically pure branches. <i>Polymer</i> , 2021, 227, 123852.  | 1.8 | 7         |
| 14 | Towards a systematic determination of multicomponent gas separation with membranes: the case of CO <sub>2</sub> /CH <sub>4</sub> in cellulose acetates. <i>Journal of Membrane Science</i> , 2021, 628, 119226.     | 4.1 | 18        |
| 15 | A remote foaming experiment. <i>Education for Chemical Engineers</i> , 2021, 36, 171-175.   | 2.8 | 0         |
| 16 | Selective Gold and Palladium Adsorption from Standard Aqueous Solutions. <i>Processes</i> , 2021, 9, 1282.  | 1.3 | 4         |
| 17 | Competing bubble formation mechanisms in rigid polyurethane foaming. <i>Polymer</i> , 2021, 228, 123877.  | 1.8 | 17        |
| 18 | Flowering in bursting bubbles with viscoelastic interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .   | 3.3 | 15        |

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|----|--|-----|-----------|
| 19 | Axisymmetric bare freestanding films of highly viscous liquids: Preparation and real-time investigation of capillary leveling. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 493-499.           | 5.0 | 6         |
| 20 | A microcapillary rheometer for microliter sized polymer characterization. <i>Polymer Testing</i> , 2021, 102, 107332.  | 2.3 | 15        |
| 21 | Sorption thermodynamics of low molecular weight compounds in polymers. <i>Supercritical Fluid Science and Technology</i> , 2021, 9, 69-177.  | 0.5 | 0         |
| 22 | Bubble growth. <i>Supercritical Fluid Science and Technology</i> , 2021, , 353-374.  | 0.5 | 1         |
| 23 | Gas foaming with physical blowing agents. <i>Supercritical Fluid Science and Technology</i> , 2021, 9, 33-54.  | 0.5 | 2         |
| 24 | Rheological properties. <i>Supercritical Fluid Science and Technology</i> , 2021, 9, 263-283.  | 0.5 | 0         |
| 25 | Foams and their applications. <i>Supercritical Fluid Science and Technology</i> , 2021, 9, 1-20.   | 0.5 | 3         |
| 26 | Batch processing. <i>Supercritical Fluid Science and Technology</i> , 2021, 9, 389-410.  | 0.5 | 0         |
| 27 | Volumetric Properties and Sorption Behavior of Perfluoropolymers with Dioxolane Pendant Rings. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 5276-5286.                                   | 1.8 | 12        |
| 28 | Tuning the three-dimensional architecture of supercritical CO <sub>2</sub> foamed PCL scaffolds by a novel mould patterning approach. <i>Materials Science and Engineering C</i> , 2020, 109, 110518.          | 3.8 | 18        |
| 29 | Thermoplastic polyurethaneâ€™graphene nanoplatelets microcellular foams for electromagnetic interference shielding. <i>Graphene Technology</i> , 2020, 5, 33-39.   | 1.9 | 8         |
| 30 | Wettability of graphene by molten polymers. <i>Polymer</i> , 2019, 180, 121708.  | 1.8 | 14        |
| 31 | Thermosetting polyurethane foams by physical blowing agents: Chasing the synthesis reaction with the pressure. <i>Journal of Supercritical Fluids</i> , 2019, 154, 104630.                                     | 1.6 | 15        |
| 32 | Fast and Accurate Thickness Mapping of Thin Liquid Films. <i>EPJ Web of Conferences</i> , 2019, 215, 12002.  | 0.1 | 0         |
| 33 | Multi-graded foams upon time-dependent exposition to blowing agent. <i>Chemical Engineering Journal</i> , 2019, 362, 812-817.  | 6.6 | 20        |
| 34 | Polyurethane synthesis under high-pressure CO <sub>2</sub> , a FT-NIR study. <i>European Polymer Journal</i> , 2019, 115, 364-374.   | 2.6 | 11        |
| 35 | Quantitative imaging of the complexity in liquid bubblesâ€™ evolution reveals the dynamics of film retraction. <i>Light: Science and Applications</i> , 2019, 8, 20.   | 7.7 | 26        |
| 36 | Recent Advancements and Perspective About Digital Holography: A Super-Tool in Biomedical and Bioengineering Fields. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 235-241. | 0.3 | 1         |

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|----|---|-----|-----------|
| 37 | Holographic Imaging for 3D Visualization and Metrology of Liquid Bubbles. , 2019, , .   |     | 0         |
| 38 | Elasticity in Bubble Rupture. Langmuir, 2018, 34, 5646-5654.  | 1.6 | 24        |
| 39 | Mass transport and physical properties of polymeric methylene diphenyl diisocyanate/CO 2 solutions. Fluid Phase Equilibria, 2018, 456, 116-123.   | 1.4 | 12        |
| 40 | Microcellular foaming of arabinoxylan and PEGylated arabinoxylan with supercritical CO2. Carbohydrate Polymers, 2018, 181, 442-449.   | 5.1 | 6         |
| 41 | Foaming of polymers with supercritical fluids and perspectives on the current knowledge gaps and challenges. Journal of Supercritical Fluids, 2018, 134, 157-166.   | 1.6 | 168       |
| 42 | Fast and Accurate Thickness Mapping of Liquid Bubbles and Thin Protein Films. , 2018, , .   |     | 1         |
| 43 | Early bubble coalescence in thermoplastic foaming. Materials Letters, 2018, 228, 459-462.   | 1.3 | 18        |
| 44 | Thin-film drainage study based on holographic 3D particle tracking. , 2018, , .   |     | 1         |
| 45 | Holographic phase imaging for full-field thickness mapping of evolving thin liquid films. , 2018, , .   |     | 0         |
| 46 | Dielectric Properties of Sustainable Nanocomposites Based on Zein Protein and Lignin for Biodegradable Insulators. Advanced Functional Materials, 2017, 27, 1605142.  | 7.8 | 41        |
| 47 | Bioâ€œnanocomposites: Dielectric Properties of Sustainable Nanocomposites Based on Zein Protein and Lignin for Biodegradable Insulators (Adv. Funct. Mater. 8/2017). Advanced Functional Materials, 2017, 27, . | 7.8 | 0         |
| 48 | Insight into bubble nucleation at high-pressure drop rate. Journal of Cellular Plastics, 2017, 53, 551-560.   | 1.2 | 15        |
| 49 | Modeling and simulation of viscoelastic film retraction. Journal of Non-Newtonian Fluid Mechanics, 2017, 249, 26-35.  | 1.0 | 10        |
| 50 | Carbon nanotubes in microwave foaming of thermoplastics. Carbon, 2017, 125, 32-38.  | 5.4 | 41        |
| 51 | Interferometric measurement of film thickness during bubble blowing. , 2017, , .  |     | 2         |
| 52 | A pressure vessel for studying gas foaming of thermosetting polymers: sorption, synthesis and processing. Polymer Testing, 2017, 62, 137-142.   | 2.3 | 13        |
| 53 | Mechanical Characterization of a Polyurethane-Cement Hybrid Foam in Compression, Tension, and Shear. Journal of Materials in Civil Engineering, 2017, 29, .   | 1.3 | 12        |
| 54 | Polystyrene Foaming at High Pressure Drop Rates. Industrial & Engineering Chemistry Research, 2016, 55, 5696-5701.  | 1.8 | 31        |

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|----|---|-----|-----------|
| 55 | Morphology modulation of gas-foamed, micrometric, hollow polystyrene particles. <i>Journal of Applied Polymer Science</i> , 2016, 133, .  | 1.3 | 1         |
| 56 | Easy-to-fill asymmetric polymeric micro-reservoirs. <i>RSC Advances</i> , 2016, 6, 64140-64146.   | 1.7 | 1         |
| 57 | Polyether polyol/CO <sub>2</sub> solutions: Solubility, mutual diffusivity, specific volume and interfacial tension by coupled gravimetry-Axisymmetric Drop Shape Analysis. <i>Fluid Phase Equilibria</i> , 2016, 425, 342-350.   | 1.4 | 16        |
| 58 | Raman Line Imaging of Poly( $\mu$ -caprolactone)/Carbon Dioxide Solutions at High Pressures: A Combined Experimental and Computational Study for Interpreting Intermolecular Interactions and Free-Volume Effects. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9115-9131. | 1.2 | 7         |
| 59 | Validated modeling of bubble growth, impingement and retraction to predict cell-opening in thermoplastic foaming. <i>Chemical Engineering Journal</i> , 2016, 287, 492-502.   | 6.6 | 28        |
| 60 | A novel lab-scale batch foaming equipment: The mini-batch. <i>Journal of Cellular Plastics</i> , 2016, 52, 533-543.   | 1.2 | 23        |
| 61 | Supercritical CO <sub>2</sub> Foaming of Thermoplastic Materials Derived from Maize: Proof-of-Concept Use in Mammalian Cell Culture Applications. <i>PLoS ONE</i> , 2015, 10, e0122489.   | 1.1 | 6         |
| 62 | Thermoplastic Processing of Blue Maize and White Sorghum Flours to Produce Bioplastics. <i>Journal of Polymers and the Environment</i> , 2015, 23, 72-82.   | 2.4 | 14        |
| 63 | On the unexpected non-monotonic profile of specific volume observed in PCL/CO <sub>2</sub> solutions. <i>Polymer</i> , 2015, 56, 252-255.   | 1.8 | 10        |
| 64 | Polyurethane-silica hybrid foam by sol-gel approach: Chemical and functional properties. <i>Polymer</i> , 2015, 56, 20-28.  | 1.8 | 71        |
| 65 | Osteogenic differentiation of CD271(+) cells from rabbit bone marrow cultured on three phase PCL/TZ-HA bioactive scaffolds: comparative study with mesenchymal stem cells (MSCs). <i>International Journal of Clinical and Experimental Medicine</i> , 2015, 8, 13154-62.         | 1.3 | 3         |
| 66 | Strategies to Produce Thermoplastic Starch-Zein Blends: Effect on Compatibilization. <i>Journal of Polymers and the Environment</i> , 2014, 22, 508-524.  | 2.4 | 18        |
| 67 | Anomalous swelling of molten PCL/scCO <sub>2</sub> solutions. , 2014, , .   |     | 3         |
| 68 | PS foams at high pressure drop rates. , 2014, , .   |     | 0         |
| 69 | Thermal management of a multiple mini-channel heat sink by the integration of a thermal responsive shape memory material. <i>Applied Thermal Engineering</i> , 2014, 62, 113-122.   | 3.0 | 7         |
| 70 | Hollow micro- and nano-particles by gas foaming. <i>Nano Research</i> , 2014, 7, 1018-1026.   | 5.8 | 22        |
| 71 | Investigation of CO <sub>2</sub> sorption in molten polymers at high pressures using Raman-line imaging. <i>Polymer</i> , 2013, 54, 812-818.  | 1.8 | 20        |
| 72 | Scaffolds with tubular/isotropic Bi-modal pore structures by gas foaming and fiber templating. <i>Materials Letters</i> , 2013, 93, 157-160.  | 1.3 | 10        |

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|----|--|-----|-----------|
| 73 | Hydration-induced reinforcement of rigid polyurethane-cement foams: The effect of the co-continuous morphology on the thermal-oxidative stability. <i>Polymer Degradation and Stability</i> , 2013, 98, 64-72.                                     | 2.7 | 55        |
| 74 | Effect of two kinds of lignins, alkaline lignin and sodium lignosulfonate, on the foamability of thermoplastic zein-based bionanocomposites. <i>Journal of Cellular Plastics</i> , 2012, 48, 516-525.  | 1.2 | 14        |
| 75 | Microstructure, degradation and in vitro MG63 cells interactions of a new poly( $\mu$ -caprolactone), zein, and hydroxyapatite composite for bone tissue engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2012, 27, 210-226.     | 0.8 | 29        |
| 76 | Cellulose based hybrid hydroxylated adducts for polyurethane foams. <i>AIP Conference Proceedings</i> , 2012, , .  | 0.3 | 3         |
| 77 | The role of protein-plasticizer-clay interactions on processing and properties of thermoplastic zein bionanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 125, E314.   | 1.3 | 24        |
| 78 | Hydration-induced reinforcement of rigid polyurethane-cement foams: mechanical and functional properties. <i>Journal of Materials Science</i> , 2012, 47, 6948-6957.   | 1.7 | 29        |
| 79 | Thermodynamics of water sorption in poly( $\epsilon$ -caprolactone): A comparative analysis of lattice fluid models including hydrogen bond contributions. <i>Fluid Phase Equilibria</i> , 2012, 313, 127-139.                                     | 1.4 | 17        |
| 80 | Architecture and properties of bi-modal porous scaffolds for bone regeneration prepared via supercritical CO <sub>2</sub> foaming and porogen leaching combined process. <i>Journal of Supercritical Fluids</i> , 2012, 67, 114-122.               | 1.6 | 39        |
| 81 | Solubility, mutual diffusivity, specific volume and interfacial tension of molten PCL/CO <sub>2</sub> solutions by a fully experimental procedure: effect of pressure and temperature. <i>Journal of Supercritical Fluids</i> , 2012, 67, 131-138. | 1.6 | 38        |
| 82 | Assessing the suitability of polylactic acid flexible films for high pressure pasteurization and sterilization of packaged foodstuff. <i>Journal of Food Engineering</i> , 2012, 111, 34-45.   | 2.7 | 29        |
| 83 | Tailoring the pore structure of PCL scaffolds for tissue engineering prepared via gas foaming of multi-phase blends. <i>Journal of Porous Materials</i> , 2012, 19, 181-188.   | 1.3 | 86        |
| 84 | Effect of Supramolecular Structures on Thermoplastic Zein-Lignin Bionanocomposites. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 10062-10070.   | 2.4 | 56        |
| 85 | Processing and shelf life issues of selected food packaging materials and structures from renewable resources. <i>Trends in Food Science and Technology</i> , 2011, 22, 72-80.   | 7.8 | 167       |
| 86 | Design of Bimodal PCL and PCL-HA Nanocomposite Scaffolds by Two Step Depressurization During Solid-state Supercritical CO <sub>2</sub> Foaming. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1150-1156.                                  | 2.0 | 68        |
| 87 | Processing/structure/property relationship of multi-scaled PCL and PCL-HA composite scaffolds prepared via gas foaming and NaCl reverse templating. <i>Biotechnology and Bioengineering</i> , 2011, 108, 963-976.                                  | 1.7 | 70        |
| 88 | Experimental characterization of phenolic-impregnated honeycomb sandwich structures for transportation vehicles. <i>Composite Structures</i> , 2011, 93, 2910-2924.  | 3.1 | 50        |
| 89 | Simultaneous experimental evaluation of solubility, diffusivity, interfacial tension and specific volume of polymer/gas solutions. <i>Polymer Testing</i> , 2011, 30, 303-309.   | 2.3 | 28        |
| 90 | Solid-state supercritical CO <sub>2</sub> foaming of PCL and PCL-HA nano-composite: Effect of composition, thermal history and foaming process on foam pore structure. <i>Journal of Supercritical Fluids</i> , 2011, 58, 158-167.                 | 1.6 | 88        |

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| 91  | Design of novel three-phase PCL/TZâ€“HA biomaterials for use in bone regeneration applications. Journal of Materials Science: Materials in Medicine, 2010, 21, 2569-2581.  | 1.7 | 30        |
| 92  | Investigation of Thermoplasticity of Zein and Kafirin Proteins: Mixing Process and Mechanical Properties. Journal of Polymers and the Environment, 2010, 18, 626-633.  | 2.4 | 26        |
| 93  | Hydration-induced reinforcement of polyurethaneâ€“cement foams: solvent resistance and mechanical properties. Journal of Materials Science, 2010, 45, 3388-3391.   | 1.7 | 28        |
| 94  | Effect of molecular structure on film blowing ability of thermoplastic zein. Journal of Applied Polymer Science, 2010, 115, 277-287.   | 1.3 | 63        |
| 95  | Poly(ethylene terephthalate) foams: Correlation between the polymer properties and the foaming process. Journal of Applied Polymer Science, 2010, 116, 27-35.  | 1.3 | 52        |
| 96  | Novel 3D porous multi-phase composite scaffolds based on PCL, thermoplastic zein and ha prepared via supercritical CO2 foaming for bone regeneration. Composites Science and Technology, 2010, 70, 1838-1846.  | 3.8 | 75        |
| 97  | Engineering of Foamed Structures for Biomedical Application. Journal of Cellular Plastics, 2009, 45, 103-117.  | 1.2 | 26        |
| 98  | Design of porous polymeric scaffolds by gas foaming of heterogeneous blends. Journal of Materials Science: Materials in Medicine, 2009, 20, 2043-2051.   | 1.7 | 112       |
| 99  | Engineered 1/4-bimodal poly(1/4-caprolactone) porous scaffold for enhanced hMSC colonization and proliferation. Acta Biomaterialia, 2009, 5, 1082-1093.  | 4.1 | 49        |
| 100 | Conventional and nanometric nucleating agents in poly(1/4-caprolactone) foaming: Crystals vs. bubbles nucleation. Polymer Engineering and Science, 2008, 48, 336-344.  | 1.5 | 59        |
| 101 | Polyurethaneâ€“cementâ€“based foams: Characterization and potential uses. Journal of Applied Polymer Science, 2008, 107, 1-8.  | 1.3 | 22        |
| 102 | Process-structure Relationships in PCL Foaming. Journal of Cellular Plastics, 2008, 44, 37-52.   | 1.2 | 21        |
| 103 | CONTROLLED PREPARATION OF POROUS SCAFFOLDS BY GAS FOAMING OF HETEROGENEOUS BLENDS. AIP Conference Proceedings, 2008, , .   | 0.3 | 2         |
| 104 | TIMESCALES IN BUBBLE NUCLEATION EVENTS FOR THE FORMATION OF MICROCELLULAR BIODEGRADABLE FOAMS. AIP Conference Proceedings, 2008, , .   | 0.3 | 0         |
| 105 | Thermoplastic Foams from Zein and Gelatin. International Polymer Processing, 2007, 22, 480-488.  | 0.3 | 37        |
| 106 | Foaming of Synthetic and Natural Biodegradable Polymers. Journal of Cellular Plastics, 2007, 43, 123-133.  | 1.2 | 40        |
| 107 | Design and preparation of 1/4-bimodal porous scaffold for tissue engineering. Journal of Applied Polymer Science, 2007, 106, 3335-3342.  | 1.3 | 33        |
| 108 | A predictive approach based on the Simhaâ€“Somcynsky free-volume theory for the effect of dissolved gas on viscosity and glass transition temperature of polymeric mixtures. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1863-1873. | 2.4 | 16        |

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|-----|---|-----|-----------|
| 109 | Structure development during crystallization of polycaprolactone. <i>Rheologica Acta</i> , 2006, 45, 387-392.   | 1.1 | 31        |
| 110 | Effect of Molecular Modification on PCL Foam Formation and Morphology of PCL. <i>Macromolecular Symposia</i> , 2005, 228, 219-228.  | 0.4 | 10        |
| 111 | Reactively Modified Poly(lactic acid): Properties and Foam Processing. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 1083-1090.  | 1.7 | 192       |
| 112 | Poly(lactic acid)/organoclay nanocomposites: Thermal, rheological properties and foam processing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 689-698.                   | 2.4 | 224       |
| 113 | Isothermal crystallization kinetics of chain-extended PET. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1966-1972.  | 2.4 | 27        |
| 114 | Structure optimization of polycaprolactone foams by using mixtures of CO <sub>2</sub> and N <sub>2</sub> as blowing agents. <i>Polymer Engineering and Science</i> , 2005, 45, 432-441.             | 1.5 | 110       |
| 115 | Characterization of Microcellular Biodegradable Polymeric Foams Produced from Supercritical Carbon Dioxide Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 1795-1803. | 1.8 | 52        |
| 116 | Isothermal crystallization in PCL/clay nanocomposites investigated with thermal and rheometric methods. <i>Polymer</i> , 2004, 45, 8893-8900.   | 1.8 | 139       |
| 117 | Nanocomposites by melt intercalation based on polycaprolactone and organoclay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 670-678.                                      | 2.4 | 185       |
| 118 | Sorption Thermodynamics and Mutual Diffusivity of Carbon Dioxide in Molten Polycaprolactone. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 4398-4405.                          | 1.8 | 37        |
| 119 | Heterogeneous bubble nucleation in PCL/clay nanocomposite foams. <i>Plastics, Rubber and Composites</i> , 2003, 32, 313-317.  | 0.9 | 11        |
| 120 | The Foaming Process of Biodegradable Polyesters. , 2003, , 273-287.   |     | 0         |
| 121 | Preparation and Characterization of Polyurethane Porous Membranes by Particulate-leaching Method. <i>Frontiers in Forests and Global Change</i> , 2001, 20, 321-338.                                | 0.6 | 15        |