

Polymer Chemistry

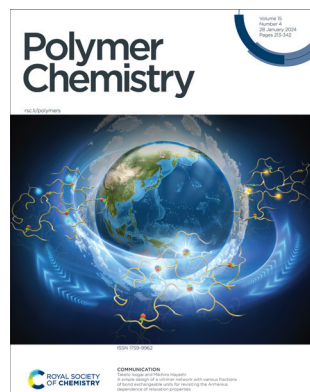
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Cover

See Taketo Isogai and Mikihiro Hayashi, pp. 269–275.

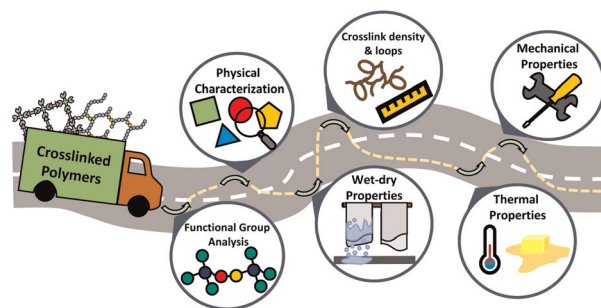
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TUTORIAL REVIEW

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Educational series: characterizing crosslinked polymer networks

Chamoni W. H. Rajawasam, Obed J. Dodo, M. A. Sachini N. Weerasinghe, Ibrahim O. Raji, Shiwanka V. Wanasinghe, Dominik Konkolewicz* and Nethmi De Alwis Watuthantrige*

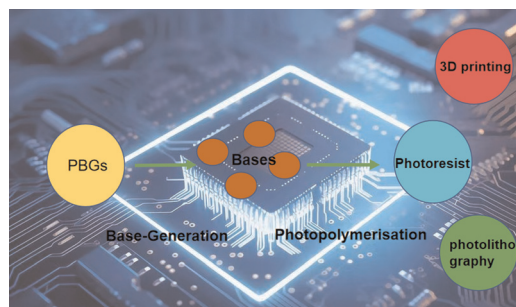


REVIEW

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Photopolymerization activated by photobase generators and applications: from photolithography to high-quality photoresists

Han-Wen Pei, Kai Ye, Yizhi Shao, Dan Chen, Zhao-Yan Sun, Tao Gong,* Dandan Liu* and Ke Sun*



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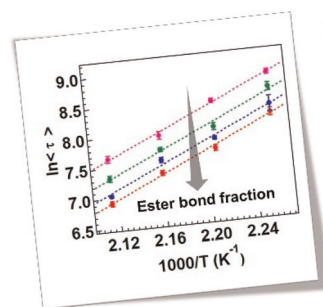
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COMMUNICATION

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A simple design of a vitrimer network with various fractions of bond exchangeable units for revisiting the Arrhenius dependence of relaxation properties

Taketo Isogai and Mikihiro Hayashi*



Reaction rate equation

$$k = A \exp\left(-\frac{E_a}{RT}\right)$$



Arrhenius equation of vitrimers

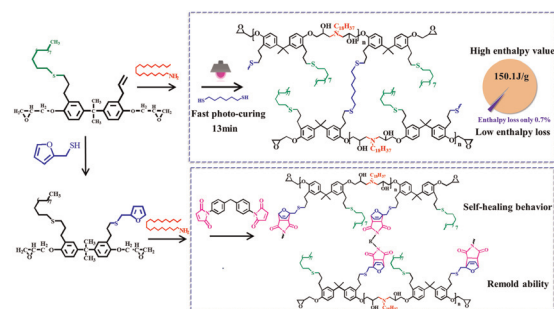
$$\tau = \tau_0 \exp\left(\frac{E_a}{RT}\right)$$

PAPERS

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Adjustable comb/bottlebrush fast UV-curable epoxy-based form-stable phase change materials with high encapsulation rates and ultralow enthalpy loss

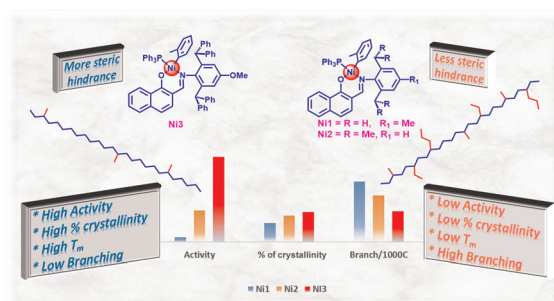
Yu Fan, Yanyun Li, Xinyuan Tang, Junying Zhang, Jue Cheng* and Qingsong Lian*



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Regulating the polyethylene microstructure by increasing steric crowding in naphthoxy imine-ligated Ni(II) complexes

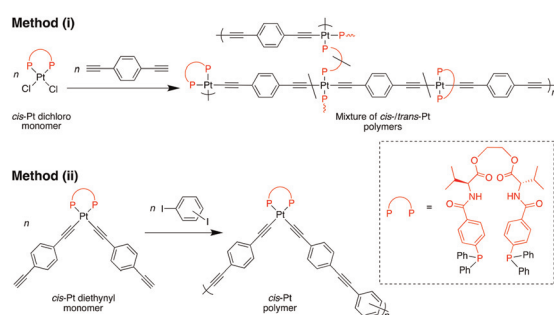
Rajkumar S. Birajdar, Rajesh G. Gonnade and Samir H. Chikkali*



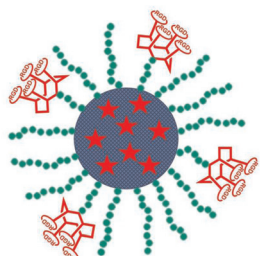
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Synthesis of geometry-controlled platinum-containing polymers bearing optically active bidentate phosphine ligands

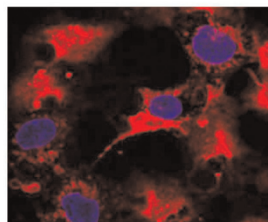
Takashi Horiuchi, Soya Makino, Natsuhiko Sano, Hiromitsu Sogawa and Fumio Sanda*



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PISA-RAFT nanoparticles decorated with cRGD peptide clusters

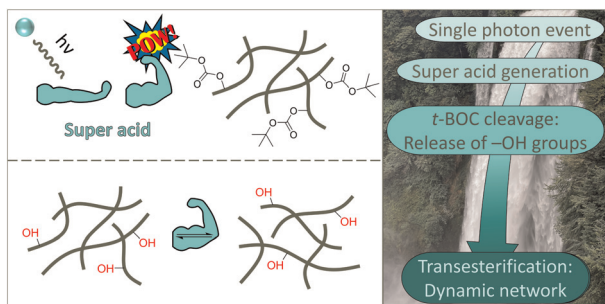


Selective targeting of integrin-expressing cells

Synthesis of cRGD peptide cluster-decorated NIR-fluorescent PISA-RAFT nanoparticles targeting integrin expressing cells

Damien Duret, Adrien Grassin, Maxime Henry, Pierre Alcouffe, Sebastian Raja, Carlos Baleizão, José Paulo Farinha, Marie-Thérèse Charreyre, Didier Boturyn, Jean-Luc Coll and Arnaud Favier*

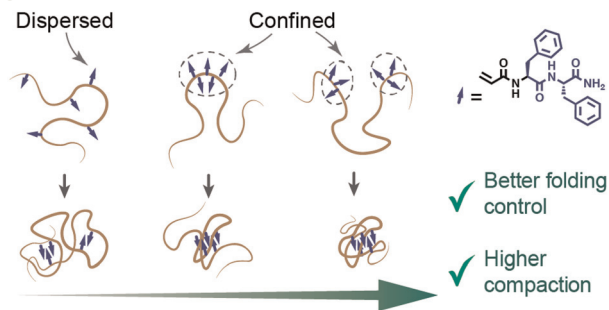
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The use of a sulfonium-based photoacid generator in thiol-ene photopolymers for the controlled activation of transesterification through chemical amplification

Walter Alabiso, Yang Li, Joost Brancart, Guy Van Assche, Elisabeth Rossegger* and Sandra Schlögl*

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Confinement of folding motifs within central blocks improves single chain polymer nanoparticle folding

Shegufta Farazi, Martina H. Stenzel* and Robert Chapman*

- ✓ Better folding control
- ✓ Higher compaction

