

**Polymer Vol. 51, No. 9, 20 April 2010**

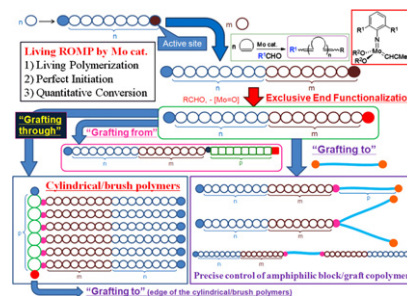
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**POLYMER COMMUNICATION**

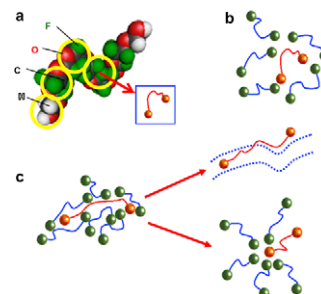
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Myung S. Jhon<sup>a, b</sup>, Hyoung Jin Choi<sup>c, \*</sup>

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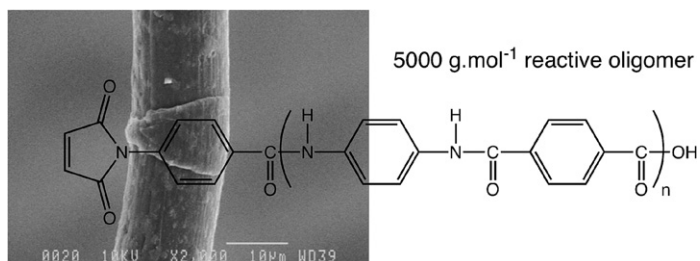
<sup>c</sup> Department of Polymer Science and Engineering, Inha University, Incheon 402-751, Republic of Korea



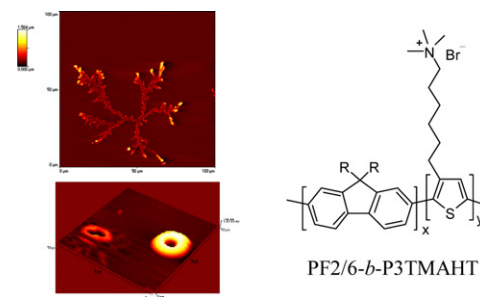
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Alwin Knijnenberg<sup>a</sup>, Johan Bos<sup>b</sup>, Theo J. Dingemans<sup>a,\*</sup><sup>a</sup> Delft University of Technology, Faculty of Aerospace Engineering, Kluyverweg 1, 2629 HS Delft, The Netherlands<sup>b</sup> Teijin Aramid B.V., Research Institute, P.O. Box 9300, 6800 SB Arnhem, The Netherlands**Cationic fluorene-thiophene diblock copolymers: Aggregation behaviour in methanol/water and its relation to thin film structures**

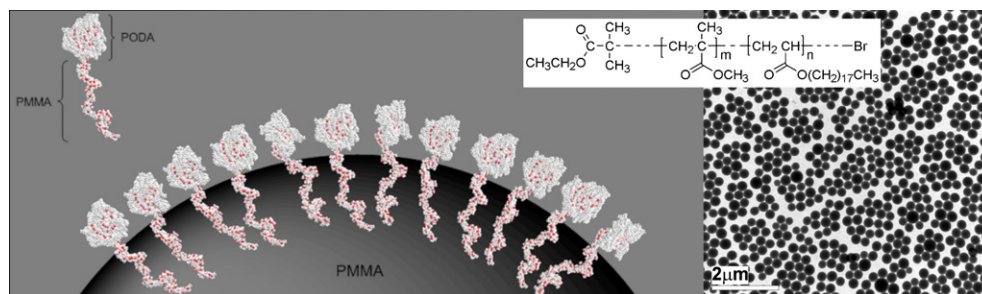
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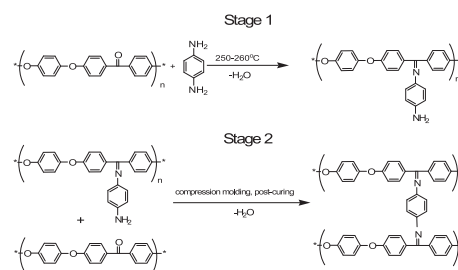
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Hazel V. Penfold, Simon J. Holder<sup>\*</sup>, Beulah E. M<sup>c</sup>Kenzie

Functional Materials Group, School of Physical Sciences, University of Kent, Canterbury, Kent. CT2 7NH, UK

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Michael E. Yurchenko<sup>a</sup>, Jijun Huang<sup>b</sup>, Agathe Robisson<sup>c</sup>, Gareth H. McKinley<sup>b</sup>, Paula T. Hammond<sup>a,\*</sup><sup>a</sup> Massachusetts Institute of Technology, Department of Chemical Engineering, 77 Massachusetts Ave., Cambridge, MA 02139, USA<sup>b</sup> Massachusetts Institute of Technology, Department of Mechanical Engineering, 77 Massachusetts Ave., Cambridge, MA 02137, USA<sup>c</sup> Schlumberger Doll Research, 1 Hampshire St, Cambridge, MA 02139, USA

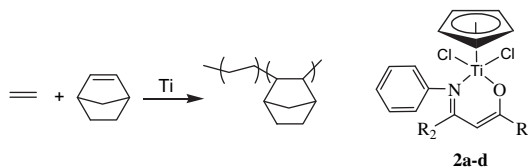
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San-Rong Liu<sup>a,b</sup>, Bai-Xiang Li<sup>a,b</sup>, Jing-Yu Liu<sup>a,\*</sup>, Yue-Sheng Li<sup>a</sup>

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<sup>b</sup> Graduate School of the Chinese Academy of Sciences, Changchun Branch, Changchun 130022, PR China

a:  $R_1 = \text{Cy}$ ,  $R_2 = \text{CF}_3$ b:  $R_1 = t\text{Bu}$ ,  $R_2 = \text{CF}_3$ c:  $R_1 = \text{Ph}$ ,  $R_2 = \text{CF}_3$ d:  $R_1 = t\text{Bu}$ ,  $R_2 = \text{CH}_3$ 

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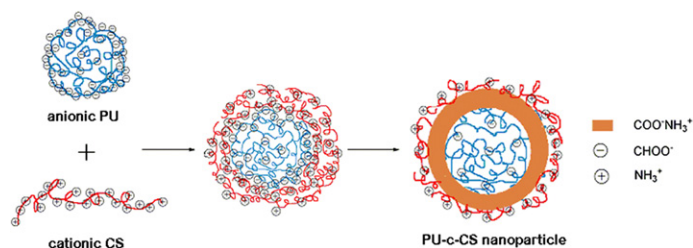
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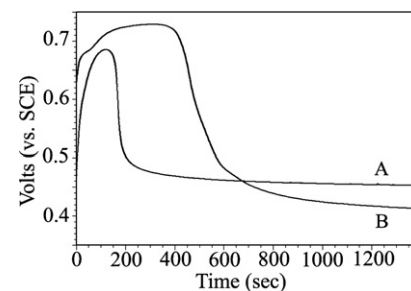


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Guicun Li<sup>\*</sup>, Chuanqin Zhang, Yingmei Li, Hongrui Peng, Kezheng Chen<sup>\*</sup>

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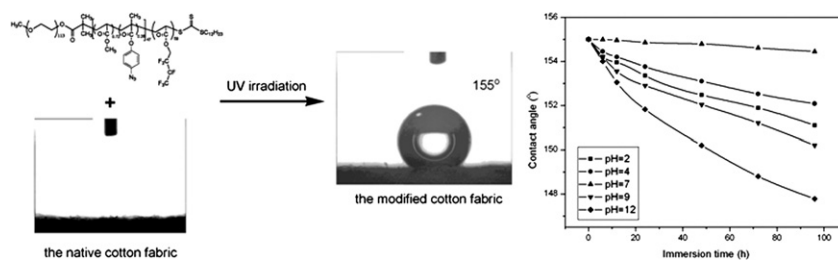


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Guang Li, Haiting Zheng, Yanxue Wang, Hu Wang, Qibao Dong, Ruke Bai<sup>\*</sup>

CAS Key Laboratory of Soft Matter Chemistry, Department of Polymer Science and Engineering, University of Science and Technology of China, Hefei 230026, PR China

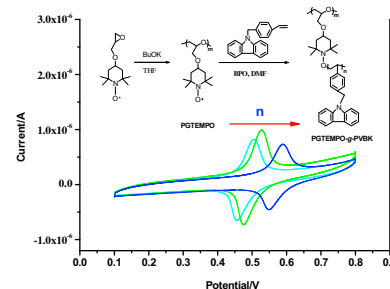


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Cheng Chang, Jian Zhu, Zhengbiao Zhang, Nianchen Zhou, Zhenping Cheng, Xiulin Zhu\*

Key Laboratory of Organic Synthesis of Jiangsu Province, College of Chemistry, Chemical Engineering and Materials Science, Soochow (Suzhou) University, Suzhou 215123, PR China

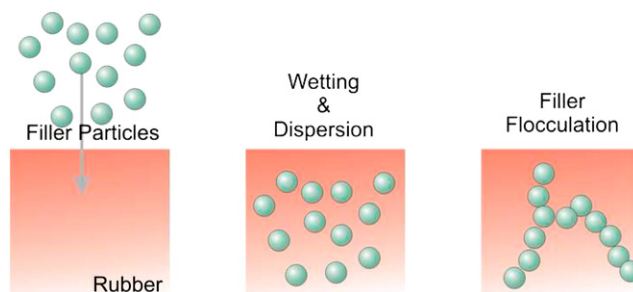


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Klaus Werner Stöckelhuber\*, Amit Das, René Jurk, Gert Heinrich

Leibniz-Institut für Polymerforschung Dresden e.V., Hohe Str. 6, D-01069 Dresden, Germany

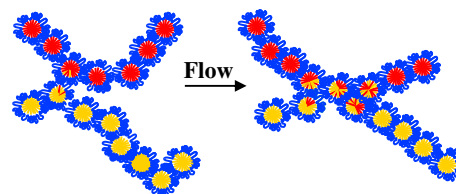


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Ji Wang, Lazhar Benyahia, Christophe Chassenieux\*, Jean-François Tassin, Taco Nicolai

Polymères, Colloïdes, Interfaces UMR CNRS 6120, Université du Maine, Avenue Olivier Messiaen, 72085 Le Mans cedex 09, France



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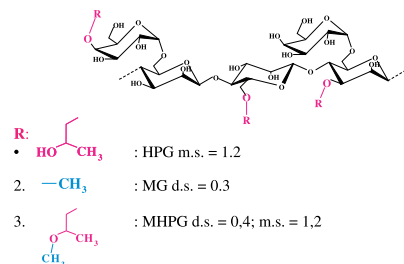
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Daniela Risica<sup>a</sup>, Andrea Barbetta<sup>a</sup>, Luca Vischetti<sup>a</sup>, Cesare Cametti<sup>b,c</sup>, Mariella Dentini<sup>a,\*</sup>

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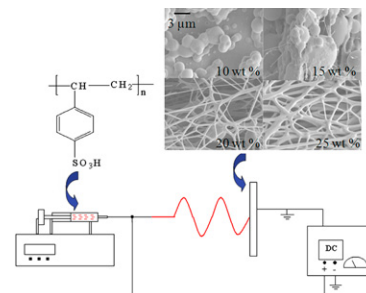
<sup>b</sup> Department of Physics, University of Rome "La Sapienza", Rome, Italy

<sup>c</sup> INFN-CNR CRS-SOFT, Italy



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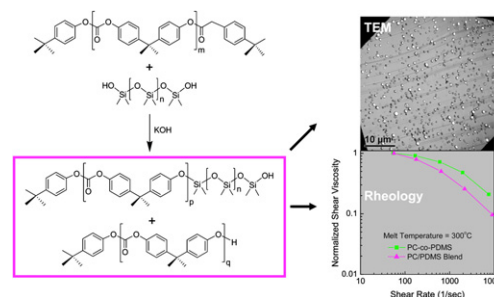
Chitrabala Subramanian<sup>a</sup>, R.A. Weiss<sup>a,b,c</sup>, Montgomery T. Shaw<sup>a,b,\*</sup><sup>a</sup> Polymer Program, Institute of Materials Science, University of Connecticut, Storrs, CT 06269, USA<sup>b</sup> Department of Chemical, Materials and Biomolecular Engineering, Chemical Engineering Program, University of Connecticut, Storrs, CT 06269, USA<sup>c</sup> Department of Polymer Engineering, The University of Akron, Akron, OH 44325, USA

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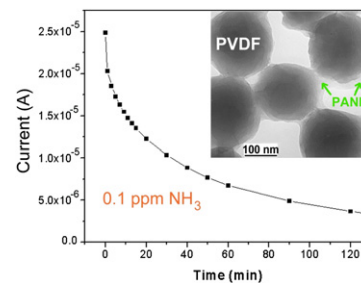
Weijun Zhou<sup>\*</sup>, John Osby

The Dow Chemical Company, Core R&amp;D – Materials Science and Engineering, 2301 N. Brazosport Blvd., B-1470, Freeport, TX 77541, USA



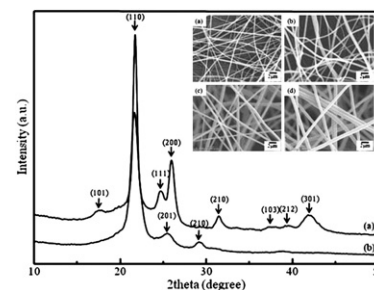
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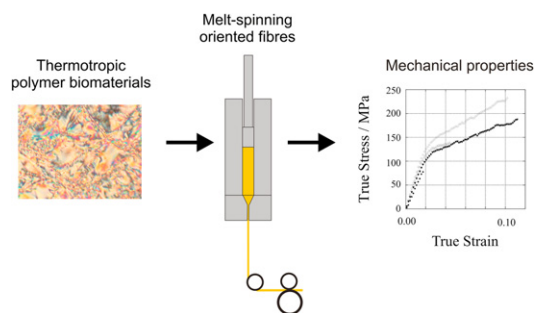
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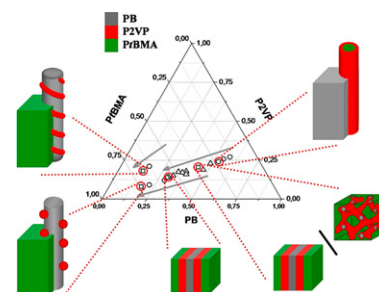
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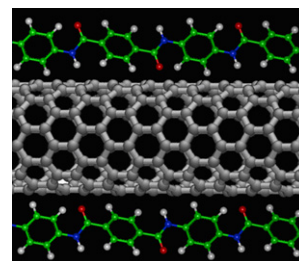
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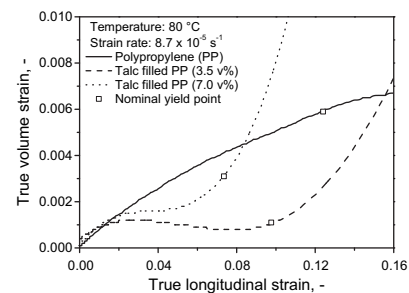
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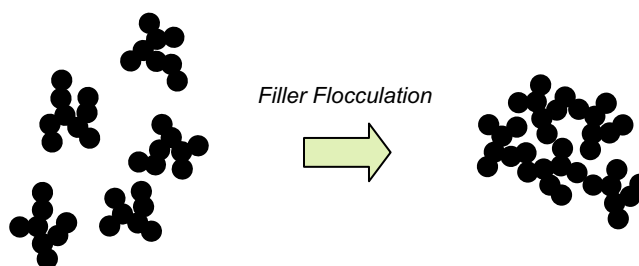
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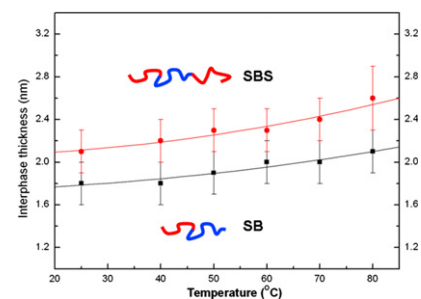
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G.A. Bohm<sup>\*</sup>, W. Tomaszewski, W. Cole, T. Hogan

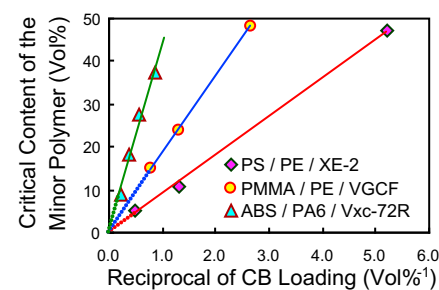
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Qinghua Jin<sup>a</sup>, Datong Ding<sup>a</sup><sup>a</sup> College of Physics, Nankai University, Tianjin, 300071, China<sup>b</sup> Key Laboratory of Functional Polymer Materials, Ministry of Education, Institute of Polymer Chemistry  
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Guozhang Wu<sup>\*</sup>, Bingpeng Li, Jiandi JiangShanghai Key Laboratory of Advanced Polymeric Materials, School of Materials Science & Engineering,  
East China University of Science & Technology, Shanghai 200237, PR China

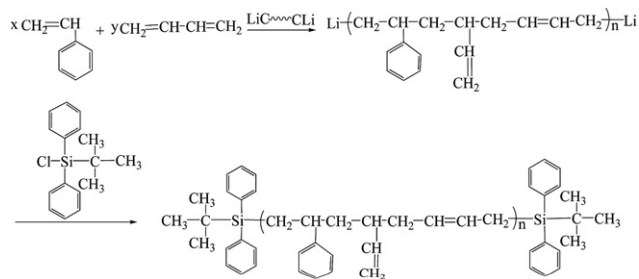
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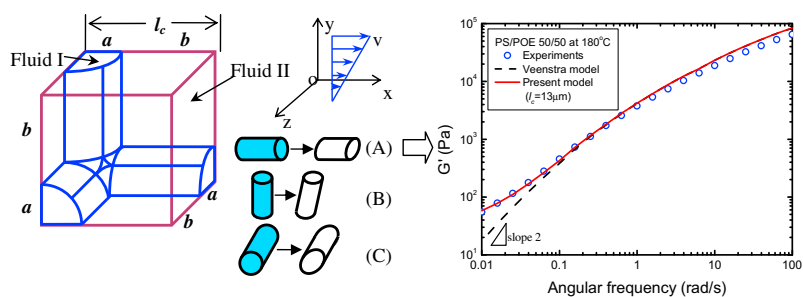


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Wei Yu<sup>\*</sup>, Wei Zhou, Chixing Zhou

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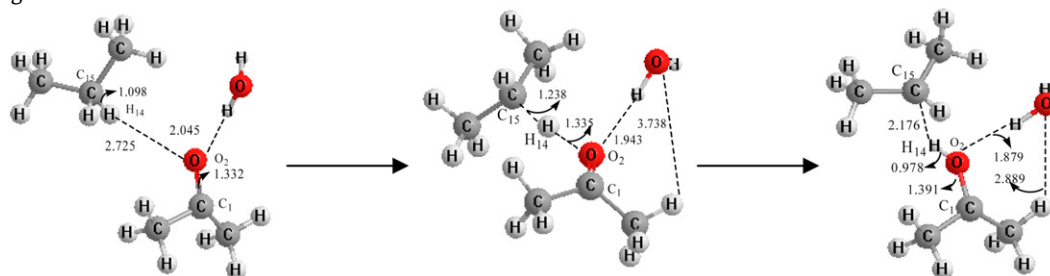


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Aili Zhao, Zonghe Li, Huiliang Wang<sup>\*</sup>

College of Chemistry, Beijing Normal University, Beijing 100875, China



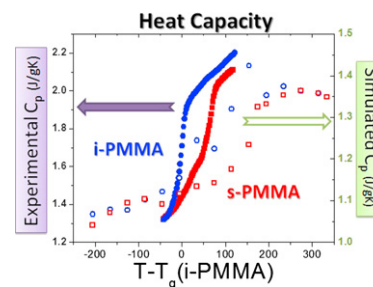
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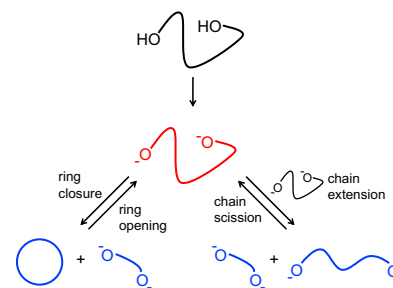
<sup>b</sup> Laboratoire d'ingénierie des matériaux de Bretagne (LIMATB), Université de Bretagne Sud, Centre de Recherche, rue Sainte Maudé, 56321 Lorient Cédex, France





**Cyclic poly(dimethylsiloxane) from kinetically controlled cyclodepolymerization of linear precursors in dilute solution** pp 2112–2118

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 Li, G. 1934  
 Li, Guang 1940  
 Li, Y. 1934  
 Li, Y.-S. 1921  
 Li, Z. 2099  
 Lin, H. 2069  
 Liu, J.-Y. 1921  
 Liu, S.-R. 1921  
 Lovell, C. S. 2013
- McKenzie, B. E. 1904  
 Ma, L. 2049  
 Major, Z. 2040  
 McKinley, G. H. 1914  
 Metatla, N. 2106  
 Móczó, J. 2040  
 Montes de Oca, H. 2013  
 Müller, A. H. E. 2021
- Neelgund, G. M. 2000  
 Nicolai, T. 1964  
 Nomura, K. 1861
- Ohsawa, O. 2007  
 Osby, J. 1990
- Penfold, H. V. 1904  
 Peng, H. 1934  
 Picken, S. 2033  
 Pina, J. 1898  
 Pud, A. A. 2000  
 Pukánszky, B. 2040
- Reber III, R. 2049  
 Renner, K. 2040  
 Ries, M. E. 2013
- Risica, D. 1972  
 Robisson, A. 1914
- Said, S. 2106  
 Schacher, F. 2021  
 Scherf, U. 1898  
 Schoberth, H. G. 2021  
 Seixas de Melo, J. 1898  
 Shaw, M. T. 1983  
 Soldera, A. 2106  
 Stöckelhuber, K. W. 1954  
 Subramanian, C. 1983  
 Sun, P. 2069
- Tassin, J.-F. 1964  
 Tomaszewski, W. 2057
- Valente, A. J. M. 1898  
 van der Zwaag, S. 2033  
 Vischetti, L. 1972
- Wang, H. 1940  
 Wang, Huiliang 2099  
 Wang, J. 1964  
 Wang, L. 2084  
 Wang, Y. 1940  
 Ward, I. M. 2013  
 Weiss, R. A. 1983  
 Wu, G. 2077  
 Wu, K. 1926
- Xi, K. 1926  
 Xu, D. 1926
- Young, R. J. 2033  
 Yu, W. 2091  
 Yu, X. 1926  
 Yuan, J. 2021  
 Yurchenko, M. E. 1914
- Zhang, C. 1934  
 Zhang, Q. 1926  
 Zhang, X. 2084  
 Zhang, Z. 1947  
 Zhao, A. 2099  
 Zhao, J. 2049  
 Zhao, S. 2084  
 Zheng, H. 1940  
 Zhou, C. 2091  
 Zhou, N. 1947  
 Zhou, W. 1990  
 Zhou, Wei 2091  
 Zhu, J. 1947  
 Zhu, X. 1947