

Curriculum Vitae *(dec 2017)*

CRETON Costantino

Current Position:

- *Directeur de Recherche CNRS* 1^{ere} classe (equivalent to Full Professor) at the laboratory of Soft Matter Science and Engineering of the [ESPCI Paris](#).

Former positions:

- Research Assistant, EPFL, Switzerland, Department of Materials Science (1985–1986)
- Research Assistant, Cornell University, USA, Department of Materials Science and Engineering (1986–1991)
- Visiting Scientist, IBM Almaden Research Center, USA (1992–1993)
- Post-Doctoral Fellow, ESPCI, France, Laboratory of Physico-Chemistry of Macromolecules (1993–1994)
- Chargé de Recherche CNRS 1st class, 1994–2001
- Directeur de Recherche CNRS 2nd class, 2001–2010

Tel: +33 1 40 79 46 83

Email: Costantino.Creton@espci.fr

Web : <http://ccreton.simm.espci.fr/>

| | |
|------|---|
| 1985 | Engineering Diploma in Materials Science, EPFL Lausanne, Switzerland |
| 1991 | Ph. D. Department of Materials Science & Engineering, Cornell University, USA |
| 1999 | Habilitation in Physics, Université Pierre et Marie Curie, Paris, France |

Scientific Prizes and Honors:

| | |
|------|--|
| 2000 | Adhesion Society meeting (USA), best paper award |
| 2002 | Polymer Prize of the French Polymer Group |
| 2007 | Prix Dédale (senior) of the French Adhesion Society |
| 2008 | Polymer Physics Prize of the Journal of Polymer Science: Polymer Physics (USA) |
| 2011 | Wake Medal of the UK Society of Adhesion and Adhesives (UK) |
| 2013 | Prize for Excellence in Adhesion Science, The Adhesion Society (USA) |
| 2013 | Fellow of the American Physical Society |
| 2016 | ERC Advanced Grant |
| 2016 | Distinguished Professor of Hokkaido University, Japan |

Community Service

2008–2013: Director of International relations of ESPCI ParisTech

Since 2011 : Scientific Chairman (Technology Area Performance Polymers) for the Dutch Polymer Institute (Netherlands).

2013–2017 : President of the French Adhesion Society

2016–2021 : French Leader of the [Global Station of Soft Matter](#), Sapporo, Japan

Representative Publications

1. Creton, C., *50th Anniversary Perspective: Networks and Gels: Soft but Dynamic and Tough*. **Macromolecules**, 2017. **50**(21): p. 8297-8316.
2. Creton, C. and M. Ciccotti, *Fracture and Adhesion of Soft Materials*. **Reports On Progress In Physics**, 2016. **79**(4): p. 046601.
3. Ducrot, E., et al., *Toughening Elastomers with Sacrificial Bonds and Watching them Break*. **Science**, 2014. **344**(6180): p. 186-189.
4. Mayumi, K., et al., *Stress–Strain Relationship of Highly Stretchable Dual Cross-Link Gels: Separability of Strain and Time Effect*. **ACS Macro Letters**, 2013. **2**(12): p. 1065-1068.
5. Zhang, H., et al., *Nanocavitation in Carbon Black Filled Styrene–Butadiene Rubber under Tension Detected by Real Time Small Angle X-ray Scattering*. **Macromolecules**, 2012. **45**(3): p. 1529-1543.
6. Sudre, G., et al., *Reversible adhesion between a hydrogel and a polymer brush*. **Soft Matter**, 2012. **8**(31): p. 8184 - 8193.
7. Lin, W.C., et al., *Large Strain and Fracture Properties of Poly (dimethyl acrylamide)/silica Hybrid Hydrogels*. **Macromolecules**, 2010. **43**: p. 2554-2563.

