**Prof. RNDr. Josef Jančář, CSc (\*1957)**

Professor of Macromolecular Chemistry (1997-)

Adjunct Professor Polymer Program, University of Connecticut, USA (1999-)

Director, Institute of Materials Chemistry, Brno University of Technology, CZ (1998-)

Leader, Advanced Polymers and Composites Research Group, CEITEC, Brno, CZ (2011-)

**RNDr.** solid state physics, Masaryk University Brno, CZ (1983)

**CSc**  macromolecular chemistry, Czech Academy of Sciences, Prague, CZ (1988)

**Associate Professor,** materials science**,** University of Connecticut, USA (1992-1994)

**Associate Professor**, macromolecular chemistry, Brno University of Technology, (1994-1997)

**University Professor**, macromolecular chemistry, Brno University of Technology, (1997-)

**Adjunct Professor**, Polymer Program, UCONN Graduate School, USA (1999-)

**Vice Rector for Research**, Brno University of Technology, 2000-2006

**Awards:** 2000 Czech Society for Sciences Senior Award for discoveries and achievements in research of heterogeneous polymers,

2012 Czech Ministry of Education, Youth and Sports Annual Award for Research Excellence

**Publications:** 229 papers (212 Web of Sscience), 6 books (4 textbooks), 13 chapters in books, 7 patents, 4 patents pending

**Invited lectures 1990-2017:** 49

**Invited lectures 2013-2017:** 17

**Research interests**: Structure-property relationships in hierarchical polymer systems, viscoelastic and non-linear deformation behavior and fracture phenomena, interphase/interface phenomena, nanocomposites, biomaterials

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| --- | --- | --- | --- | --- |
| **Citation Report** | **Articles WoS** | **Articles WoS**  **(2014 – 2018)** | **Times Cited** | **h-index** |
| 201 | 30 | 3982 | 31 |

**Selected publications 2013-2016:**

1. Zidek J, Milchev A, Jancar J, Vilgis T, *J Mech Phys Solids* **2016**, 94, 372-387
2. Ondreas F, **Jancar J**, *Macromolecules* **2015**, 48, 4702-4716
3. **Jancar J**, Zidek J, *Eur Polym J* **2015**, 71, 221-230
4. **Jancar J**, Hoy RS, Jancarova E, Zidek J, *Polymer* **2015**, **63**, 196

Prosecka E, Rampichova M, Litvinec A, Tonar Z, Kralickova M, Vojtova L, Kochova P, Plencner M, Buzgo M, Mickova A, **JancarJ**, Amler E., *J Biomed Mat Res Part A* **2015**, 103, 671-682

1. Zidek J, **Jancar J,** Milchev A, Vilgis TA, *Macromolecules* **2014**, **47**, 8795
2. A.M.Abdel-Mohsen, R. M. Abdel-Rahman, M. M.G. Fouda, L. Vojtova, L. Uhrova, A.F.Hassan,S. S. Al-Deyab, I. E. El-Shamy, **J. Jancar**, *Carbohydrate Polym* **2014**, **102**, 238–245
3. Přichystalová H, Almonasy N, A.M. Abdel-Mohsen, R. M. Abdel-Rahman, M. M.G. Fouda, L. Vojtova, L. Kobera, Z. Spotz, L. Burgert, **J. Jancar** *, Int J Biol Macromol* **2014**, **65,** 234-240
4. **Jancar J**, Tochacek J., *Macromol. Symp.* **2013**, **330**, 166–176
5. **Jancar J**., Hoy R.S., Lesser A. J., Jancarova E., Zidek J., *Macromolecules*, **2013**, **46**, 9409-9426
6. **Jancar J**., Balkova R., *Polym Eng Sci* **2013**, **53**, 2696-2704
7. Poláček P, Salajková M, **Jancar J**, *Comp Sci Technol* **2013**, **77**, 22

**Chapters in Books 2013-2017:**

1. Jancar J, Self-assembly of hierarchical composite superstructures, in Friedrich K., Breuer U. Eds, *Multifunctionality in polymer composites*, Elsevier, London, 2015

**Editorial Boards**:

Polymer Engineering and Science, Board Member, 1998-

Polymer Composites, Board Member, 1998-

Journal of Composite Materials, Board member, 2009-

World Journal of Nano Science and Engineering, Board Member, 2010-

Journal of Encapsulation and Adsorption Sciences, Board Member, 2011-

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| **Period** | **Grant provider** | | **Role in project** | | **Budget**  **(€)** | | **Topic** | |
| 1992-1994 | | US NIH | | co-PI | | 0.9 Mio | | Use of fiber reinforced composites in dentistry | |
| 1995-1996 | | Czech Grant Agency | | PI | | 0.1 Mio | | Solid state sulphonation of polystyrene | |
| 1996-1999 | | Czech Grant Agency | | PI | | 0.4 Mio | | Interface/interphase phenomena in thermoplastic fiber reinforced composites | |
| 1999-2012 | | Czech Ministry of  Education | | PI | | 10 Mio | | Homogeneous and heterogeneous materials based on synthetic polymers and biopolymers | |
| 2007-2009 | | Czech Ministry of  Industry and Trade | | co-PI | | 0.7 Mio | | Smart nanocomposite coatings | |
| 2008-2013 | | NRP | | co-PI | | 3.2 Mio | | Use of nanostructured scaffolds and mesenchymal stem cells in engineering of bone and cartilage | |
| 2009-2011 | | Czech Grant Agency | | PI | | 0.2 Mio | | Effect of thermal history on structure and deformation behavior of multiphase copolymers | |
| 2011-2015 | | FP7 EC | | co-PI | | 4.0 Mio | | Synergies between Life and Materials Sciences | |
| 2015-2017 | | Czech Grant Agency | | PI | | 0.23 Mio | | Self-assembly of nanoparticles in polymer nanocomposites | |
| 2018-2020 | | Czech Grant Agency | | PI | | 0.21 Mio | | Lightweight functional materials | |