

## CV – Cecilia Persson

*Professor in Materials Science*

*Head of Division, Biomedical Engineering*

*Section Dean Engineering, Uppsala University*

*President, the Scandinavian Society for Biomaterials*

*Director, Competence Centre in Additive Manufacturing for the Life Sciences*

*Coordinator, EU MSCA Innovative Training Network NU-SPINE*



*Date of birth:* December 24, 1980

*Parental leave:* 16.5 months

*Nationality:* Swedish

*Web site:* <https://www.materialvetenskap.uu.se/bms/>

## SUMMARY OF ACHIEVEMENTS

- **120** peer-reviewed, international journal publications
  - 67 papers, i.e. 56%, as first- or last author
  - 110 papers, i.e. 92%, without former PhD supervisors
- Nr of citations: 2981; **H-index: 30**, H<sub>10</sub>:79 (Google Scholar, 2023-03-02)
- Scholar Registry: <https://scholar.google.se/citations?user=ARzHcV4AAAAJ&hl=en>



## Awards

**Scientific Awards:** The Thuréus Prize of The Royal Society of Sciences at Uppsala (2022); 100-list of the Royal Swedish Academy of Engineering Sciences, with AM4Life (2022); Göran Gustafsson Foundation Big Prize to Young Researchers (2017); Göran Gustafsson Foundation Small Prize to Young Researchers (2014); Excellent Abstract, Cowin Tribute Session, European Society for Biomechanics (2017); Best Poster, Swedish Society for Medical Engineering (2015); Best Poster, 7<sup>th</sup> Australasian Biomechanics Conference (2009).

**Innovation Awards:** Peter Egardt Award for Entrepreneurship and Innovation (2019); Bona Postulata Award, Inossia AB (2018); UU Innovation Project (2017)

**Funding:** Main applicant: >18M€. Sources: EU, EIT, Swedish Research Council, VINNOVA, KVA etc.

## EDUCATION

- 2009 **PhD in Mechanical Engineering, spec. Spine Biomechanics (Marie Curie Fellow)**  
Institute of Medical and Biological Engineering (iMBE), University of Leeds, UK  
*PhD Supervisor:* Prof. Richard Hall, *Assistant supervisor:* Prof. Jon Summers
- 2004 **MSc in Materials Engineering, spec. Biomaterials (European Triple Degree, EEIGM)**  
Luleå University of Technology (Sweden); EEIGM, Lorraine University of Technology (France); and Technical University of Catalonia (Spain). Thesis work performed at Istituto Ortopedico Rizzoli (Italy) and examined at UPC, Spain.

## CURRENT POSITION(S)

- 2018 – **Professor in Applied Materials Science**, Dept. of Materials Science and Engineering, Uppsala University, Sweden. Chosen to give the inauguration lecture for the Faculty of Science and Technology, from minute 21:30: <https://media.medfarm.uu.se/play/kanal/439/video/8337>  
*Uppsala University was founded in 1477 and is one of the most prestigious universities in the Nordic countries (ranked 3<sup>rd</sup> nationally, 20<sup>th</sup> in the EU and 77<sup>th</sup> in the world in the ARWU).*
- 2020 – 2025, **Director**, VINNOVA Competence Centre in Additive Manufacturing for the Life Sciences
  - 2019 – 2022, **Coordinator**, EU MSCA Innovative Training Network NU-SPINE – New materials and implants for the spine
- 2013 – **Co-founder** and CSO (2013-2020), later Member of the board (2020-), Inossia AB, Sweden.  
*Co-inventor on patent forming the basis of the company.*

## PREVIOUS POSITIONS

- 2015 – 2018 **Associate Professor**, Dept. Engineering Sciences, Uppsala University, Sweden
- 2011 – 2015 **Assistant Professor** (tenure track), Dept. Engineering Sciences, Uppsala University, Sweden
- 2009 – 2011 **Researcher**, Dept. Engineering Sciences, Uppsala University, Sweden
- 2006 – 2009 **PhD student**, Institute for Medical and Biological Engineering (iMBE), University of Leeds, UK. *The iMBE is one of the world's top 10 bioengineering research institutes.*
- 2005 – 2006 **Researcher**, Istituto Ortopedico Rizzoli (IOR), Bologna, Italy. *The IOR is a centre of excellence in orthopedics and traumatology - 1<sup>st</sup> in Italy on hip and knee replacements.*

## FELLOWSHIPS

- 2011 – 2014 Marie-Sklodowska Curie VINNMER Fellow, EU (Uppsala)  
2010 – 2013 Marie Curie Re-integration Grant, EU (Uppsala)  
2006 – 2009 Marie Curie ESR Fellow, EU (Leeds)

## SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2011 – **11 Postdocs**, Uppsala University, Sweden. *Topics in biomaterials (5), biomechanics (4) and biological characterization (2). 2 of these in AM. Previous post-docs now working in academia (9) or at a research institute (1).*
- 2010 – **16 PhD students as main supervisor** (8 graduated). *Topics in biomaterials (10), biomechanics (4) and biological characterization (1). 5 of these in AM.*  
**12 PhD students as co-supervisor** (5 graduated), Uppsala University, Sweden. *Topics in biomaterials (6), biomechanics (3) and biological characterization (1). Previous PhD students are now working in academia (3) or in R&D in industry (9).*
- 2010 – **13 MSc students** (13 graduated), Uppsala University, Sweden

## TEACHING ACTIVITIES

- 2011 – **Lecturer, Uppsala University, Sweden**  
*Current undergraduate course responsibility:* Biomaterials I, Additive Manufacturing in Medicine, Materials Science for Biomedical Engineering (all 5 ECTS credit courses)  
*Postgraduate courses given (examples):* Biomaterials Synthesis and Characterization (4 ECTS), Practical statistics (5 ECTS), Writing & Reviewing in Biomaterials (3 ECTS)
- 2006 – 2009 **Postgraduate demonstrator, University of Leeds, UK:** Statistics for engineers.

## ORGANISATION OF SCIENTIFIC MEETINGS (examples)

- 2027 Main organizer, European Society for Biomaterials, Uppsala, Sweden, ~1000 participants
- 2021-2022 Co-organizer, AM of Metals, Swedish ARENA, ~70 participants
- 2020-2021 Main organizer, Scandinavian Society for Biomaterials, online, ~60 participants
- 2019, 2023 Co-organizer Healthcare Materials Track, EUROMAT, Sweden, ~1500 participants
- 2016 Co-organizer Tissue Engineering and Regenerative Medicine International Society (TERMIS), Sweden, ~900 participants

## INSTITUTIONAL RESPONSIBILITIES (main)

- 2020 – Dean of Engineering, Board of the Faculty of Science and Engineering, Uppsala University
- 2017 – 2020 Graduate Educational Board, Faculty of Science and Engineering, Uppsala University
- 2013 – 2015 Board of the Dept. of Engineering Sciences, Uppsala University
- 2011 – 2014 Equality Group, Dept. of Engineering Sciences, Uppsala University

## REVIEWING ACTIVITIES

- 2020 *Evaluation panel member*, Centres of Excellence, Spanish Research Council
- 2020 *Funding proposals review panel*, EU Marie Curie International Fellowships
- 2019 – 2020 *Funding proposals review panel*, Biomedical Engineering, Swedish Research Council
- 2017 - *Expert Evaluator of Tenure Track employments and promotions* at Uppsala University, KTH (Stockholm), Lund University
- 2012 - *Scientific Advisory Board / Reviewer at International Conferences:* European Society for Biomaterials (ESB), International Society for Biomechanics (ISB), GRIBOI, Bioceramics, TERMIS, Scandinavian Society for Biomaterials
- 2011 - *PhD examination committee member*, 11 PhDs at UPC (Barcelona), Uppsala, Lund, KTH, Linköping University, Chalmers University of Technology (Gothenburg)
- 2009 - *Reviewer* in International Scientific Journals, incl. Biomaterials (IF 12). Publons profile started in 2017: [publons.com/a/1272665/](https://publons.com/a/1272665/). *Editorial board member*, J Functional Biomaterials since 2019. *Guest Editor* in Materials 2020-2021: Additive Manufacturing of Biomaterials.

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2018 – **President** since 2019, Scandinavian Society for Biomaterials: <http://www.scsb.eu/>
- 2018 – 2021 Founding Member and Treasurer, Swedish Society of Biomechanics: <http://swebiomech.org/>
- 2018 - Member, European Society for Biomaterials, <https://www.esbiomaterials.eu/>
- 2015 – Member, European Society of Biomechanics, <https://esbiomech.org/>
- 2014 – Member, Marie Curie Alumni Association, <https://www.mariecuriealumni.eu/>

## PUBLICATION LIST

|                                                     |    |
|-----------------------------------------------------|----|
| Papers in peer-reviewed international journals..... | 1  |
| Conference contributions .....                      | 8  |
| Books and book chapters.....                        | 16 |
| Patents .....                                       | 17 |

### PAPERS IN PEER-REVIEWED INTERNATIONAL JOURNALS

120. Du X, Zhou Y, Li L, **Persson C**, Ferguson SJ. The porous cantilever beam as a model for spinal implants: Experimental, analytical and finite element analysis of dynamic properties. Accepted in Mathematical Biosciences and Engineering, 2023.

119. Correa Filho L, Fu L, Engqvist H, Xia W and **Persson C**, Wear performance of a new biocompatible silicon nitride for biomedical applications. Biomedical Materials and Devices, 2023.

118. Larsson L, Marattukalam JJ, Paschalidou E-M, Hjörvarsson B, Ferraz N, **Persson C**. Biocompatibility of a Zr-based metallic glass enabled by additive manufacturing. ACS Applied Bio Materials, 2022 5, 12, 5741–5753.

117. Geissel F, Platania V, de Berardinis N, Skjöldebrand C, Belibasakis GN, **Persson C**, Hulsart-Billström G, Chatzinikolaidou M, Sotiriou G. Nanostructured Ag-Bioglass Implant Coatings with Antibacterial and Osteogenic Activity. Accepted in Advanced Materials Interfaces.

116. Braesch-Andersen A, Wu D, Ferguson S, **Persson C**, Isaksson P. Synchrotron X-ray monitored fractures in human bone captured by digital volume correlation and phase field fracture theories at the trabecular level. J Mech Behav Biomed Mater, 2022.

115. Katsaros I, Zhou Y, Welch K, Xia W, **Persson C**, Engqvist H. Bioactive silicon nitride implant surfaces with maintained antibacterial properties. J Funct Biomater, 2022.

114. Åkerlund E, Diez-Escudero A, Grzeszczak A, **Persson C**. The Effect of PCL Addition on 3D-Printable PLA/HA Composite Filaments for the Treatment of Bone Defects. Polymers, 2022.

113. Ghandour S, Pazarlis K, Lewin S, Isaksson P, Försth P, **Persson C**. An ex-vivo Model for the Biomechanical Assessment of Cement Discoplasty. Frontiers in Bioengineering and Biotechnology, 2022.

112. Widhe M, Diez-Escudero A, Liu Y, Ringström N, Ginebra MP, **Persson C**, Hedhammar M, Mestres G. Functionalized silk promotes cell migration into calcium phosphate cements by providing macropores and cell adhesion motifs. Ceramics International, 2022.

111. Nilsson-Åhman H, Mellin P, D'Elia F, **Persson C**. Microstructural origins of the corrosion resistance of a Mg-Y-Nd-Zr alloy processed by PBF-LB. Accepted in Frontiers in Bioengineering and Biotechnology, 2022.

110. Skjöldebrand C, Echeverri Correa E, Hulsart-Billström G, **Persson C**. Tailoring the dissolution rate and in vitro cell response of silicon nitride coatings through combinatorial sputtering with chromium and niobium. Biomaterials Science, 2022, 10, 3757-3769.

109. Skjöldebrand C, Tipper JL, Hatto P, Bryant M, Hall RM, **Persson C**. Wear resistant coatings and surface treatments for articulating surfaces of hip and knee joint implants. Materials Today Bio, 2022.

108. Bojan AJ, Stadelmann VA, Sundh D, Wu D, Pujari-Palmer M, **Persson C**, Engqvist H, Procter P. A new bone adhesive candidate- does it work in human bone? An ex-vivo preclinical evaluation in fresh human femoral head bone. *Injury*, 2022.
107. Lewin S, Försth P, **Persson C**. Low-modulus PMMA has the potential to reduce stresses on endplates after cement discoplasty. *Journal of Functional Biomaterials*, 2022.
106. Nilsson-Åhman H, Thorsson L, Mellin P, Lindwall G, **Persson C**. An enhanced understanding of the Powder Bed Fusion – Laser Beam processing of Mg-Y3.9wt%-Nd3wt%-Zr0.5wt% (WE43) alloy through thermodynamic modeling and experimental characterization. *Materials*, 2022.
105. Wei Z, Romanovski V, Filho L, **Persson C**, Hedberg Y. Metal release from a biomedical CoCrMo alloy in mixed protein solutions under static and sliding conditions – effects of protein aggregation and metal precipitation. *J Bio- and Tribo-Corrosion*, 2021.
104. Dong Z, Wu D, Engqvist H, Luo J, **Persson C**. Silk fibroin hydrogels induced and reinforced by acidic calcium phosphate – A simple way of producing bioactive and drug-loadable composites for biomedical applications. *International Journal of Biological Macromolecules*, 2021.
103. Öhman Mägi C, Wu D, Holub O, Hall RM, **Persson C**. Density and mechanical properties of vertebral trabecular bone - a review. *JOR Spine*, 2021.
102. Wu D, van Dijk N P, Joffe T, Öhman Mägi C, Ferguson S J, **Persson C**, Isaksson P. A combined experimental and numerical method to estimate the elastic modulus of single trabeculae. *J Mech Behav Biomed Mater*, 2021.
101. Grzeszczak A, Lewin S, Eriksson O, Kreuger J, **Persson C**. The potential of stereolithography for 3D printing of synthetic trabecular bone structures. *Materials*, 2021.
100. Lewin S, Kihlström Burenstam Lindher L, Birgersson U, Gallinetti S, Åberg J, Engqvist H, **Persson C**, Öhman-Mägi C. Monetite-based composite cranial implants demonstrate long-term clinical volumetric balance by concomitant bone formation and degradation. *Acta Biomaterialia*, 2021.
99. Diez Escudero A, Andersson Brittmarie, **Persson C**, Hailer N. Hexagonal pore geometry and the presence of hydroxyapatite enhance deposition of mineralized bone matrix on additively manufactured polylactic acid scaffolds. *Mater Sci Eng: C*, 2021: <https://doi.org/10.1016/j.msec.2021.112091>
98. Robo C, Öhman-Mägi C, **Persson C**. Long-term mechanical properties of a new low-modulus bone cement for the treatment of osteoporotic vertebral compression fractures. *Journal of the Mechanical Behavior of Biomedical Materials*, Volume 118, June 2021, 104437.
97. Robo C, Wenner D, Ubhayasekera SJKA, Hilborn J, Öhman-Mägi C, **Persson C**. Functional Properties of Low-modulus PMMA Bone Cements Containing Linoleic Acid. *J Functional Biomaterials*, 2021, 12:5: <https://doi.org/10.3390/jfb12010005>.
96. Lewin S, Fleps I; Åberg J; Ferguson SJ; Engqvist H; Öhman-Mägi C; Helgason B; **Persson C**. Additively manufactured mesh-type titanium structures for cranial implants: E-PBF vs. L-PBF. *Materials & Design*, 2021: 197.
95. Lewin S, Fleps I, Neuhaus D, Öhman-Mägi C, Ferguson SJ, **Persson C**, Helgason B. Implicit and explicit finite element models predict the mechanical response of calcium phosphate-titanium cranial implants. *J Mech Behav Biomed Mater*, 2020, 112.

94. Diez-Escudero, Anna; Harlin, Hugo; Isaksson, Per; **Persson, Cecilia**. Porous polylactic acid scaffolds for bone regeneration: a study of additively manufactured triply periodic minimal surfaces and their osteogenic potential. Accepted in J Tissue Eng, 2020.
93. Wu D, Pujari-Palmer M, Bojan A, Palmquist A, Procter P, Öhman-Mägi C, Ferguson SJ, Isaksson P, **Persson C**. The effect of two types of resorbable augmentation materials -a cement and an adhesive - on the screw pullout resistance in human trabecular bone. JMBBM, 2020.
92. Skjöldebrand C, Hulsart-Billström G, Engqvist H, **Persson C**. Si-Fe-C-N coatings for biomedical applications: a combinatorial approach. Materials, 2020.
91. Correa Filho L, Schmidt S, Goyenola C, Skjöldebrand C, Engqvist H, Högberg H, Tobler M, **Persson C**. The effect of N, C, Cr, and Nb content on silicon nitride coatings for joint applications. Materials, 2020.
90. Lewin S, Åberg J, Neuhaus D, Engqvist H, Ferguson S, Öhman Mägi C, Helgason B, **Persson C**. Mechanical behavior of composite calcium phosphate-titanium cranial implants: Effects of loading rate and design. J Mech Behav Biomed Mater, Dec 2019.
89. Yang J, Chen S, Luo J, **Persson C**, Cölfen H, Welch K, Strømme M. Multifunctional polymer-free mineral plastic adhesives formed by multiple non-covalent bonds. ACS Applied Mater Sci Inter, 2020.
88. Wu D, Spanou A, Diez Escudero A, **Persson C**. 3D-printed PLA/HA composite structures as synthetic trabecular bone: a feasibility study using Fused Deposition Modelling. J Mech Behav Biomed Mater, 2019.
87. Correa Filho L, Schmidt S, López A, Cogrel M, Leifer K, Engqvist H, Högberg H, **Persson C**. The effect of coating density on functional properties of SiNx coated implants. Materials, 2019, 12, 3370.
86. Rothenbücher TSP, Ledin J, Gibbs DMR, Engqvist H, **Persson C**, Hulsart Billstrom G. Zebrafish (Danio rerio) as a replacement model for biomaterial studies. Acta Biomaterialia, 2019.
85. Diez-Escudero A, Torreggiani E, Di Pompo G, Espanol M, **Persson C**, Ciapetti G, Baldini N, Ginebra M-P. Effect of calcium phosphate heparinization on the in vitro inflammatory response and osteoclastogenesis of human blood precursor cells. Journal of Tissue Engineering and Regenerative Medicine, 2019.
84. Le B T, Filho L, Engqvist H, Håkan, Xia W, **Persson C**. Synthesis and assessment of metallic ion migration through a novel calcium carbonate coating for biomedical implants. J Biomed Mater Res Pt B: Applied Biomaterials, 2019.
83. van Dijk N, Wu D, **Persson C**, Isaksson P. A global digital volume correlation algorithm based on higher-order finite elements: Implementation and evaluation. International Journal of Solids and Structures, 2019, e-pub ahead of print.
82. Barba A, Diez-Escudero A, Espanol M, Rappe K, Fontecha P, Bonany M, Sadowska JM, Guillem-Marti J, Öhman-Mägi C, **Persson C**, Manzanares M-C, Franch J, Ginebra M-P. The impact of biomimicry in the design of osteoinductive bone substitutes: nanoscale matters. ACS Applied Materials and Interfaces, 2019.
81. Tkachenko S, Datskevich O, Kulak L, **Persson C**, Engqvist H. The effect of Al alloying on the microstructure and wear performance of Ti-Si-Zr alloys. J Tribology 2019, 141(4): 041604.
80. Luo J, Faivre J, Engqvist H, **Persson C**. The addition of poly(vinyl alcohol) fibres to apatitic calcium phosphate cement can improve its toughness. Materials, 2019, 12: 1531

79. Filho L, Schmidt S, Leifer K, Engqvist H, Högberg H, **Persson C**. Towards functional silicon nitride coatings for joint replacements. *Coatings*, 2019, 9, 73. In Special Issue: Tribology and Surface Engineering.
78. Luo J, Engqvist H, **Persson C**. A ready-to-use acidic calcium phosphate cement. *Acta Biomaterialia*, 2018, 81: 304-314.
77. Barba A, Maazouz Y, Diez-Escudero A, Rappe K, Espanol M, Montufar E, Öhman-Mägi C, **Persson C**, Fontecha P, Manzanares M-C, Franch J, Ginebra M-P. Osteogenesis by foamed and 3D-printed nanostructured calcium phosphate scaffolds: effect of pore architecture. *Acta Biomaterialia*, 2018, 79: 135-147.
76. Wu D, Isaksson P, Ferguson SJ, **Persson C**. Young's modulus of trabecular bone at the tissue level: A review. *Acta Biomaterialia* (invited submission), 2018, 17:1-12.
75. Robo C, Hulsart-Billström G, Nilsson M, **Persson C**. *In vivo* response to a low-modulus PMMA bone cement in an ovine model. *Acta Biomaterialia*, 2018, 72:362-370.
74. Robo C, Öhman-Mägi C, **Persson C**. Compressive fatigue properties of commercially available standard and low-modulus acrylic bone cements intended for vertebroplasty. *J Mech Behav Biomed Mater*, 2018, 82:70-76.
73. Ajaxon I, Holmberg A, Öhman-Mägi C, **Persson C**. Fatigue properties of a high-strength, degradable calcium phosphate bone cement. *J Mech Beh Biomed Mater*, 2018, 79: 46-52.
72. Persson J, Helgason B, Engqvist H, Ferguson SJ, **Persson C**. Stiffness and strength of cranioplastic implant systems in comparison to cranial bone. *J Cranio-Maxillo-Facial Surgery*, 2018, 46(3):418-423.
71. Barba A, Diez-Escudero A, Maazouz Y, Rappe K, Espanol M, Montufar E, Bonany M, Sadowska J-M, Guillem-Marti J, Öhman-Mägi C, **Persson C**, Manzanares M-C, Franch J, Ginebra M-P. Osteoinduction by foamed and 3D-printed calcium phosphate scaffolds: effect of nanostructure and pore architecture. *ACS Applied Materials & Interfaces*, 2017, 9: 41722-41736.
70. Diez-Escudero A, Espanol M, Bonany M, Lu X, **Persson C**, Ginebra MP. Heparinization of Beta Tricalcium Phosphate: Osteo-immunomodulatory Effects. *Advanced Healthcare Materials*, 2017, 1700867.
69. Pujari-Palmer M, Robo C, **Persson C**, Procter P, Engqvist H. Influence of cement compressive strength and porosity on augmentation performance in a model of orthopedic screw pull-out. *J Mech Beh Biomed Mater*, 2018, 77: 624-633.
68. Luo J, Martinez-Cascado F, Balmes O, Yang J, **Persson C**, Engqvist H, Xia W. In-situ Synchrotron X-ray Diffraction Analysis of the Setting Process of Brushite Cement: Reaction and Crystal Growth. *ACS Applied Materials & Interfaces*, 2017, 9: 36392-36399.
67. Shah FA, Tedesco J, Lee BEJ, Larsson Wexell C, **Persson C**, Thomsen P, Grandfield K, Palmquist A. Micrometre-sized magnesium whitlockite crystals in Micropetrosis of bisphosphonate-exposed human alveolar bone. *Nano Letters*, 2017, 17: 6210-6216.
66. Gallinetti S, Mestres G, Canal C, **Persson C**, Ginebra MP. A novel strategy to enhance interfacial adhesion in fiber-reinforced calcium phosphate cement. *J Mech Beh Biomed Mater*, 2017, 75: 495-503.
65. Lewin S, Barba Serrahima A, **Persson C**, Franch Serracanta J, Ginebra MP, Öhman Mägi C. Evaluation of bone formation in calcium phosphate scaffolds with  $\mu$ CT – method validation using SEM. *Biomedical Materials*, 2017, 12: 065005, e-pub.
64. Ajaxon I, Acciaioli A, Lionello G, Ginebra MP, Öhman-Mägi C, Baleani M, **Persson C**. Elastic properties and strain-to-crack-initiation of calcium phosphate bone cements: Revelations of a high-resolution measurement technique. *J Mech Beh Biomed Mater*, 2017, 74: 428-437.



63. Tummala GK, Joffre T, Rojas R, **Persson C**, Mihranyan A. Strain-Induced Stiffening of Nanocellulose-Reinforced Poly(vinyl alcohol) Hydrogels Mimicking Collagenous Soft Tissues. *Soft Matter*, 2017, 13: 3936-3945, e-pub.
62. Joffre T, Isaksson P, Procter P, **Persson C**. Trabecular deformations during screw pull-out: a micro-CT study of lapine bone. *Biomechanics and modeling in mechanobiology*, 2017, 16(4): 1349-1359. DOI: 10.1007/s10237-017-0891-9.
61. Skjöldebrand C, Schmidt S, Vuong V, Pettersson M, Grandfield K, Högberg H, Engqvist H, **Persson C**. Influence of substrate heating and nitrogen flow on the composition, morphological and mechanical properties of SiNx coatings aimed for joint replacements. *Materials*, 2017, 10(2), 173: <http://www.mdpi.com/1996-1944/10/2/173/pdf>.
60. Ajaxon I, Öhman Mägi C, **Persson C**. Compressive fatigue properties of an acidic calcium phosphate cement—effect of phase composition. *J Mater Sci: Mater in Med*, 2017, 28(3): 41, e-pub: <http://rdcu.be/oVj2>.
59. Joffre T, Segerholm K, **Persson C**, Bardage SL, Luengo Hendriks CL, Isaksson P. Characterization of interfacial stress transfer ability in acetylation-treated wood fibre composites using X-ray microtomography. *Industrial Crops and Products*, 2017, 95: 43-49.
58. Tummala G, Joffre T, Lopes VR, Liszka A, Buznyk O, Ferraz N, **Persson C**, Griffith M, Mihranyan A. Hyperelastic Nanocellulose-Reinforced Hydrogel of High Water Content for Ophthalmic Applications. *ACS Biomaterials Science & Engineering*, 2016, 2(11): 2072-2079.
57. Neovius E, Fransson M, **Persson C**, Clarliden S, Farnebo F, Lundgren K. Long-term sensory disturbances after orbitozygomatic fractures. *Journal of Plastic, Reconstructive & Aesthetic Surgery*, 2017, 70(1): 120-126.
56. Pettersson M, Skjöldebrand C, Filho L, Engqvist H, **Persson C**. Morphology and dissolution rate of wear debris from silicon nitride coatings. *ACS Biomaterials & Engineering*, 2016, 2(6): 998-1004.
55. Luo J, Ajaxon I, Ginebra M-P, Engqvist H, **Persson C**. Compressive, diametral tensile and biaxial flexural strength of cutting-edge calcium phosphate cements. *J Mech Behav Biomed Mater*, 2016, 60: 617-627.
54. Koh, I. Gombert Y, **Persson C**, Engqvist H, Helgason B, Ferguson S. Ceramic cement as a potential stand-alone treatment for bone fractures: an in vitro study of ceramic-bone composites. *J Mech Behav Biomed Mater*, 2016, 61: 519-529.
53. Pettersson M, Bryant M, Schmidt S, Engqvist H, Hall, RM, Neville A and **Persson C**. Dissolution behaviour of silicon nitride coatings for joint replacements. *Mater Sci Eng C Mater Biol Appl*, 2016, 62: 497-505.
52. Hoess A, López A, Engqvist H, Karlsson Ott M, **Persson C**. Comparison of a quasi-dynamic and a static extraction method for the cytotoxic evaluation of acrylic bone cements. *Mater Sci Eng C Mater Biol Appl*, 2016, 62: 274-282.
51. **Persson C**, López A, Fathali H, Hoess A, Rojas R, Karlsson Ott M, Hilborn J, Engqvist H. The effect of oligo(trimethylene carbonate) addition on the stiffness of acrylic bone cement. *Biomatter*, 2016, e-pub ahead of print. DOI: 10.1080/21592535.2015.1133394.
50. Ajaxon I, Öhman C, **Persson C**. Long-term in vitro degradation of a high-strength brushite cement in water, PBS, and serum solution. *BioMed Research International*, 2015, <http://dx.doi.org/10.1155/2015/575079>.
49. Vuong V, Pettersson M, **Persson C**, Larsson S, Grandfield K, Engqvist H. Surface and subsurface analyses of metal-on-polyethylene total hip replacement retrievals. *Ann Biomed Eng*, 2016, 44(5): 1685-97.
48. Mestres G, Kugiejko K, Pastorino D, Unosson J, Öhman C, Karlsson Ott M, Ginebra Maria-Pau, **Persson C**. Changes in the drug release pattern of fresh and set simvastatin-loaded brushite cement. *J Mater Sci & Eng C*, 2016, 58: 88-96.

47. Carlsson E, Mestres G, Treerattrakoon K, López A, Karlsson Ott M, Larsson S, **Persson C**. In vitro and in vivo response to low-modulus PMMA-based bone cement. *BioMed Research International*, 2015, epub. DOI: <http://dx.doi.org/10.1155/2015/594284>.
46. Hedberg Y, Pettersson M, Pradhan S, Odnevall Wallinder I, Rutland M, **Persson C**. Can cobalt(II) and chromium(III) ions released from joint prostheses influence the friction coefficient?. *ACS Biomaterials Science & Engineering*, 2015, 1(8): 617-620.
45. Holub O, López A, Borse V, Engqvist H, Kapur N, Hall RM and **Persson C**. Biomechanics of Low-modulus and Standard Acrylic Bone Cements in Simulated Vertebroplasty: A Human Ex Vivo Study. *J Biomechanics*, 2015, 48(12): 3258-66. DOI: <http://dx.doi.org/10.1016/j.jbiomech.2015.06.026>
44. Ajaxon I, Maazouz Y, Ginebra M-P, Öhman C, **Persson C**. Evaluation of a porosity measurement method for wet calcium phosphate cements. *J Biomater Appl*, 2015, 30(5): 526-36. DOI: 10.1177/0885328215594293.
43. Oladokun A, Pettersson M, Bryant M, Engqvist H, **Persson C**, Hall R, Neville A. Fretting of CoCrMo and Ti6Al4V Alloys in Modular Prostheses. *Tribology – Materials, Surfaces & Interfaces*, 2015, 9(4): 165-173. DOI: <http://dx.doi.org/10.1179/1751584X15Y.0000000014>
42. **Persson C**, Robert E, Carlsson E, Robo C, López A, Godoy-Gallardo M, Ginebra MP, Engqvist H. The effect of unsaturated fatty acid and triglyceride oil addition on the mechanical and antibacterial properties of acrylic bone cements. *J Biomat Appl*, 2015, 30(3): 279-289.
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