

Alessandro Pegoretti, *curriculum vitae* (updated June 10th 2021)

- Personal



Nationality Italian
Marital status Married, two daughters

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University of Trento
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- Education

1988 **Graduated in Materials Engineering** at the University of Trento with a dissertation entitled “Mechanical behaviour of sol-gel coated soda-lime glass”, tutor prof G.Carturan (summa cum laude).

- Current position: **Full Professor**
Department of Industrial Engineering
University of Trento, Trento, Italy

- Professional experiences

1992 – 2001 **Assistant Professor**
Dept. of Materials Engineering and Industrial Technology,
University of Trento, Trento, Italy

1995 **Postdoctoral Fellow**
Institute of Materials Science, University of Connecticut, Storrs, USA

1997 **Research scientist**
Institute of Materials Science, University of Connecticut, Storrs, USA

1998 – 2001 **Adjunct Professor**
Dept. of Materials Engineering and Environment
University of Modena and Reggio Emilia, Modena, Italy

2002 – 2012 **Associate Professor**
Dept. of Materials Engineering and Industrial Technology
University of Trento, Trento, Italy

2006 **Visiting Professor**
Universidad Nacional del Sur, Dept. of Chemical Engineering
PLAPIQUI (UNS-CONICET) Bahía Blanca, Argentina.

2011 – 2015 **Graduate Faculty Associate**
Department of Mechanical & Materials Engineering
University of Nebraska - Lincoln, USA

2012 – 2018 **Director of the Doctoral School
in Materials, Mechatronics and Systems Engineering**
University of Trento, Trento, Italy

2015 – 2018 **Special Visiting Researcher, CNPq position**
Department of Mechanical Engineering
Federal University of Santa Catarina – UFSC, Florianópolis, SC, Brazil

- General research expertise and interests

The main aim of the research activity is to investigate the structure-properties relationships in polymer, polymer blends composite and nanocomposites, with particular attention to their mechanical behaviour.

Main fields of interests are:

- Deformation, yield and fracture mechanics of polymers and composites.
- Processing and characterization of multiphase polymeric materials (micro- and nanocomposites, blends).
- Durability of polymeric and composite materials.
- Environmentally sustainable polymers and composites (biodegradable, from renewable resources, fully recyclable).
- Polymers and composites with functional properties (electrical conductivity, shape memory, strain and damage monitoring, self-healing, etc..).

- Publications

<i>Original papers in international scientific journals:</i>	272
<i>Books</i>	2
<i>Book chapters:</i>	14
<i>Papers in national journals:</i>	4
<i>Patents:</i>	3
<i>Presentations in international conferences:</i>	133
<i>Presentations in Italian national conferences:</i>	77

- Impact of research: databases consulted on June 10th 2021

Source	H-Index	Number of products	Number of citations
ISI Web of Science	38	280	6095
Scopus	43	304	6759
Google Scholar	49	341	9266

- Main national and international research grants as principal investigator

- 2000-2002 PRIN MM09012922_005 - Analysis of the thermomechanical behaviour of materials based on recycled PET for a usage in building constructions. Local coordinator.
- 2003-2005 PRIN 2003093440_002 – Physico-mechanical characterization of new functional hybrid materials based on carbon nanotubes and polymer matrix for photovoltaic devices. Local coordinator.
- 2006-2010 FP6 European Project Network of Excellence on Nanostructured and Functional Polymer-based Materials and Nanocomposites (NANOFUN-POLY) - Local coordinator.
- 2007-2009 PRIN 20075939JY_003 - Continuous fibre composites with a nanocomposite matrix: preparation, microstructure and thermo-mechanical properties (NanoCompStrut). Local coordinator.
- 2006-2008 Executive programme for scientific and technological co-operation between Italy and Argentina for the years 2006-2007 – Improvements of interfacial adhesion in multiphase systems. Project coordinator.
- 2011-2013 Executive programme for scientific and technological co-operation between Italy and Hungary for the years 2011-2013 – On the toughness of thermoplastic nanocomposites as studied by the essential work of fracture (EWF) approach. Project coordinator.

- 2012-2014 Fondazione Cassa di Risparmio di Trento e Rovereto. Project "Preparation and characterization of wood-based degradable composite laminates". Project coordinator.
- 2014-2018 Science Without Borders program financed by CNPq Brazil, "Development of polymer nanocomposites for electromagnetic shielding applications". Project coordinator
- 2015-2017 Fondazione Cassa di Risparmio di Trento e Rovereto. Project "Development and characterization of multifunctional nanocomposite filters for automotive applications". Project coordinator.
- 2016-2018 Fondazione Cassa di Risparmio di Trento e Rovereto. Project "Phase change elastomeric compounds for thermal energy storage-release". Project coordinator.
- 2017-2018 Horizon 2020 SMEInst-09-2016-2017. Project AEROPCM "Elastomeric compound with phase change materials integrated to state of art thermal insulation panel (Aeropan) to improve energy saving and CO2 emission reduction in civil and industrial buildings. Local coordinator.
- 2020 – 2022 Fondazione Cariverona. Project "Sviluppo di un processo per il riciclo di schiume rigide a base PVC provenienti da scarti di produzione e da manufatti (RE-FOAMS). Principal investigator.
- 2020 H2020-RUR-2018-2020 Topic: LC-RUR-11-2019-2020. Project ONEforest. A Multi-Criteria Decision Support System For A Common Forest Management to Strengthen Forest Resilience, Harmonise Stakeholder Interests and Ensure Sustainable Wood Flows. Participant.

- Main industrial contracts as principal investigator

- 2005 (Eurostandard spa) – Development of electrical conductive polyethylenes.
- 2006 (Iveco spa) – Impact properties of PP based composites.
- 2007 (Tozzi Nord srl) – Wind blades: materials selection and design.
- 2008 (Elantas Camattini spa) – Fatigue behaviour of composite adhesive joints.
- 2009 (Luxottica spa) – Static and fatigue mechanical behaviour of titanium adhesive joints.
- 2010 (UFI Filters spa) - Development of new nanocomposite polymer nets for liquids filtration.
- 2011 (IHP Composite srl) - Novel composite-reinforced gas storage tanks.
- 2014 (UFI Filters spa) - Development of electrically conductive polymer fibers for multifunctional filters.
- 2017 (Iveco Spa) – Composites for protective barriers.
- 2018 (Novurania Spa) – Elastomeric composites for thermal energy storage and release.
- 2020 (CMS Spa) – 3D printing with engineering plastics and composites.

- Prizes awarded and other relevant international scientific recognition

- 1996 Fulbright scholarship for a one year stage at the University of Connecticut (USA).
- 1998 Research prize by the Italian Association of Materials Engineering for the paper "Fiber/matrix adhesion in nylon-6/glass fiber composites" presented at the IV AIMAT Conference, Cagliari (Italy), June 8-11 1998.
- 2010 Borealis Student Innovation Award - for an innovative research with a clear potential of practical applications (student M. D'Amato, tutor: A.Pegoretti) for the thesis « Polymeric Nanocomposite Fibres».
- 2017 Best paper presented at the Italian Nordic Polymer Future 2017, Pisa, Italy, September 14-15 2017

- Memberships of Editorial Boards of international scientific journals

as an editor:

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|----------------|--|
| 2014 - present | Associate Editor of the "Journal of Reinforced Plastics and Composites" |
| 2014 - present | Specialty Chief Editor "Frontiers in Materials: Polymeric and Composite Materials" |
| 2020 - present | Editor in Chief of the "Advanced Composites" section of "Materials". |
| 2021 – present | Editor, "Polymer Composites" |

as a member:

- | | |
|----------------|---|
| 2006 - present | Member of the Editorial Board of "eXPRESS Polymer Letters" |
| 2008 - present | Member of the Editorial Board of "Composite Interfaces" |
| 2010 - 2014 | Member of the Editorial Board of "The Open Textile Journal" |
| 2010 - present | Member of the Editorial Board of "Materials Sciences and Applications" |
| 2011 - present | Member of the Editorial Board of "Soft Nanoscience Letters" |
| 2012 - 2017 | Member of the Editorial Board of "Dataset Papers in Materials Science" |
| 2014 - present | Member of the Editorial Board of "International Journal of Polymer Science" |
| 2015 - present | Member of the Editorial Board of "Journal of Advanced Material Sciences" |
| 2015 - present | Member of the Editorial Board of "Journal of Nanomaterials" |
| 2016 - present | Member of the Editorial Board of "Polymer Materials Science & Engineering" |

2016 - present	Member of the Editorial Board of "Journal of Composites Science"
2018 - present	Member of the Editorial Board of "Journal of Applied Biomaterials and Functional Materials"
2018 - present	Member of the Editorial Board of "Advances in Materials Science and Engineering"
2018 - present	Member of the Editorial Board of "Applied Sciences"
2018 - present	Member of the Editorial Board of "Science and Engineering of Composite Materials"

- International scientific committees of conferences

- Trento Innovation Conferences in Materials Engineering: 1st Meeting: Advances in Polymers, Composites and Biomaterials, TICME2007, Trento, Italy 16-19/12 2007.
- 9th International Conference on Experimental techniques and design in composite materials, ETDCM, Vicenza, Italy 30/9-2/10 2009.
- 15th European Conference on Composite Materials, ECCM15, Venezia, Italy, 24-28/6 2012 (Executive Committee).
- A New International Conference on Composite Interfaces, Interface 21, Kyoto, Japan 6-8/8 2012.
- 19th International Conference on Composite Materials, ICCM19, Montreal, Canada, 28/7-2/9 2013.
- 16th European Conference on Composite Materials, ECCM16, Seville, Spain, 22-26/6 2014
- 20th International Conference on Composite Materials, ICCM20, Copenhagen, Denmark, 19-24/7 2015.
- 4th International Conference on Nanomechanics and Nanocomposites, ICNN4, Vicenza, Italy 14-17/9/2016
- 5th International Conference on Recent Advances in Composite Materials, KL University, Vijayawada, Guntur, India 15-18/12/2016
- 21st International Conference on Composite Materials, ICCM-21, Xi'an, China, 20-25/8/2017
- International Conference on Building Materials and Materials Engineering, ICBMM 2017, Lyon, France, 21-23/9/2017
- Milan Polymer Days MIPOL2018, Milano, Italy, February 14-16th 2018
- 18th European Conference on Composite Materials, ECCM18, Athens, Greece, 24-28/6 2018
- 11th International Conference on Mechanics of Time-Dependent Materials (MTDM 2018), Milano, Italy September 4th-7th 2018
- 5th International Conference on Nanomechanics and Nanocomposites, ICNN5, Fukuoka, Japan 22-25/5/2018
- Sixth International Conference on Recent Advances in Composite Materials ICRACM-2019 Varanasi, India 25-28/2/2019
- First International Conference on Basalt Fibers and Composites (ICBFC-2019) Nanjing, China 16-18/11/2019
- 6th International Conference on Nanomechanics and Nanocomposites, ICNN6, Hamburg, Germany 1-4/9/2020
- 19th European Conference on Composite Materials, ECCM19, Nantes, France, 22-26/6 2020 (cancelled)
- 20th European Conference on Composite Materials, ECCM19, Lausanne, Switzerland, 26-30/6 2022

- Review activity

Reviewer for various archival journals, among them:

ACS Nano, Acta Biomaterialia; Advances in Polymer Technologies; Biomaterials; Composites Part A: Applied Science and Manufacturing; Composites Part B: Engineering; Composites Science and Technology; Diamond & Related Materials; Express Polymer Letters; International Journal of Fatigue; European Polymer Journal; International Journal of Polymer Science; International Journal of Solids; Journal of Applied Polymer Science; Journal of Biomaterials Science: Polymer Edition; Journal of Cleaner Production; Journal of Intelligent Material Systems and Structures; Journal of Materials Chemistry C; Journal of Materials Processing Technology; Macromolecular Bioscience; Macromolecular Materials and Engineering; Macromolecular Rapid Communications; Materials and Design; Materials; Materials Science and Engineering: A; Nanomaterials; Nature Communications; Polymer, Polymers; Polymer Bulletin; Polymer Composites; Polymer Degradation and Stability; Polymer Engineering and Science; Polymer International; Polymer Testing; Science and Engineering of Composite Materials; Scientific Reports; Scripta Materialia; Sensors & Actuators: A. Physical; Synthetic Metals; Waste Management.

- Teaching activity

1997 – 2001	"Science and Technology of Composite Materials" (Master program, University of Modena and Reggio Emilia)
2001 – 2019	"Properties and Characterization of Materials" (Master program, University of Trento)

2005 – 2017	“Laboratory of Mechanics of Materials” (Master program, University of Trento)
2005 – 2011	“Wind Turbines Design” (Master program, University of Trento)
2004 – present	“Experimental Mechanics of Materials” (PhD School, University of Trento)
2017 – present	“Recycling and Sustainable Materials”
2020 – present	“Composite Materials Engineering”

- Research Advisor: Postdocs (8), Ph.D. Students (10), Master Students (115) (list not reported)

- Evaluation Panels

- Austrian Science Fund (FWF), Austria
- Deutsche Forschungsgemeinschaft (German Research Foundation), Germany
- Executive Agency for Higher Education, Research, Development and Innovation Funding, Romania
- Fund for Scientific Research (F.R.S.-FNRS), Belgium
- Grant Agency of the Czech Republic (GACR), Czech Republic
- Hungarian Scientific Research Fund (OTKA), Hungary
- Israel Science Foundation (ISF)
- Italian Ministry for University and Research (MIUR), Italy
- Member of the Commission for the National Scientific Habilitation in Materials Science and Technology for the Italian Ministry for University and Research (MIUR), Italy 2018 – 2021.
- National Center of Science and Technology Evaluation, Republic of Kazakhstan
- Swiss National Science Foundation (SNSF)

- Associations

1993 – present	Italian Association of Materials Engineering (AIMAT)
1999 – present	Society for the Advancement of Material and Process Engineering (SAMPE)
1999 – present	Italian Interuniversity Consortium of Materials Science and Technology (INSTM)
2010 - present	European Society for Composite Materials (ESCM)
2010 – 2014	Member of the Council of the European Society for Composite Materials (ESCM)
2011 – present	Society of Plastic Engineers (SPE)
1998- present	Italian Association of Macromolecules (AIM)

- LIST OF PUBLICATIONS (in reverse chronological order)

	PUBLICATION TYPE	PAGE
1)	ARTICLES IN INTERNATIONAL SCIENTIFIC JOURNALS	6
2)	BOOKS	31
3)	BOOK CHAPTERS.....	31
4)	ARTICLES IN NATIONAL JOURNALS	32
5)	PATENTS	33
6)	PROCEEDINGS OF INTERNATIONAL CONFERENCES.....	33
7)	PROCEEDINGS OF ITALIAN NATIONAL CONFERENCES	46

1) ARTICLES IN INTERNATIONAL SCIENTIFIC JOURNALS

2021

272. Dul S, Fambri L, Pegoretti A. High-performance polyamide/carbon fibre composites for fused filament fabrication: mechanical and functional performances. *Journal of Materials Engineering and Performance*. In press.
271. Valentini F, Dorigato A, Fambri L, Pegoretti A. Novel EPDM/paraffin foams for thermal energy storage applications. *Rubber Chemistry and Technology*. In press.
270. Galvagnini F, Dorigato A, Valentini F, Fiore V, La Gennusa M, Pegoretti A. Multifunctional polyurethane foams with thermal energy storage/release capability. *Journal of Thermal Analysis and Calorimetry*. In press.
269. Galvagnini F, Dorigato A, Fambri L, Fredi G, Pegoretti A. Thermophysical properties of multifunctional syntactic foams containing phase change microcapsules for thermal energy storage. *Polymers*. 2021; 13(11), 1790.
268. Zambotti A, Caldesi E, Pellizzari M, Valentini F, Pegoretti A, Dorigato A, Speranza G, Chen K, Bortolotti M, Sorarù GD, Biesuz M. Polymer-derived silicon nitride aerogels as shape stabilizers for low and high temperature thermal energy storage. *Journal of the European Ceramic Society*. 2021; 41(11) 5484-5494.
267. Fredi G, Karimi Jafari M, Dorigato A, Bikiaris DN, Checchetto R, Favaro M, Brusa RS, Pegoretti A. Multifunctionality of reduced graphene oxide in bioderived poly(lactide)/poly(dodecylene furanoate) nanocomposite films. *Molecules*. 2021; (26) 2938.

266. Pegoretti A. Towards sustainable structural composites: a review on the recycling of continuous-fiber-reinforced thermoplastics. *Advanced Industrial and Engineering Polymer Research*. 2021; 4(2) 105-115.
265. Pegoretti A. Recycling concepts for short-fiber-reinforced and particle-filled thermoplastic composites: a review. *Advanced Industrial and Engineering Polymer Research*. 2021; 4(2) 93-104.
264. Pegoretti A. When polymers meet metals: the changing shape of magnetostrictive polymer composites. *Express Polymer Letters*. 2021; 15(7) 581.
263. Valentini F, Fambri L, Dorigato A, Pegoretti A. Production and characterization of TES-EPDM foams with paraffin for thermal management applications. *Frontiers in Materials*. 2021; 8 660656.
262. Mahmood H, Simonini L, Dorigato A, Pegoretti A. Graphene deposition on glass fibers by triboelectrification. *Applied Sciences*. 2021; 11(7) 3123.
261. Alonso Gutierrez BJ, Dul S, Pegoretti A, Alvarez-Quintana J, Fambri L. Investigation of the effects of multi-wall and single-wall carbon nanotubes concentration on the properties of ABS nanocomposites. *Journal of Carbon Research*. 2021; 7(2) 33.
260. Schmitz DP, Dul S, Ramoa SDAS, Soares BG, Barra GMO, Pegoretti A. Effect of printing parameters on electromagnetic shielding efficiency of ABS/carbonaceous-filler composites manufactured via filament fused fabrication. *Journal of Manufacturing Processes*. 2021; 65, 12-19.
259. Valentini F, Dorigato A, Rigotti D, Pegoretti A. Evaluation of the role of devulcanized rubber on the thermo-mechanical properties of expanded ethylene-propylene diene monomers composites. *Polymer Engineering and Science*. 2021; 61, 767-779.
258. Bertolini MC, Dul S, Barra GMO, Pegoretti A. Poly(vinylidene fluoride)/thermoplastic polyurethane flexible and 3D printable conductive composites. *Journal of Applied Polymer Science*. 2021; 138(17) e50305.
257. Zonta E, Valentini F, Dorigato A, Fambri L, Pegoretti A. Evaluation of the salt leaching method for the production of EPDM rubber foams. *Polymer Engineering and Science*. 2021; 61, 136-153.
256. Dorigato A, Mahmood H, Pegoretti A. Optimization of the thermal mending process in epoxy/cyclic olefin copolymer blends. *Journal of Applied Polymer Science*. 2021; 138(9), e49937.
255. Valentini F, Dorigato A, Pegoretti A, Tomasi M, Sorarù GD, Biesuz M. Si₃N₄ nanofelts / paraffin composites as novel thermal energy storage architecture. *Journal of Materials Science*. 2021; 56, 1537-1550.

254. Rigotti D, Dorigato A, Pegoretti A. Low cycle fatigue behavior of flexible 3D printed thermoplastic polyurethane blends for thermal energy storage/release applications. *Journal of Applied Polymer Science*. 2021; 138(3) 49704.

2020

253. Checchetto R, Rigotti D, Pegoretti A, Miotello A. Chloroform desorption from poly(lactic acid) nanocomposites: a thermal desorption spectroscopy study. *Pure and Applied Chemistry*. 2020; 92(3) 391-398.

252. Srivastava VK, Jain PK, Kumar P, Pegoretti A, Bowen CR. Smart manufacturing process of carbon-based low dimensional structures and fiber reinforced polymer composites for engineering applications. *Journal of Materials Engineering and Performance*. 2020; 29, 4162-4186.

251. Fredi G, Dorigato A, Fambri L, Pegoretti A. Multifunctional structural composites for thermal energy storage. *Multifunctional Materials*. 2020; 3(4), 042001.

250. Fredi G, Zimmerer C, Scheffler C, Pegoretti A. Polydopamine-coated paraffin microcapsules as a multifunctional filler enhancing thermal and mechanical performance of a flexible epoxy resin. *Journal of Composites Science*. 2020; 4(4), 174.

249. Costan Zovi R, Mahmood H, Dorigato A, Fredi G, Pegoretti A. Cyclic olefin copolymer interleaves for thermally mendable carbon/epoxy laminates. *Molecules*. 2020; 25(22), 5347.

248. Fredi G, Dorigato A, Bortolotti M, Pegoretti A, Bikiaris D. Mechanical and functional properties of novel biobased poly(decylene-2,5-furanoate) / carbon nanotubes nanocomposite films. *Polymers*. 2020; 12(11), 2459.

247. Baldi F, Agnelli S, Andena L, Blackman BRK, Castellani L, Frontini PM, Kucera J, Laiarinandrasana L, Pegoretti A, Salazar A, Warnet L. Determination of the fracture resistance of ductile polymers: the ESIS TC4 recent experience. *Materials Performance and Characterization*. 2020; 9(5) 675-687.

246. Dorigato A, Perin D, Pegoretti A. Effect of the temperature and of the drawing conditions on the fracture behaviour of thermoplastic starch films for packaging applications. *Journal of Polymers and the Environment*. 2020; 28 3244-3255.

245. Fredi G, Dorigato A, Pegoretti A. Dynamic-mechanical response of carbon fiber laminates with a reactive thermoplastic resin containing phase change microcapsules. *Mechanics of Time-Dependent Materials*. 2020; 24(3) 395-418.

244. Fambri L, Dorigato A, Pegoretti A. Role of surface treated silica nanoparticles on the thermo-mechanical behaviour of poly(lactide). *Applied Sciences*. 2020; 10(19) 6731.

243. Pegoretti A, Dong Y, Slouf M. Editorial: Biodegradable Matrices and Composites. *Frontiers in Materials*. 2020; 7: Article 265.
242. Fredi G, Dorigato A, Fambri L, Unterberger SH, Pegoretti A. Effect of phase change microcapsules on the thermo-mechanical, fracture and heat storage properties of unidirectional carbon/epoxy laminates. *Polymer Testing*. 2020; 91: 106747.
241. Dickmann M, Tarter S, Egger W, Pegoretti A, Rigotti D, Brusa RS, Checchetto R. Interface nanocavities in poly (lactic acid) membranes with dispersed cellulose nanofibrils: their role in the gas barrier performances. *Polymer*. 2020; 202: 122729.
240. Fredi G, Dorigato A, Fambri L, Pegoretti A. Detailed experimental and theoretical investigation of the thermo-mechanical properties of epoxy composites containing paraffin microcapsules for thermal management. *Polymer Engineering and Science*. 2020; 60:1202–1220.
239. Bertolini MC, Ramoa SDAS, Merlini C, Barra GMO, Soares BG, Pegoretti A. Hybrid composites based on thermoplastic polyurethane with a mixture of carbon nanotubes and a carbon black modified with polypyrrole for electromagnetic shielding. *Frontiers in Materials*. 2020; 7: Article 174.
238. Mahmood H, Dorigato A, Pegoretti A. Healable carbon fiber reinforced epoxy/cyclic olefin copolymer blends. *Materials*. 2020; 13(9): 2165.
237. Valentini F, Dorigato A, Pegoretti A. Evaluation of the role of devulcanized rubber on the thermo-mechanical properties of polystyrene. *Journal of Polymers and the Environment*. 2020; 28(6): 1737-1748.
236. Rigotti D, Dorigato A, Pegoretti A. Thermo-mechanical behaviour and hydrolytic degradation of linear low density polyethylene/poly(3-hydroxybutyrate) blends. *Frontiers in Materials*, 2020; 7: Article 31.
235. Dorigato A, Rigotti D, Pegoretti A. Novel poly(caprolactone)/epoxy blends by additive manufacturing. *Materials*, 2020; 13(4): 819.
234. Mahmood H, Pegoretti A, Brusa RS, Ceccato R, Penasa L, Tarter S, Checchetto R. Molecular transport through 3-hydroxybutyrate co-3-hydroxyhexanoate biopolymer films with dispersed graphene oxide nanoparticles: gas barrier, structural and mechanical properties. *Polymer Testing*. 2020; 81: 106181.
233. Dul S, Pegoretti A, Fambri L. Fused filament fabrication of piezoresistive carbon nanotubes nanocomposites for strain monitoring. *Frontiers in Materials*, 2020; 7: Article 12.

232. Mahmood H, Dorigato A, Pegoretti A. Thermal mending in novel epoxy/cyclic olefin copolymer blends. *Express Polymer Letters*. 2020; 14(4): 368-876.
231. Dul S, Ecco LG, Pegoretti A, Fambri L. Graphene/carbon nanotube hybrid nanocomposites: effect of compression molding and fused filament fabrication on properties. *Polymers*. 2020; 12: 101.
230. Rigotti D, Pegoretti A, Miotello A, Checchetto R. Interfaces in biopolymer nanocomposites: Their role in the gas barrier properties and kinetics of residual solvent desorption. *Applied Surface Science*. 2020; 507: 145066.
229. Karger-Kocsis J, Mahmood H, Pegoretti A. All-carbon hierarchical fibers and related polymer composites: a review. *Composites Science and Technology*. 2020; 186: Article 107932.

2019

228. Fredi G, Dorigato A, Pegoretti A. Novel reactive thermoplastic resin as a matrix for laminates containing phase change microcapsules. *Polymer Composites*. 2019 40; 3711-3724.
227. Fredi G, Dorigato A, Fambri L, Lopez-Cuesta J-M, Pegoretti A. Synergistic effects of metal hydroxides and fumed nanosilica as fire retardants for polyethylene. *Flame Retardancy and Thermal Stability of Materials*. 2019 2(1); 30-48.
226. Rigotti D, Checchetto R, Tarter S, Caretti D, Rizzuto M, Fambri L, Pegoretti A. Polylactic acid - lauryl functionalized nanocellulose nanocomposites: microstructural, thermo-mechanical and gas transport properties. *Express Polymer Letters*. 2019 13(10); 858-876.
225. Pegoretti A, Fredi G. Thermal management with polymer composites. *Express Polymer Letters*. 2019 13(10); 844-844.
224. Dorigato A, Govaert LE, Pegoretti A. Lifetime assessment of high-density polyethylene - silica nanocomposites. *Nanomaterials and Nanotechnologies*. 2019 9 1-11.
223. Dorigato A, Biani A, Bonani W, Pegoretti A. Thermo-electrical behaviour of cyclic olefin copolymer/exfoliated graphite nanoplatelets nanocomposites foamed through supercritical carbon dioxide. *Journal of Cellular Plastics*. 2019 55(3) 263-282.
222. Rigotti D, Elhajjar R, Pegoretti A. Adiabatic effects on the temperature and rate dependency of the fracture toughness of an ethylene-fluoroethylene film. *Engineering Fracture Mechanics*. 2019 214(1); 260-269.

221. Valentini F, Dorigato A, Rigotti D, Pegoretti A. Polyhydroxyalkanoates/fibrillated nanocellulose composites for additive manufacturing. *Journal of Polymers and the Environment*. 2019 27; 1333-1341.
220. Dorigato A, Fredi G, Pegoretti A. Thermo-mechanical behaviour of novel wood laminae-thermoplastic starch biodegradable composites with thermal energy storage/release capability. *Frontiers in Materials*. 2019; 6 76.
219. Fredi G, Dirè S, Callone E, Ceccato R, Mondadori F, Pegoretti A. Docosane-organosilica microcapsules for structural composites with thermal energy storage/release capability. *Materials*. 2019; 12(8) 1286.
218. Dorigato A, Pegoretti A. Shape memory epoxy nanocomposites with carbonaceous fillers and in-situ generated silver nanoparticles. *Polymer Engineering and Science*, 2019; 59(4) 694-703.
217. Benobeidallah B, Benhamida A, Dorigato A, Sola A, Messori M, Pegoretti A. Structure and properties of polyamide 11 nanocomposites filled with fibrous palygorskite clay. *Journal of Renewable Materials*. 2019; 7(1) 89-102.
216. Oulmou F, Benhamida A, Dorigato A, Sola A, Messori M, Pegoretti A. Effect of expandable and expanded graphites on the thermo-mechanical properties of polyamide 11. *Journal of Elastomers and Plastics*. 2019; 51(2) 175–190.
215. Dorigato A, Fredi G, Pegoretti A. Application of the thermal energy storage concept to novel epoxy/short carbon fiber composites. *Journal of Applied Polymer Science*. 2019; 136, 47434.
214. Mahmood H, Dorigato A, Pegoretti A. Temperature dependent strain/damage monitoring of glass/epoxy composites with graphene as a piezoresistive interphase. *Fibers*. 2019; 7(2) 17.
213. Dul S, Fambri L, Merlini C, Barra GMO, Bersani M, Vanzetti L, Pegoretti A. Effect of graphene nanoplatelets structure on the properties of acrylonitrile-butadiene-styrene composites. *Polymer Composites*. 2019; 40(S1) E285-E300.
212. Merlini C, Pegoretti A, Vargas, PC, Da Cunha TF, Ramoa SDAS, Soares BG, Barra GMO. Electromagnetic interference shielding effectiveness of composites based on polyurethane derived from castor oil and nanostructured carbon fillers. *Polymer Composites*. 2019; 50(S1) E78-E87.
211. Dorigato A, Freitas V, Covas JA, Paiva, MC, Brugnara M, Pegoretti A. Evaluation of the role of carbon nanotubes on the electrical properties of poly(butylene-terephthalate) nanocomposites for industrial applications. *Journal of Elastomers and Plastics*. 2019; 51(1) 3-25.

210. Perioli L, Dorigato A, Pagano C, Leoni M, Pegoretti A. Thermo-mechanical and adhesive properties of polymeric films based on ZnAl-hydroxalcalite composites for active wound dressings. *Polymer Engineering and Science*. 2019; 59(S1) E112-E119.
209. Dorigato A, Pegoretti A. Novel electro-active polyamide 12 based nanocomposites filled with reduced graphene oxide. *Polymer Engineering and Science*. 2019; 59(1) 198-205.
208. Dorigato A, Fredi G, Fambri L, Lopez-Cuesta J-M, Pegoretti A. Polyethylene-based single polymer laminates: synergistic effects of nanosilica and metal hydroxides. *Journal of Reinforced Plastics and Composites*. 2019; 38(2) 62-73.
207. Ecco LG, Dul S, Schmitz DP, Barra GMO, Soares BG, Fambri L, Pegoretti A. Rapid prototyping of efficient electromagnetic interference shielding polymer composites via fused deposition modeling. *Applied Sciences*. 2019; 9(1) 37.
206. Fredi G, Dorigato A, Unterbergher S, Artuso N, Pegoretti A. Discontinuous carbon fiber/polyamide composites with microencapsulated paraffin for thermal energy storage. *Journal of Applied Polymer Science*. 2019; 136 47408.

2018

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