



Marco Zanetti

Date of birth: 23 Nov 1968 **Nationality:** Italian

WORK EXPERIENCE

[1 Jul 2022 – Current]

Full Professor

Department of Chemistry - Università degli Studi di Torino

City: Torino | **Country:** Italy

[21 Dec 2017 – Jun 2022]

Associate Professor

Department of Chemistry - Università degli Studi di Torino

City: Torino | **Country:** Italy

[31 Oct 2008 – 20 Dec 2017]

Researcher

Department of Chemistry - Università degli Studi di Torino

City: Torino | **Country:** Italy

[14 Jan 2004 – 29 Oct 2008]

Research Manager

Department of Chemistry - Università degli Studi di Torino

City: Torino

EDUCATION AND TRAINING

[14 Jan 2002 – 13 Jan 2004]

Post Doc Fellow

University of Torino

Address: Via Pietro Giuria, 7, 10125, Torino, Italy |

[30 Nov 1998 – 30 Nov 2001]

Ph. D. in Chemical Science

University of Torino <https://www.unito.it/>

Address: Via Pietro Giuria, 7, 10125, Torino, Italy |

[14 Sep 1989 – 30 Nov 1998]

Master Degree in Industrial Chemistry

University of Torino

Address: Via Pietro Giuria, 7, 10125, Torino, Italy |

SCIENTIFIC CAREER SUMMARY

Publication

- Author of 82 peer reviewed papers, 5626 citation, h-Index 35 (Scopus)
- Author of 3 international patents
- ORCID: orcid.org/0000-0001-7074-9859

Assignments

- Coordinator of the PhD programme in Innovation for the Circular Economy of the University of Turin 2024
- Coordinator of SusPlas@Unito, SUSTAINABLE PLASTIC Scientific Hub of the University of Turin, 2024
- Coordinator of Technological Transfer Commission for Department of Chemistry, University of Turin 2022-2024

- Member of the scientific committee of the interdepartmental centre for the study of nanostructured surfaces and interfaces – (NIS Centre) of the University of Turin, 2013-today
- Member of the scientific committee of the Innovation Centre of the University of Turin – ICxT. 2015-today
- Director of the Smart Materials and Smart Factory Lab of the ICxT centre, 2017-2020
- Member of the faculty of the doctorate in Innovation for the Circular Economy of the University of Turin. 2017 – today
- Member of Editorial Board of POLYMERS Journal (MDPI, Switzerland). 2020 -today
- Associate Editor in Polymer Chemistry for Frontiers in Chemistry
- Member of administration board of Proplast 2019-2024

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Turin, 31 Oct 2024



Marco Zanetti

Publication List, Marco Zanetti

1. Gambino, F.; Gastaldi, M.; Jouhara, A.; Malburet, S.; Galliano, S.; Cavallini, N.; Colucci, G.; Zanetti, M.; Fina, A.; Elia, G.A.; et al. Formulating PEO-polycarbonate blends as solid polymer electrolytes by solvent-free extrusion. *J. Power Sources Adv.* **2024**, *30*, 100160, doi:10.1016/j.powera.2024.100160.
2. Miravalle, E.; Viada, G.; Bonomo, M.; Barolo, C.; Bracco, P.; Zanetti, M. Recycling of Commercially Available Biobased Thermoset Polyurethane Using Covalent Adaptable Network Mechanisms. *Polymers (Basel)*. **2024**, *16*, 2217.
3. Miravalle, E.; Balboa, S.; Zanetti, M.; Otero, A.; Lazzari, M. New insights on the degradation of polystyrene and polypropylene by larvae of the superworm *Zophobas atratus* and gut bacterial consortium enrichments obtained under different culture conditions. *J. Hazard. Mater.* **2024**, *478*, 135475, doi:10.1016/j.jhazmat.2024.135475.
4. Cecone, C.; Fiume, V.; Bracco, P. Maltodextrin-Based Cross-Linked Electrospun Mats as Sustainable Sorbents for the Removal of Atenolol from Water. *Polymers (Basel)*. **2024**, *16*, 1–13, doi:10.3390/polym16060752.
5. Miravalle, E.; Bracco, P.; Brunella, V.; Barolo, C.; Zanetti, M. Improving Sustainability through Covalent Adaptable Networks in the Recycling of Polyurethane Plastics. *Polymers (Basel)*. **2023**, *15*, 3780.
6. Cecone, C.; Iudici, M.; Ginepro, M.; Zanetti, M.; Trotta, F.; Bracco, P. Dextrin-Based Adsorbents Synthesized via a Sustainable Approach for the Removal of Salicylic Acid from Water. *Nanomaterials* **2023**, *13*, doi:10.3390/nano13202805.
7. Rubin Pedrazzo, A.; Jouve, A.; Morandi, S.; Manzoli, M.; Cecone, C.; Bracco, P.; Zanetti, M. Cyclodextrins as a Templating Agent in Solvent-Free Kneading-Based Syntheses of Nanosized SnO₂ and ZnO. *ACS Sustain. Chem. Eng.* **2022**, *10*, 12139–12147, doi:10.1021/ACSSUSCHEMENG.2C02344.
8. Fioravanti, A.; Morandi, S.; Pedrazzo, A.R.; Cecone, C.; Manzoli, M.; Zanetti, M.; Bracco, P.; Mazzocchi, M.; Lettieri, S.; Marani, P.; et al. Investigation of the key parameters for gas sensing through comparison of electrospun and sol-gel semiconducting oxides. *Ceram. Int.* **2022**, *48*, 20948–20960, doi:10.1016/j.ceramint.2022.04.087.
9. Cecone, C.; Hoti, G.; Caldera, F.; Zanetti, M.; Trotta, F.; Bracco, P. NADES-derived beta cyclodextrin-based polymers as sustainable precursors to produce sub-micrometric cross-linked mats and fibrous carbons. *Polym. Degrad. Stab.* **2022**, *202*, 110040, doi:10.1016/j.polymdegradstab.2022.110040.
10. Cecone, C.; Hoti, G.; Zanetti, M.; Trotta, F.; Bracco, P. Sustainable production of curable maltodextrin-based electrospun microfibers. *RSC Adv.* **2022**, *12*, 762–771, doi:10.1039/d1ra06785k.
11. Gastaldi, M.; Roppolo, I.; Chiappone, A.; Garino, C.; Fin, A.; Manachino, M.; Sirianni, P.; Viscardi, G.; Scaltrito, L.; Zanetti, M.; et al. Thermochromic photoluminescent 3D printed polymeric devices based on copper-iodide clusters. *Addit. Manuf.* **2022**, *49*, 102504, doi:10.1016/j.addma.2021.102504.
12. Rubin Pedrazzo, A.; Trotta, F.; Hoti, G.; Cesano, F.; Zanetti, M. Sustainable mechanochemical synthesis of β -cyclodextrin polymers by twin screw extrusion. *Environ. Sci. Pollut. Res.* **2021**, doi:10.1007/s11356-021-15187-5.
13. Caldera, F.; Moramarco, A.; Cesano, F.; Anceschi, A.; Damin, A.; Zanetti, M. Preparation and Carbonization of Glucose and Pyromellitic Dianhydride Crosslinked Polymers. *C* **2021**, *7*, 56.

14. Pedrazzo, A.R.; Cecone, C.; Morandi, S.; Manzoli, M.; Bracco, P.; Zanetti, M. Nanosized SnO₂ Prepared by Electrospinning : Influence of the Polymer on Both Morphology and Microstructure. *Polymers (Basel)*. **2021**, *13*, 12, doi:doi.org/10.3390/polym13060977.
15. Spina, F.; Laura, M.; Poli, A.; Prigione, V.; Ilieva, V.; Cocconcelli, P.; Puglisi, E.; Bracco, P.; Zanetti, M.; Cristina, G. Low density polyethylene degradation by filamentous fungi. *Environ. Pollut.* **2021**, *274*, 116548, doi:10.1016/j.envpol.2021.116548.
16. Gastaldi, M.; Cardano, F.; Zanetti, M.; Viscardi, G.; Barolo, C.; Bordiga, S.; Magdassi, S.; Fin, A.; Roppolo, I. Functional Dyes in Polymeric 3D Printing: Applications and Perspectives. *ACS Mater. Lett.* **2021**, *3*, 1–17, doi:10.1021/acsmaterialslett.0c00455.
17. Rubin Pedrazzo, A.; Cecone, C.; Trotta, F.; Zanetti, M. Mechanochemical synthesis of β -Cyclodextrin Polymers Based on Natural Deep Eutectic Solvents. *ACS Sustain. Chem. Eng.* **2021**, *9*, 14881–14889, doi:10.1021/acssuschemeng.1c04988.
18. Bonomo, M.; Taheri, B.; Bonandini, L.; Castro-Hermosa, S.; Brown, T.M.; Zanetti, M.; Menozzi, A.; Barolo, C.; Brunetti, F. Thermosetting Polyurethane Resins as Low-Cost, Easily Scalable, and Effective Oxygen and Moisture Barriers for Perovskite Solar Cells. *ACS Appl. Mater. Interfaces* **2020**, *12*, 54862–54875, doi:10.1021/acsami.0c17652.
19. Cecone, C.; Hoti, G.; Krabicova, I.; Appleton, S.L.; Caldera, F.; Bracco, P.; Zanetti, M.; Trotta, F. Sustainable synthesis of cyclodextrin-based polymers exploiting natural deep eutectic solvents. *Green Chem.* **2020**, *22*, 5806–5814, doi:10.1039/d0gc02247k.
20. Meo, E. De; Agnelli, S.; Veca, A.; Brunella, V.; Zanetti, M. Piezoresistive and Mechanical Behavior of CNT Based Polyurethane Foam. *J. Compos. Sci.* **2020**, *4*, 1–15, doi:10.3390/jcs4030131.
21. Cesano, F.; Uddin, M.J.; Lozano, K.; Zanetti, M.; Scarano, D.; Bartolomeo, A. Di All-Carbon Conductors for Electronic and Electrical Wiring Applications. *Front. Mater.* **2020**, *7*, doi:10.3389/fmats.2020.00219.
22. Anceschi, A.; Binello, A.; Caldera, F.; Trotta, F.; Zanetti, M. Preparation of Microspheres and Monolithic Microporous Carbons from the Pyrolysis of Oligosaccharides Polymer. *Molecules* **2020**, *25*, 13.
23. Pedrazzo, A.R.; Caldera, F.; Zanetti, M.; Appleton, S.L.; Dahkar, N.K.; Trotta, F. Mechanochemical green synthesis of hyper-crosslinked cyclodextrin polymers. *Beilstein J. Org. Chem* **2020**, *16*, 1554–1563, doi:10.3762/bjoc.16.127.
24. Dompé, M.; Vahdati, M.; van Ligten, F.; Cedano-Serrano, F.J.; Hourdet, D.; Creton, C.; Zanetti, M.; Bracco, P.; van der Gucht, J.; Kodger, T.; et al. Enhancement of the Adhesive Properties by Optimizing the Water Content in PNIPAM-Functionalized Complex Coacervates. *ACS Appl. Polym. Mater.* **2020**, *2*, 1722–1730, doi:10.1021/acsapm.0c00185.
25. Anceschi, A.; Caldera, F.; Bertasa, M.; Cecone, C.; Trotta, F.; Bracco, P.; Zanetti, M.; Malandrino, M.; Mallon, P.E.; Scalarone, D. New Poly (β -Cyclodextrin)/ Poly (Vinyl Alcohol) Electrospun Sub-Micrometric Fibers and their Potential Application for Wastewater Treatments. *Nanomaterials* **2020**, *10*, 1–15, doi:10.3390/nano10030482.
26. Hamedi, A.; Trotta, F.; Zarandi, M.B.; Zanetti, M. In Situ Synthesis of MIL-100 (Fe) at the Surface of Fe₃O₄ @ AC as Highly Efficient Dye Adsorbing Nanocomposite. *Int. J. Mol. Sci.* **2019**, *20*, doi:https://doi.org/10.3390/ijms20225612.
27. Dhakar, N.K.; Matencio, A.; Caldera, F.; Argenziano, M.; Cavalli, R.; Dianzani, C.; Zanetti, M.; López-Nicolás, J.M.; Trotta, F. Comparative evaluation of solubility, cytotoxicity and photostability studies of resveratrol and oxyresveratrol loaded nanosponges. *Pharmaceutics*

2019, *11*, 1–15, doi:10.3390/pharmaceutics11100545.

28. Roppolo, I.; Frascella, F.; Gastaldi, M.; Castellino, M.; Ciubini, B.; Barolo, C.; Scaltrito, L.; Nicosia, C.; Zanetti, M.; Chiappone, A. Thiol–yne chemistry for 3D printing: exploiting an off-stoichiometric route for selective functionalization of 3D objects. *Polym. Chem.* **2019**, 16–18, doi:10.1039/c9py00962k.
29. Luda, M.P.; Zanetti, M. Cyclodextrins and Cyclodextrin Derivatives as Green Char Promoters in Flame Retardants Formulations for Polymeric Materials. A Review. *Polymers (Basel)*. **2019**, *11*, 664, doi:10.3390/polym11040664.
30. Ceccone, C.; Zanetti, M.; Anceschi, A.; Caldera, F.; Trotta, F.; Bracco, P. Microfibers of microporous carbon obtained from the pyrolysis of electrospun β -cyclodextrin/pyromellitic dianhydride nanosponges. *Polym. Degrad. Stab.* **2019**, *161*, 277–282, doi:10.1016/j.polymdegradstab.2019.02.001.
31. Gnavi, S.; Morano, M.; Fornasari, B.E.B.E.; Riccobono, C.; Tonda-Turo, C.; Zanetti, M.; Ciardelli, G.; Gambarotta, G.; Perroteau, I.; Geuna, S.; et al. Combined Influence of Gelatin Fibre Topography and Growth Factors on Cultured Dorsal Root Ganglia Neurons. *Anat. Rec.* **2018**, *00*, doi:10.1002/ar.23846.
32. Cimino, D.; Rollo, G.; Zanetti, M.; Bracco, P. 3d printing technologies: are their materials safe for conservation treatments ? In Proceedings of the Florence Heri-Tech 2018 - The Future of Heritage Science and Technologies; Florence; Italy; 16 May 2018 through 18 May 2018; Code 137444; Volume 364, Issue 1, 18 June 2018, Article number 012029; IOP Conference Series: Materials Science and Engineering IOP Conference Series: Materials Science and Engineering, Ed.; 2018; Vol. 364.
33. Ceccone, C.; Caldera, F.; Anceschi, A.; Scalarone, D.; Trotta, F.; Bracco, P.; Zanetti, M. One-step facile process to obtain insoluble polysaccharides fibrous mats from electrospinning of water-soluble PMDA/cyclodextrin polymer. *J. Appl. Polym. Sci.* **2018**, *135*, 46490, doi:10.1002/app.46490.
34. Gnavi, S.; Fornasari, B.E.; Tonda-Turo, C.; Laurano, R.; Zanetti, M.; Ciardelli, G.; Geuna, S. In vitro evaluation of gelatin and chitosan electrospun fibres as an artificial guide in peripheral nerve repair: a comparative study. *J. Tissue Eng. Regen. Med.* **2018**, *12*, e679–e694, doi:10.1002/term.2351.
35. Anceschi, A.; Guerretta, F.; Magnacca, G.; Zanetti, M.; Benzi, P.; Trotta, F.; Caldera, F.; Nisticò, R. Sustainable N-containing biochars obtained at low temperatures as sorbing materials for environmental application: Municipal biowaste-derived substances and nanosponges case studies. *J. Anal. Appl. Pyrolysis* **2018**, *134*, 606–613, doi:10.1016/j.jaap.2018.08.010.
36. Ceccone, C.; Caldera, F.; Trotta, F.; Bracco, P.; Zanetti, M. Controlled release of DEET loaded on fibrous mats from electrospun PMDA/cyclodextrin polymer. *Molecules* **2018**, *23*, 1–9, doi:10.3390/molecules23071694.
37. Caldera, F.; Pedrazzo, A.R.; Anceschi, A.; Zanetti, M.; Trotta, F. Nanospugne di ciclodestrine. *La Chim. e l'Industria* **2017**, *6*, 10–16.
38. Caldera, F.; Tannous, M.; Cavalli, R.; Zanetti, M.; Trotta, F. Evolution of Cyclodextrin Nanosponges. *Int. J. Pharm.* **2017**, *2*, 470–479, doi:10.1016/j.ijpharm.2017.06.072.
39. Anceschi, A.; Magnacca, G.; Trotta, F.; Zanetti, M. Preparation and characterization of microporous carbon spheres from high amylose pea maltodextrin. *RSC Adv.* **2017**, *7*, 36117–36123, doi:10.1039/C7RA05343F.
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Bodoardo, S.; Penazzi, N. Dual confinement of sulphur with rGO-wrapped microporous carbon from β -cyclodextrin nanosponges as a cathode material for Li–S batteries. *J. Solid State Electrochem.* **2017**, 1–10.

41. Morandi, S.; Cecone, C.; Marchisio, G.; Bracco, P.; Zanetti, M.; Manzoli, M. Shedding light on precursor and thermal treatment effects on the nanostructure of electrospun TiO₂ fibers. *Nano-Structures & Nano-Objects* **2016**, 7, 49–55, doi:10.1016/j.nanoso.2016.05.003.
42. Regis, M.; Zanetti, M.; Pressacco, M.; Bracco, P. Opposite role of different carbon fiber reinforcements on the non-isothermal crystallization behavior of poly(etheretherketone). *Mater. Chem. Phys.* **2016**, 179, 223–231, doi:10.1016/j.matchemphys.2016.05.034.
43. Gentiluomo, S.; Veca, A.D.; Monti, M.; Zacccone, M.; Zanetti, M. Fire behavior of polyamide 12 nanocomposites containing POSS and CNT. *Polym. Degrad. Stab.* **2016**, 134, 151–156, doi:10.1016/j.polymdegradstab.2016.10.005.
44. Cipriani, E.; Zanetti, M.; Bracco, P.; Brunella, V.; Luda, M.P.; Costa, L. Crosslinking and carbonization processes in PAN films and nanofibers. *Polym. Degrad. Stab.* **2016**, 123, 178–188, doi:10.1016/j.polymdegradstab.2015.11.008.
45. Zanetti, M.; Anceschi, A.; Magnacca, G.; Spezzati, G.; Caldera, F.; Rosi, G.P.G.P.; Trotta, F. Micro porous carbon spheres from cyclodextrin nanosponges. *Microporous Mesoporous Mater.* **2016**, 235, 178–184, doi:10.1016/j.micromeso.2016.08.012.
46. Gnavi, S.; Fornasari, B.E.; Tonda-Turo, C.; Ciardelli, G.; Zanetti, M.; Geuna, S.; Perroteau, I. The influence of electrospun fibre size on Schwann cell behaviour and axonal outgrowth. *Mater. Sci. Eng. C* **2015**, 48, 620–631, doi:10.1016/j.msec.2014.12.055.
47. Gnavi, S.; Fornasari, B.; Tonda-Turo, C.; Laurano, R.; Zanetti, M.; Ciardelli, G.; Geuna, S. The Effect of Electrospun Gelatin Fibers Alignment on Schwann Cell and Axon Behavior and Organization in the Perspective of Artificial Nerve Design. *Int. J. Mol. Sci.* **2015**, 16, 12925–12942, doi:10.3390/ijms160612925.
48. Calzolari, A.; Tommasone, M.; Zanetti, M.; Regis, M.; D’Acerno, F. Impact characterization of polymer composites based on peek and carbon fibres. In Proceedings of the 16th European Conference on Composite Materials, ECCM 2014; European Conference on Composite Materials, ECCM, 2014.
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50. Haznedar, G.; Cravanzola, S.; Zanetti, M.; Scarano, D.; Zecchina, A.; Cesano, F. Graphite nanoplatelets and carbon nanotubes based polyethylene composites: Electrical conductivity and morphology. *Mater. Chem. Phys.* **2013**, 143, 47–52, doi:10.1016/j.matchemphys.2013.08.008.
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52. Samadi, M.; Shivaee, H.A.; Zanetti, M.; Pourjavadi, A.; Moshfegh, A. Visible light photocatalytic activity of novel MWCNT-doped ZnO electrospun nanofibers. *J. Mol. Catal. A Chem.* **2012**, 359, 42–48, doi:10.1016/j.molcata.2012.03.019.
53. Cipriani, E.; Zanetti, M.; Brunella, V.; Costa, L.; Bracco, P. Thermoplastic polyurethanes with polycarbonate soft phase: Effect of thermal treatment on phase morphology. *Polym. Degrad. Stab.* **2012**, 97, 1794–1800, doi:10.1016/j.polymdegradstab.2012.06.004.

54. Trotta, F.; Zanetti, M.; Cavalli, R. Cyclodextrin-based nanosponges as drug carriers. *Beilstein J. Org. Chem.* **2012**, *8*, 2091–9, doi:10.3762/bjoc.8.235.
55. Luda, M.P.; Balabanovich, A.I.I.; Zanetti, M. Pyrolysis of fire retardant anhydride-cured epoxy resins. *J. Anal. Appl. Pyrolysis* **2010**, *88*, 39–52, doi:10.1016/j.jaap.2010.02.008.
56. Barus, S.; Zanetti, M.; Bracco, P.; Musso, S.; Chiodoni, A.; Tagliaferro, A. Influence of MWCNT morphology on dispersion and thermal properties of polyethylene nanocomposites. *Polym. Degrad. Stab.* **2010**, *95*, 756–762, doi:10.1016/j.polymdegradstab.2010.02.013.
57. Gestí, S.; Zanetti, M.; Lazzari, M.; Franco, L.; Puiggalí, J. Degradable polyoctamethylene suberate/clay nanocomposites. Crystallization studies by DSC and simultaneous SAXS/WAXD synchrotron radiation. *Eur. Polym. J.* **2009**, *45*, 398–409, doi:10.1016/j.eurpolymj.2008.10.037.
58. Bertarione, S.; Bonino, F.; Cesano, F.; Jain, S.; Zanetti, M.; Scarano, D.; Zecchina, A. Micro-FTIR and micro-raman studies of a carbon film prepared from furfuryl alcohol polymerization. *J. Phys. Chem. B* **2009**, *113*, 10571–4, doi:10.1021/jp9050534.
59. Barus, S.; Zanetti, M.; Lazzari, M.; Costa, L. Preparation of polymeric hybrid nanocomposites based on PE and nanosilica. *Polymer (Guildf)*. **2009**, *50*, 2595–2600, doi:10.1016/j.polymer.2009.04.012.
60. Musso, S.; Zanetti, M.; Giorcelli, M.; Tagliaferro, A.; Costa, L. Gas Chromatography Study of Reagent Degradation During Chemical Vapor Deposition of Carbon Nanotubes. *J. Nanosci. Nanotechnol.* **2008**, *9*, 3593–3598, doi:10.1166/jnn.2009.NS35.
61. Gestí, S.; Zanetti, M.; Lazzari, M.; Franco, L.; Puiggalí, J. Study of clay nanocomposites of the biodegradable polyhexamethylene succinate. Application of isoconversional analysis to nonisothermal crystallization. *J. Polym. Sci. Part B Polym. Phys.* **2008**, *46*, 2234–2248, doi:10.1002/polb.21555.
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Marco Zanetti