A/Prof Chiara Neto - PUBLICATION LIST, April 2016

Journal articles published:

The asterisk * indicates publications in which Neto is the corresponding author. Impact factor (**IF**) is indicated, together with number of citations (**CIT**) for papers published before 2014.

1. L. R. J. Scarratt, B. S. Hoatson, E.S. Wood, B.S. Hawkett, **C. Neto***; "Durable Superhydrophobic Surfaces Via Spontaneous Wrinkling of Teflon" *ACS Appl. Mater. Interfaces 8*, 6743–6750 (2016).
2. O. Al-Khayat, K. Geraghty, K. Shou, A. Nelson, **C. Neto***; "Chain collapse and interfacial slip of polystyrene films in good/non-solvent vapor mixtures" *Macromolecules, 49*,1344–1352 (2016).
3. A. M. Telford, C. D. Easton; B. S. Hawkett, **C. Neto**; "Waterborne, all-polymeric, colloidal 'raspberry' particles with controllable hydrophobicity and water droplet adhesion properties" *Thin Solid Films*, 603, v69-73 (2016).
4. E. Charrault, T. Lee, C. D. Easton, **C. Neto***; "Boundary flow on end-grafted PEG brushes" *Soft Matter*, 12, 1906 -1914 (2016).
5. M. Rowe, G. Teo, J. Horne, O. Al-Khayat, **C. Neto**, S. Thickett; "High Glass Transition Temperature Fluoropolymers for Hydrophobic Surface Coatings via RAFT Copolymerization" *Austr. J. Chem.* Accepted (2016)
6. I. Wong, G.H. Teo, **C. Neto**, S.C. Thickett, "Micropatterned Surfaces for Atmospheric Water Condensation via Controlled Radical Polymerization and Thin Film Dewetting", *ACS Appl. Mater. Interfaces*, 7, 21562−21570 (2015).
7. M. Ghezzi, P.-Y. Wang, P. Kingshott, **C. Neto***, "Guiding the Dewetting of Thin Polymer Films by Colloidal Imprinting", *Adv. Mater. Interf.* 2, 1500068, **with back cover** (2015).
8. T. Lee, S. C. Hendy, and **C. Neto**; "Control of nanoparticle formation using the constrained dewetting of polymer brushes", *Nanoscale*, 7, 2894–2899 (2015) (**IF** = 6.739).
9. P. Priyananda, A.M. Djerdjev, J. Gore, **C. Neto**, J.K. Beattie, B.S. Hawkett; "Premature detonation of an NH_4NO_3 emulsion in reactive ground"; *J. Hazard. Mater.* 283, 314–320 (2015) (**IF** = 4.331).
10. Ghezzi, S. C. Thickett, A. M. Telford, C. D. Easton, L. Meagher, and **C. Neto***; "Protein Micropatterns by PEG Grafting on Dewetted PLGA Films", *Langmuir* 30, 11714-11722 (2014) (**IF** = 4.19).
11. T. Lee, E. Charrault and **C. Neto***; "Interfacial Slip on Rough, Patterned and Soft Surfaces: a Review of Experiments and Simulations"; *Adv. Colloid Interface Sci.,* 210, 21-38 (2014) (**IF** = 6.169)
12. T. Lee, S.C. Hendy, **C. Neto**; "Tunable Nano-Patterns via the Constrained Dewetting of Polymer Brushes"; *Macromolecules,* 46, 6326–6335, (2013) (**IF** = 5.52, **CIT** = 3)
13. A.M. Telford, B.S. Hawkett, C. Such, **C. Neto***; "Mimicking the Wettability of the Rose Petal using Self-assembly of Waterborne Polymer Particles"; *Chem. Mater.,* 25, 3472–3479 (2013) (**IF** = 8.24, **CIT** = 9)
14. A.M. Telford, B.T.T. Pham, **C. Neto**, B.S. Hawkett; "Micron-Sized Polystyrene Particles by Surfactant-Free Emulsion Polymerization in Air: Synthesis and Mechanism"; *J. Polym. Sci: A*, 51, 3997-4002, (2013) (**IF** = 3.543, **CIT** = 7), **with front cover**
15. A.M. Telford, L. Meagher, **C. Neto**; "Robust grafting of PEG-methacrylate brushes from polymeric coatings"; *Polymer,* 54, 5490-5498 (2013) (**IF** = 3.379, **CIT** = 2)
16. S.K. Lim, S. Perrier, **C**. **Neto***; "Patterned chemisorption of proteins by thin polymer film dewetting"; *Soft Matter,* 9, 2598-2602 (2013) (**IF** = 3.91, **CIT** = 6)

17. S.C. Thickett, J. Moses, J.R. Gamble, **C. Neto***; "Micropatterned Substrates Made by Polymer Bilayer Dewetting and Collagen Nanoscale Assembly Support Endothelial Cell Adhesion"; *Soft Matter,* 8, 9996-10007 (2012) (**IF** = 3.91, **CIT** = 5), **with inside cover**
18. A.M. Telford, L. Meagher, V. Glattauer, T.R. Gengenbach, C.D. Easton, **C. Neto*;** "Micro-patterning of polymer brushes: grafting from dewetting polymer films for biological applications"'; *Biomacromolecules,* 13, 2989–2996 (2012) (**IF** = 5.37, **CIT** = 16)
19. T. Lee, S.C. Hendy, **C. Neto***; "Interfacial Flow of Simple Liquids on Polymer Brushes: Effect of Solvent Quality and Grafting Density"; *Macromolecules*, 45, 6241–6252 (2012) (**IF** = 5.52, **CIT** = 4)
20. M. Ghezzi, S.C. Thickett, **C**. **Neto***; "Early and Intermediate Stages of Guided Dewetting in Polystyrene Thin Films"; *Langmuir,* 28, 10147-10151 (2012) (**IF** = 4.19, **CIT** = 11)
21. L. Zhu, **C. Neto***, P. Attard; "Reconciling Slip Measurements in Symmetric and Asymmetric Systems"; *Langmuir,* 28, 7768−7774 (2012) (**IF** = 4.19, **CIT** = 11)
22. L. Zhu, **C. Neto***, P. Attard; "Reliable Measurements of Interfacial Slip by Colloid Probe Atomic Force Microscopy. III. Shear-Rate-Dependent Slip"; *Langmuir,* 28, 3465-3473 (2012) (**IF** = 4.19, **CIT** = 8)
23. A.M. Telford, S.C. Thickett, M. James, **C. Neto***; "Competition between Dewetting and Cross-Linking in Poly(N-vinylpyrrolidone)/Polystyrene Bilayer Films"; *Langmuir,* **27**, 14207-14217 (2011) (**IF** = 4.19, **CIT** = 4)
24. S.C. Thickett, **C. Neto***, and A.T. Harris; "Biomimetic Surface Coatings for Atmospheric Water Capture Prepared by Dewetting of Polymer Films"; *Adv. Mater.*, **23,** 3718-3722 (2011) (**IF** = 14.83, **CIT** = 39)
25. L. Zhu, P. Attard, **C. Neto**; "Reliable measurements of interfacial slip by colloid probe atomic force microscopy. I. Mathematical modeling"; *Langmuir*, 27, 6701-6711 (2011) (**IF** = 4.19, **CIT** = 15)
26. L. Zhu, P. Attard, **C. Neto***; "Reliable measurements of interfacial slip by colloid probe atomic force microscopy. II. Hydrodynamic force measurements"; *Langmuir*, 27, 6712-6719 (2011) (**IF** = 4.19, **CIT** = 21)
27. G. R. Willmott, **C. Neto**, S.C. Hendy; "Uptake of water droplets by non-wetting capillaries"; *Soft Matter*, 7 (6), 2165-3024 (2011) (**IF** = 3.91, **CIT** = 9), **with front cover**
28. S.C. Thickett, A. Harris, **C. Neto***; "Interplay between dewetting and layer inversion in poly(4-vinylpyridine)/polystyrene bilayers"; *Langmuir*, 26, 15989-15999 (2010) (**IF** = 4.19, **CIT** = 10)
29. A.M. Telford, M. James, L. Meagher, **C. Neto***; "Thermally cross-linked PNVP films as antifouling coatings for biomedical applications"; *ACS Appl. Mater. Interfaces*, 2, 2399-2408 (2010) (**IF** = 5.008, **CIT** = 28)
30. G.R. Willmott, **C. Neto** and S.C. Hendy; "An experimental study of microfluidic interactions between droplets and a nonwetting capillary"; *Faraday Discussions*, 146, 233-245 (2010) (**IF=** 3.821, **CIT** = 9)
31. K.R. Joseph, **C. Neto***; "On the superhydrophobic properties of crystallised stearic acid"; *Austr. J. Chem.,* 63, 525-528 (2010) (**IF=** 1.869, **CIT** = 1)
32. C. Martelli, J. Canning, T. Khoury, N. Skivesen, M. Kristensen, G. Huyang, **C. Neto**, T. J. Sum, M. B. Hovgaard, and M. J. Crossley; "Self-assembled porphyrin microrods and observation of structure-induced iridescence"; *J. Mater. Chem*., 20, 2310 - 2316 (2010) (**IF=** 6.108, **CIT** = 8)
33. W. Sriprom, **C. Neto**, S. Perrier; "Rapid photochromic nanopatterns from block copolymers"; *Soft Matter,* 6, 909-914 (2010) (**IF** = 3.91, **CIT** = 10), **with front cover**
34. G. Huyang, J. Canning, B.T. Gibson, T. Khoury, T.J. Sum, C. **Neto**, M.J. Crossley; "Focused ion beam processing and engineering of devices in self-assembled supramolecular structures"; *Nanotechnology*, 20, 485301 (2009) (**IF=** 3.842, **CIT** = 4)

35. **C. Neto***, K.R. Joseph, W.R. Brant; “On the superhydrophobic properties of nickel nanocarpets”; *Phys. Chem. Chem. Phys,* 11, 9537 - 9544 (2009, **CIT** = 12)
36. **C. Neto***, M. James, A.M. Telford; “On the Composition of the Top Layer of Microphase Separated Thin PS-PEO Films”; *Macromolecules*, 42, 4801-8 (2009) (**IF** = 5.52, **CIT** = 23)
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39. **C. Neto***, D.R. Evans, E. Bonaccurso, H.-J. Butt and V.S.J. Craig; “Boundary Slip in Newtonian Liquids: a review of experimental studies”; *Rep. Progr. Phys*., 68, 2859-2897 (2005) (**IF** = 13.232; **CIT** = 430)
40. **C. Neto**, M. Bonini and P. Baglioni; “Self-assembly of magnetic nanoparticles into complex superstructures: spokes and spirals”; *Coll. Surf. A,* 269, 96–100 (2005) (**IF**= 2.108, **CIT** = 17)
41. R. Seemann, S. Herminghaus, **C. Neto**, S. Schlagowski, D. Podzimek, R. Konrad, H. Mantz and K. Jacobs; “Dynamics and Structure Formation in Thin Polymer Melt Films”; *J. Phys.: Condens. Matter,* 17**,** S267-S290 (2005) (**IF** = 2.355, **CIT** = 102)
42. **C. Neto** and K. Jacobs; “Dynamics of Hole Growth in Dewetting Polystyrene Films”; *Physica A,* 339, 66-71 (2004) (**IF** = 1.676, **CIT** = 25)
43. C.L. Henry, **C. Neto**, D.R. Evans, S. Biggs, V.S.J. Craig; “The Effect of Surfactant Adsorption on Liquid Boundary Slippage”; *Physica A,* 339, 60-65 (2004) (**IF** = 1.676, **CIT** = 23)
44. **C. Neto**, K. Jacobs, R. Seemann, R. Blossey, J. Becker, G. Grün; “Satellite Hole Formation during Dewetting: Experiment and Simulation”; *J. Phys.: Condens. Matter,* 15, 3355-3366 (2003) (**IF** = 2.355, **CIT** = 27)
45. **C. Neto**, K. Jacobs, R. Seemann, R. Blossey, J. Becker, G. Grün; “Correlated Dewetting Patterns in Thin Polystyrene Films”; *J. Phys.: Condens. Matter,* 15, S421-S426 (2003) (**IF**= 2.355, **CIT** =19)
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47. M. Bonini, U. Bardi, D. Berti, **C. Neto**, P. Baglioni; “A New Way to Prepare Nanoparticles and Nanostructured Materials: Flame Spraying of Microemulsions”; *J. Phys. Chem*. B*.,* 106, 6178-6183 (2002) (**IF** = 3.61, **CIT** = 52)
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49. **C. Neto**, V.S.J. Craig; “Colloid Probe Characterisation: Radius and Roughness Determination”; *Langmuir,* 17, 2097-2099 (2001) (**IF** = 4.19, **CIT** = 56)
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51. M. Ambrosi, L. Dei, R. Giorgi, **C. Neto**, P. Baglioni; “Colloidal particles of $Ca(OH)_2$: Properties and applications to restoration of frescoes”; *Langmuir,* 17, 4251-4255 (2001) (**IF** = 4.19, **CIT** = 68)
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53. R. Ricceri, **C. Neto**, A. Abbotto, A. Facchetti, G.A. Pagani; “Morphological Characterisation of H Aggregates in Langmuir-Blodgett Films of Pyridinium-Dicyanomethanide Dyes”; *Langmuir,* 15, 2149-2151 (1999) (**IF** = 4.19, **CIT** = 20)

Refereed conference articles

54. K.A. Badiola,K. Bartimote-Aufflick, A.J. Bridgeman, A.V. George, T.S. Hudson, **C. Neto**, S. A. Schmid; "Using Interactive Lecture Demonstrations to Invigorate Chemistry Lectures"; Proceedings of The Australian Conference on Science and Mathematics Education (2013)
55. Canning J, Huyang G, Gibson BC, Neto C, Khoury T, Martelli C, Skivesen N, Sum TJ, Kristensen M, Crossley MJ; "Supramolecular porphyrin wires and post-processing"; 14th OptoElectronics and Communications Conference, Hong Kong, July 2009, 288-289.
56. Canning J, Gibson B, Huyang G, Khoury T, Sum TJ, **Neto C**, Crossley MJ; "Processing waveguide photonic components into self-assembled organic films"; 14th OptoElectronics and Communications Conference, Hong Kong, July 2009, 294-295.
57. C. Martelli, J. Canning, N. Skivesen, M. Kristensen, M. B. Vovgaard, M. J. Crossley, T. Khoury, J. S. Tze, G. Shu and **C. Neto**; "Long self-assembled organic molecular optical wires", Lasers and Electro-Optics Society Annual Meeting-LEOS, 2008.
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59. Ambrosi, M., Dei, L., Giorgi, R., **Neto, C**. & Baglioni, P.; "Stable dispersions of $Ca(OH)_2$ in aliphatic alcohols: properties and application in cultural heritage conservation"; in *Trends in Colloid and Interface Science, XV*; Book series: Progress in Colloid and Polymer Science Vol. 118, 68-72 (2001).
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Un-refereed conference proceedings

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62. Richez, A., Perrier, S., Neto, C., Thurecht, K. J. & Howdle, S. M; "Phase segregated particles formed by block copolymerization in scCO2 controlled by RAFT"; *Abstr. Pap. Am. Chem. Soc*. (POLY 403), 238 (2009)

Case study in a book

C. Neto; Case study "The Superhydrophobic Lotus Leaf" In *Physics*, Serway, R. A.; Jewett, J. W.; Wilson, K.; Wilson, A., Eds. Cengage Learning Australia: 2012; Vol. 1.

Patents

Provisional patent in collaboration: J. K. Beattie, A. M. Djerdjev, B. S. Hawkett, C. Neto and P. Priyananda, 'Blast agent', 2015.