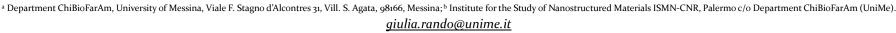
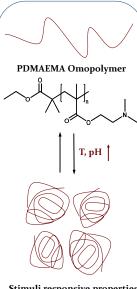


Pillararene-Based PES blended polymers: Design, Preparation and Sustainable Applications

Anna Notti^a, Giulia Rando^a, Maria Rosaria Plutino^b

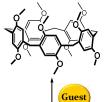








Decamethoxy Pillar[5]arene

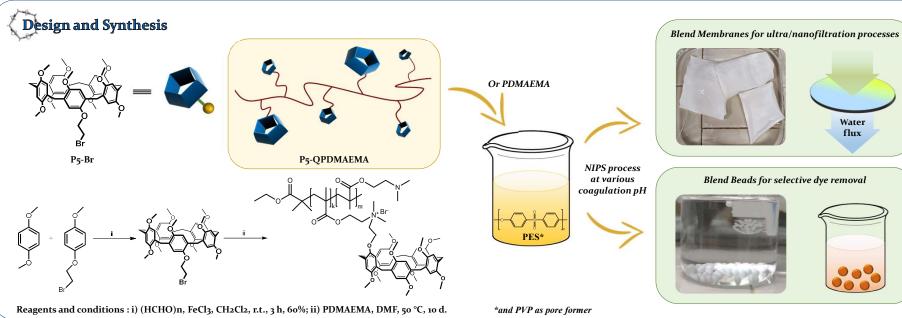




Host-guest properties of pillar[5]arenes.²

V. Bütün et al., *Polymer* **2001**, *42*, 5993–6008;
T. Ogoshi et al., *J. Am. Chem. Soc.*

2008, 130, 5022-5023.

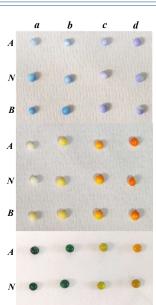


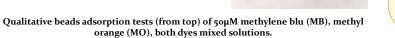
Results and Conclusions

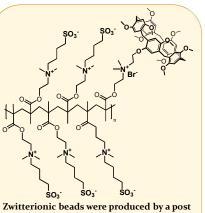
Name	Polymer Blends
а	PES
b	PES(90%)/PVP(10%)
с	PES(90%)/PVP(5%)/PDMAEMA(5%)
d	PES(90%)/PVP(5%)/ P5-QPDMAEMA(5%)







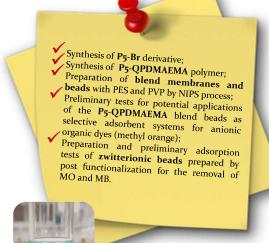




Zwitterionic beads were produced by a post functionalization of «B-d» beads with 1,4butansultone, CH₃OH, 40 °C, 12h.



Qualitative zwitterionic beads adsorption tests (from left) of 50µM methylene blu, methyl orange, both dyes mixed solutions.



Acknowledgments

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Preliminary release tests in EtOH after

MO+MB adsorption by the zwitterionic