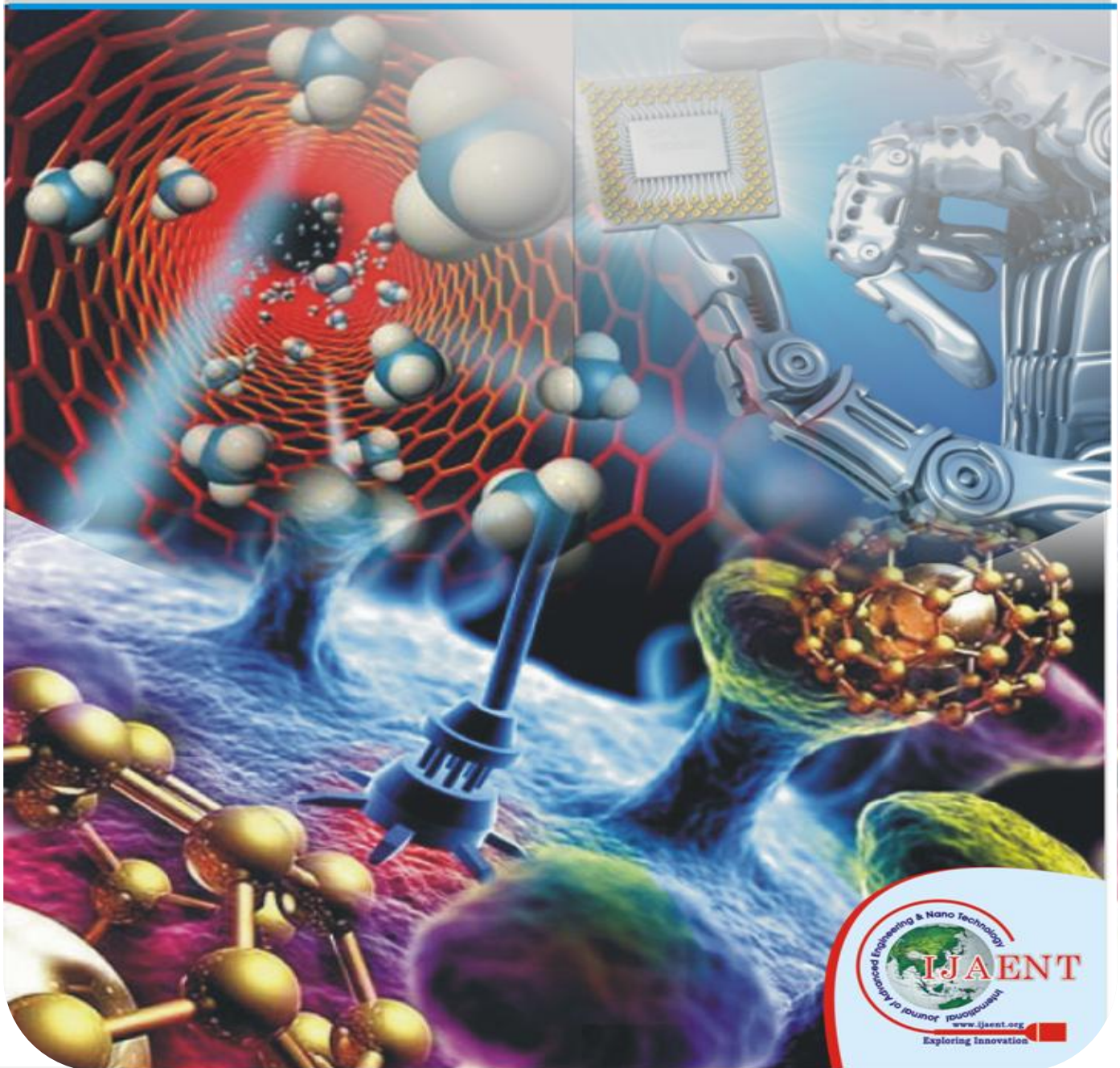


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Authors:	Saeed Ashtiani, Mehdi Khoshnamvand, Anna Shaliutina-Kolešová	
Paper Title:	A fundamental study of Morphology Prediction for Nano and Microstructure of PVDF for Membrane Fabrication and Film Formation Applications	
	<p>Abstract: This study examine the indispensable science of fabricating poly (vinylidene fluoride) (PVDF) as a hydrophobic polymer which can produced via the phase inversion method for membranes and film formation well as a strategy to fabricate a nano and micro size of PVDF films for further applications . A series of isothermal ternary phase diagrams of PVDF/solvents/nonsolvent systems were prepared. The binodal curves were gained by testing each point three times via simple titration method. Evidence of SEM imaging and AFM topology of membranes indicate different nano and micro structure on the surfaces and bulk of PVDF membrane. Based on this research which can be used as a fundamental research for any film and membrane applications; predicting the desire morphology membranes and films with specific amount of polymer and type of non-solvent is feasible.</p>	
	<p>Keywords: PVDF, Nano and Micro Structure, Film Formation, Membrane Applications</p>	
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