Argyrios Karatrantos

List of Publications by Citations

22 papers	575 citations	13 h-index	23 g-index
24 ext. papers	681 ext. citations	4.4 avg, IF	4.27 L-index

#	Paper	IF	Citations
22	Modeling of Polymer Structure and Conformations in Polymer Nanocomposites from Atomistic to Mesoscale: A Review. *Polymer Reviews*, **2016**, 56, 385-428	14	97
21	Polymer conformations in polymer nanocomposites containing spherical nanoparticles. *Soft Matter*, **2015**, 11, 382-8	3.6	62
20	Structure and Conformations of Polymer/SWCNT Nanocomposites. *Macromolecules*, **2011**, 44, 9830-9838	5.5	59
19	Topological entanglement length in polymer melts and nanocomposites by a DPD polymer model. *Soft Matter*, **2013**, 9, 3877	3.6	58
18	Entanglements in polymer nanocomposites containing spherical nanoparticles. *Soft Matter*, **2016**, 12, 2567-74	3.6	52
17	Entanglements and Dynamics of Polymer Melts near a SWCNT. *Macromolecules*, **2012**, 45, 7274-7281	5.5	45
16	Polymer and spherical nanoparticle diffusion in nanocomposites. *Journal of Chemical Physics*, **2017**, 146, 203331	3.9	40
15	Modeling of Entangled Polymer Diffusion in Melts and Nanocomposites: A Review. *Polymers*, **2019**, 11,	4.5	22
14	A micromechanics approach for the effective thermal conductivity of composite materials with general linear imperfect interfaces. *Composite Structures*, **2018**, 200, 747-756	5.3	21
13	Nanorod Diffusion in Polymer Nanocomposites by Molecular Dynamics Simulations. *Macromolecules*, **2019**, 52, 2513-2520	5.5	20
12	Effects of pore size and surface charge on Na ion storage in carbon nanopores. *Physical Chemistry Chemical Physics*, **2016**, 18, 30761-30769	3.6	19
11	A theoretical model for the prediction of diffusion in polymer/SWCNT nanocomposites. *Soft Matter* , **2011**, 7, 7334	3.6	15
10	The effect of different organic solvents on sodium ion storage in carbon nanopores. *Physical Chemistry Chemical Physics*, **2018**, 20, 6307-6315	3.6	14
9	One-component plasma of point charges and of charged rods. *Physical Review E*, **2009**, 80, 061107	2.4	13
8	Miscibility and Nanoparticle Diffusion in Ionic Nanocomposites. *Polymers*, **2018**, 10,	4.5	9
7	The effect of different organic solvents and anion salts on sodium ion storage in cylindrical carbon nanopores. *Physical Chemistry Chemical Physics*, **2019**, 21, 22722-22731	3.6	7
6	Diffusion of ions and solvent in propylene carbonate solutions for lithium-ion battery applications. *Journal of Molecular Liquids*, **2020**, 320, 114351	6	7

List of Publications

5	Isotropic–nematic transition and dynamics of rigid charged molecules. *Chemical Physics Letters*, **2016**, 647, 89-94	2.5	4
4	Insights from modeling into structure, entanglements, and dynamics in attractive polymer nanocomposites. *Soft Matter*, **2021**, 17, 6362-6373	3.6	4
3	Structure, dynamics and primitive path network of polymer nanocomposites containing spherical nanoparticles. *Materials Research Society Symposia Proceedings*, **2014**, 1619, 1		3
2	Polymer Dynamics in Polymer-Nanoparticle Interface. *Springer Series in Materials Science*, **2021**, 81-100	0.9	1
1	Polymer Conformations, Entanglements and Dynamics in Ionic Nanocomposites: A Molecular Dynamics Study. *Polymers*, **2020**, 12,	4.5	1