Aris P Sgouros

List of Publications by Citations

30	301	12	16
papers	citations	h-index	g-index
33	366	4.5	3.93
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
30	Slip-Spring Model for the Linear and Nonlinear Viscoelastic Properties of Molten Polyethylene Derived from Atomistic Simulations. *Macromolecules*, **2017**, 50, 4524-4541	5.5	38
29	Molecular Simulations of Free and Graphite Capped Polyethylene Films: Estimation of the Interfacial Free Energies. *Macromolecules*, **2017**, 50, 8827-8844	5.5	38
28	Molecular dynamics simulations of EPON-862/DETDA epoxy networks: structure, topology, elastic constants, and local dynamics. *Soft Matter*, **2019**, 15, 721-733	3.6	24
27	Compressive response and buckling of graphene nanoribbons. *Scientific Reports*, **2018**, 8, 9593	4.9	20
26	Uniaxial compression of suspended single and multilayer graphenes. *2D Materials*, **2016**, 3, 025033	5.9	18
25	Molecular Dynamics Study of Polyethylene under Extreme Confinement. *Journal of Physics: Conference Series*, **2016**, 738, 012012	0.3	18
24	Multiscale Simulations of Graphite-Capped Polyethylene Melts: Brownian Dynamics/Kinetic Monte Carlo Compared to Atomistic Calculations and Experiment. *Macromolecules*, **2019**, 52, 7503-7523	5.5	13
23	Mesoscopic Simulations of Free Surfaces of Molten Polyethylene: Brownian Dynamics/Kinetic Monte Carlo Coupled with Square Gradient Theory and Compared to Atomistic Calculations and Experiment. *Macromolecules*, **2018**, 51, 9798-9815	5.5	13
22	Self-Consistent Field Theory Coupled with Square Gradient Theory of Free Surfaces of Molten Polymers and Compared to Atomistic Simulations and Experiment. *Macromolecules*, **2019**, 52, 5337-5356	5.5	12
21	Phononic band gap engineering in graphene. *Journal of Applied Physics*, **2012**, 112, 094307	2.5	12
20	Ab initio study of boron and aluminum hydrides nanoparticles. *International Journal of Hydrogen Energy*, **2016**, 41, 20210-20216	6.7	12
19	Slip Spring-Based Mesoscopic Simulations of Polymer Networks: Methodology and the Corresponding Computational Code. *Polymers*, **2018**, 10,	4.5	12
18	Exotic carbon nanostructures obtained through controllable defect engineering. *RSC Advances*, **2015**, 5, 39930-39937	3.7	9
17	Fully Hydrogenated Beryllium Nanoclusters. *Journal of the American Chemical Society*, **2016**, 138, 3218-27	16.4	8
16	Nanoscale phononic interconnects in THz frequencies. *Physical Chemistry Chemical Physics*, **2014**, 16, 23355-64	3.6	7
15	Transforming graphene nanoribbons into nanotubes by use of point defects. *Journal of Physics Condensed Matter*, **2014**, 26, 125301	1.8	6
14	Structure and thermodynamics of grafted silica/polystyrene dilute nanocomposites investigated through self-consistent field theory. *Soft Matter*, **2021**, 17, 4077-4097	3.6	6

List of Publications

13	Atomistic simulations of long-chain polyethylene melts flowing past gold surfaces: structure and wall-slip. *Molecular Physics*, **2020**, 118, e1706775	1.7	5
12	Potential of Mean Force between Bare or Grafted Silica/Polystyrene Surfaces from Self-Consistent Field Theory. *Polymers*, **2021**, 13,	4.5	5
11	Nanoscale Phononic Waveguides and Resonators on the <111> Surface of GeSi. *Journal of Surfaces and Interfaces of Materials*, **2015**, 3, 60-66		4
10	Multiscale simulations of polyzwitterions in aqueous bulk solutions and brush array configurations. *Soft Matter*, **2021**,	3.6	4
9	Computational study of phononic resonators and waveguides in monolayer transition metal dichalcogenides. *Physical Chemistry Chemical Physics*, **2017**, 19, 8082-8090	3.6	3
8	Temperature profiles and thermal conductivities of nanostructured transition metal dichalcogenides. *International Journal of Heat and Mass Transfer*, **2019**, 140, 579-586	4.9	3
7	Molecular Dynamics Test of the Stress-Thermal Rule in Polyethylene and Polystyrene Entangled Melts. *Macromolecules*, **2020**, 53, 789-802	5.5	3
6	Kinetic concepts and local failure in the interfacial shear strength of epoxy-graphene nanocomposites. *Physical Review E*, **2020**, 102, 030501	2.4	2
5	RuSseL: A Self-Consistent Field Theory Code for Inhomogeneous Polymer Interphases. *Computation* , **2021**, 9, 57	2.2	2
4	A three-dimensional finite element methodology for addressing heterogeneous polymer systems with simulations based on self-consistent field theory **2021**,		2
3	Effect of Surface Nanopatterning on Slip: The Case of Couette Flow of Long-Chain Polyethylene Melt Flowing Past Gold Surfaces. *Journal of Physical Chemistry B*, **2021**, 125, 6681-6696	3.4	1
2	Efficient Mechanical Stress Transfer in Multilayer Graphene with a Ladder-like Architecture. *ACS Applied Materials & Interfaces*, **2021**, 13, 4473-4484	9.5	1
1	Reflectivity reduction of nanopatterned c-Si solar cells with antireflective coatings exposed to a wide range of incidence angles. *Photonics and Nanostructures - Fundamentals and Applications*, **2021** , 43, 100893	2.6	0