

Aris P Sgouros

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

301
citations

12
h-index

16
g-index

33
ext. papers

366
ext. citations

4.5
avg, IF

3.93
L-index

#	Paper	IF	Citations
30	Multiscale simulations of polyelectrolytes in aqueous bulk solutions and brush array configurations. <i>Soft Matter</i> , 2021 ,	3.6	4
29	Potential of Mean Force between Bare or Grafted Silica/Polystyrene Surfaces from Self-Consistent Field Theory. <i>Polymers</i> , 2021 , 13,	4.5	5
28	RuSseL: A Self-Consistent Field Theory Code for Inhomogeneous Polymer Interphases. <i>Computation</i> , 2021 , 9, 57	2.2	2
27	Effect of Surface Nanopatterning on Slip: The Case of Couette Flow of Long-Chain Polyethylene Melt Flowing Past Gold Surfaces. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 6681-6696	3.4	1
26	Efficient Mechanical Stress Transfer in Multilayer Graphene with a Ladder-like Architecture. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4473-4484	9.5	1
25	Structure and thermodynamics of grafted silica/polystyrene dilute nanocomposites investigated through self-consistent field theory. <i>Soft Matter</i> , 2021 , 17, 4077-4097	3.6	6
24	Reflectivity reduction of nanopatterned c-Si solar cells with antireflective coatings exposed to a wide range of incidence angles. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021 , 43, 100893	2.6	0
23	A three-dimensional finite element methodology for addressing heterogeneous polymer systems with simulations based on self-consistent field theory 2021 ,		2
22	Molecular Dynamics Test of the Stress-Thermal Rule in Polyethylene and Polystyrene Entangled Melts. <i>Macromolecules</i> , 2020 , 53, 789-802	5.5	3
21	Atomistic simulations of long-chain polyethylene melts flowing past gold surfaces: structure and wall-slip. <i>Molecular Physics</i> , 2020 , 118, e1706775	1.7	5
20	Kinetic concepts and local failure in the interfacial shear strength of epoxy-graphene nanocomposites. <i>Physical Review E</i> , 2020 , 102, 030501	2.4	2
19	Multiscale Simulations of Graphite-Capped Polyethylene Melts: Brownian Dynamics/Kinetic Monte Carlo Compared to Atomistic Calculations and Experiment. <i>Macromolecules</i> , 2019 , 52, 7503-7523	5.5	13
18	Molecular dynamics simulations of EPON-862/DETDA epoxy networks: structure, topology, elastic constants, and local dynamics. <i>Soft Matter</i> , 2019 , 15, 721-733	3.6	24
17	Self-Consistent Field Theory Coupled with Square Gradient Theory of Free Surfaces of Molten Polymers and Compared to Atomistic Simulations and Experiment. <i>Macromolecules</i> , 2019 , 52, 5337-5356	5.5	12
16	Temperature profiles and thermal conductivities of nanostructured transition metal dichalcogenides. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 140, 579-586	4.9	3
15	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. <i>Macromolecules</i> , 2018 , 51, 9798-9815	5.5	13
14	Slip Spring-Based Mesoscopic Simulations of Polymer Networks: Methodology and the Corresponding Computational Code. <i>Polymers</i> , 2018 , 10,	4.5	12

13	Compressive response and buckling of graphene nanoribbons. <i>Scientific Reports</i> , 2018 , 8, 9593	4.9	20
12	Computational study of phononic resonators and waveguides in monolayer transition metal dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8082-8090	3.6	3
11	Slip-Spring Model for the Linear and Nonlinear Viscoelastic Properties of Molten Polyethylene Derived from Atomistic Simulations. <i>Macromolecules</i> , 2017 , 50, 4524-4541	5.5	38
10	Molecular Simulations of Free and Graphite Capped Polyethylene Films: Estimation of the Interfacial Free Energies. <i>Macromolecules</i> , 2017 , 50, 8827-8844	5.5	38
9	Uniaxial compression of suspended single and multilayer graphenes. <i>2D Materials</i> , 2016 , 3, 025033	5.9	18
8	Fully Hydrogenated Beryllium Nanoclusters. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3218-276.4		8
7	Molecular Dynamics Study of Polyethylene under Extreme Confinement. <i>Journal of Physics: Conference Series</i> , 2016 , 738, 012012	0.3	18
6	Ab initio study of boron and aluminum hydrides nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 20210-20216	6.7	12
5	Exotic carbon nanostructures obtained through controllable defect engineering. <i>RSC Advances</i> , 2015 , 5, 39930-39937	3.7	9
4	Nanoscale Phononic Waveguides and Resonators on the <111> Surface of GeSi. <i>Journal of Surfaces and Interfaces of Materials</i> , 2015 , 3, 60-66		4
3	Nanoscale phononic interconnects in THz frequencies. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23355-64	3.6	7
2	Transforming graphene nanoribbons into nanotubes by use of point defects. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 125301	1.8	6
1	Phononic band gap engineering in graphene. <i>Journal of Applied Physics</i> , 2012 , 112, 094307	2.5	12