

Vagelis A Harmandaris

List of Publications by Citations

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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.

87
papers

3,910
citations

31
h-index

62
g-index

98
ext. papers

4,302
ext. citations

4.6
avg, IF

5.66
L-index

#	Paper	IF	Citations
87	Aggregation and vesiculation of membrane proteins by curvature-mediated interactions. <i>Nature</i> , 2007 , 447, 461-4	50.4	595
86	Hierarchical Modeling of Polystyrene: From Atomistic to Coarse-Grained Simulations. <i>Macromolecules</i> , 2006 , 39, 6708-6719	5.5	288
85	Crossover from the Rouse to the Entangled Polymer Melt Regime: Signals from Long, Detailed Atomistic Molecular Dynamics Simulations, Supported by Rheological Experiments. <i>Macromolecules</i> , 2003 , 36, 1376-1387	5.5	179
84	Dynamics of Polystyrene Melts through Hierarchical Multiscale Simulations. <i>Macromolecules</i> , 2009 , 42, 791-802	5.5	168
83	Detailed Atomistic Simulation of a Polymer Melt/Solid Interface: Structure, Density, and Conformation of a Thin Film of Polyethylene Melt Adsorbed on Graphite. <i>Macromolecules</i> , 2005 , 38, 5780-5795	5.5	166
82	Atomistic Molecular Dynamics Simulation of Polydisperse Linear Polyethylene Melts. <i>Macromolecules</i> , 1998 , 31, 7934-7943	5.5	159
81	Molecular Dynamics Simulation of a Polymer Melt/Solid Interface: Local Dynamics and Chain Mobility in a Thin Film of Polyethylene Melt Adsorbed on Graphite. <i>Macromolecules</i> , 2005 , 38, 5796-5809	5.5	152
80	Comparison Between Coarse-Graining Models for Polymer Systems: Two Mapping Schemes for Polystyrene. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 2109-2120	2.6	142
79	Coarse-Grained Polymer Melts Based on Isolated Atomistic Chains: Simulation of Polystyrene of Different Tacticities. <i>Macromolecules</i> , 2009 , 42, 7579-7588	5.5	134
78	Multiscale modeling of soft matter: scaling of dynamics. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10412-20	3.6	133
77	A novel method for measuring the bending rigidity of model lipid membranes by simulating tethers. <i>Journal of Chemical Physics</i> , 2006 , 125, 204905	3.9	101
76	Dynamics of various polymer-graphene interfacial systems through atomistic molecular dynamics simulations. <i>Soft Matter</i> , 2014 , 10, 2876-88	3.6	98
75	Detailed molecular dynamics simulation of the self-diffusion of n-alkane and cis-1,4 polyisoprene oligomer melts. <i>Journal of Chemical Physics</i> , 2002 , 116, 436	3.9	78
74	Effect of solvent on the self-assembly of dialanine and diphenylalanine peptides. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3962-75	3.4	73
73	Structural and Dynamical Properties of Polyethylene/Graphene Nanocomposites through Molecular Dynamics Simulations. <i>Polymers</i> , 2015 , 7, 390-417	4.5	71
72	Predicting polymer dynamics at multiple length and time scales. <i>Soft Matter</i> , 2009 , 5, 3920	3.6	70
71	Ethylbenzene Diffusion in Polystyrene: United Atom Atomistic/Coarse Grained Simulations and Experiments. <i>Macromolecules</i> , 2007 , 40, 7026-7035	5.5	60

70	Structure and dynamics of poly(methyl methacrylate)/graphene systems through atomistic molecular dynamics simulations. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	57
69	Hierarchical simulations of hybrid polymer/solid materials. <i>Soft Matter</i> , 2013 , 9, 6696	3.6	56
68	Fluorescence Correlation Spectroscopy Study of Molecular Probe Diffusion in Polymer Melts. <i>Macromolecules</i> , 2009 , 42, 4858-4866	5.5	54
67	Temperature and Pressure Dependence of Polystyrene Dynamics through Molecular Dynamics Simulations and Experiments. <i>Macromolecules</i> , 2011 , 44, 393-402	5.5	53
66	Self-Consistent-Field Study of Compressible Semiflexible Melts Adsorbed on a Solid Substrate and Comparison with Atomistic Simulations. <i>Macromolecules</i> , 2005 , 38, 7134-7149	5.5	47
65	Atomistic Simulation of Alkanethiol Self-Assembled Monolayers on Different Metal Surfaces via a Quantum, First-Principles Parametrization of the Sulfur/Metal Interaction. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6380-6391	3.8	46
64	Atomistic molecular dynamics simulation of diffusion in binary liquid n-alkane mixtures. <i>Journal of Chemical Physics</i> , 2002 , 116, 7656-7665	3.9	46
63	Edge-Functionalized Graphene as a Nanofiller: Molecular Dynamics Simulation Study. <i>Macromolecules</i> , 2015 , 48, 9024-9038	5.5	45
62	Hierarchical Multiscale Modeling of Polymer/Solid Interfaces: Atomistic to Coarse-Grained Description and Structural and Conformational Properties of Polystyrene/Gold Systems. <i>Macromolecules</i> , 2013 , 46, 5741-5750	5.5	41
61	Atomistic Molecular Dynamics Simulation of Stress Relaxation upon Cessation of Steady-State Uniaxial Elongational Flow. <i>Macromolecules</i> , 2000 , 33, 8062-8076	5.5	41
60	Structural Properties of Atactic Polystyrene of Different Thermal History Obtained from a Multiscale Simulation. <i>Macromolecules</i> , 2009 , 42, 384-391	5.5	36
59	Atomistic molecular dynamics simulation of the temperature and pressure dependences of local and terminal relaxations in cis-1,4-polybutadiene. <i>Journal of Chemical Physics</i> , 2006 , 124, 084906	3.9	33
58	Quantitative Analysis on the Validity of a Coarse-Grained Model for Nonequilibrium Polymeric Liquids under Flow. <i>Macromolecules</i> , 2010 , 43, 3156-3160	5.5	32
57	Structure Of Biomolecules Through Molecular Dynamics Simulations. <i>Procedia Computer Science</i> , 2019 , 156, 69-78	1.6	31
56	Properties of short polystyrene chains confined between two gold surfaces through a combined density functional theory and classical molecular dynamics approach. <i>Soft Matter</i> , 2012 , 8, 6320	3.6	31
55	Properties of Benzene Confined between Two Au(111) Surfaces Using a Combined Density Functional Theory and Classical Molecular Dynamics Approach. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14707-14717	3.8	31
54	Structural and Dynamical Properties of Polystyrene Thin Films Supported by Multiple Graphene Layers. <i>Macromolecules</i> , 2015 , 48, 2761-2772	5.5	29
53	Dynamic heterogeneity in fully miscible blends of polystyrene with oligostyrene. <i>Physical Review Letters</i> , 2013 , 110, 165701	7.4	29

52	Structural and Conformational Properties of Poly(ethylene oxide)/Silica Nanocomposites: Effect of Confinement. <i>Macromolecules</i> , 2017 , 50, 6273-6284	5.5	27
51	Path-space variational inference for non-equilibrium coarse-grained systems. <i>Journal of Computational Physics</i> , 2016 , 314, 355-383	4.1	26
50	Structure, Dynamics, and Apparent Glass Transition of Stereoregular Poly(methyl methacrylate)/Graphene Interfaces through Atomistic Simulations. <i>Macromolecules</i> , 2018 , 51, 7518-7532	5.5	26
49	Hierarchical modelling of polystyrene melts: from soft blobs to atomistic resolution. <i>Soft Matter</i> , 2019 , 15, 289-302	3.6	23
48	Structure and Conformation of Stereoregular Poly(methyl methacrylate) Chains Adsorbed on Graphene Oxide and Reduced Graphene Oxide via Atomistic Simulations. <i>Macromolecules</i> , 2019 , 52, 3825-3838	5.5	21
47	A Molecular Dynamics Study of Polymer/Graphene Nanocomposites. <i>Macromolecular Symposia</i> , 2013 , 331-332, 43-49	0.8	21
46	The geometry of generalized force matching and related information metrics in coarse-graining of molecular systems. <i>Journal of Chemical Physics</i> , 2015 , 143, 084105	3.9	21
45	Molecular dynamics of polyisoprene/polystyrene oligomer blends: the role of self-concentration and fluctuations on blend dynamics. <i>Journal of Chemical Physics</i> , 2013 , 139, 034904	3.9	20
44	Temperature and Pressure Effects on Local Structure and Chain Packing in cis-1,4-Polybutadiene from Detailed Molecular Dynamics Simulations. <i>Macromolecular Theory and Simulations</i> , 2006 , 15, 381-393	1.5	20
43	Dynamics and Structure of Monolayer Polymer Crystallites on Graphene. <i>Nano Letters</i> , 2016 , 16, 6994-7000	5.5	19
42	Interphase of a Polymer at a Solid Interface. <i>Macromolecules</i> , 2014 , 47, 8459-8465	5.5	19
41	Backmapping coarse-grained macromolecules: An efficient and versatile machine learning approach. <i>Journal of Chemical Physics</i> , 2020 , 153, 041101	3.9	19
40	Equilibration and Deformation of Amorphous Polystyrene: Scale-jumping Simulational Approach. <i>Macromolecular Theory and Simulations</i> , 2008 , 17, 290-300	1.5	17
39	Conformations and Dynamics of Polymer Chains in Cis and Trans Polybutadiene/Silica Nanocomposites through Atomistic Simulations: From the Unentangled to the Entangled Regime. <i>Macromolecules</i> , 2020 , 53, 6173-6189	5.5	17
38	Coarse-graining of polyisoprene melts using inverse Monte Carlo and local density potentials. <i>Journal of Chemical Physics</i> , 2020 , 152, 124902	3.9	14
37	Structure and dynamics of stereo-regular poly(methyl-methacrylate) melts through atomistic molecular dynamics simulations. <i>Soft Matter</i> , 2018 , 14, 1449-1464	3.6	14
36	Parameterization of Coarse-Grained Molecular Interactions through Potential of Mean Force Calculations and Cluster Expansion Techniques. <i>Entropy</i> , 2017 , 19, 395	2.8	14
35	Molecular dynamics simulation of temperature and pressure effects on the intermediate length scale dynamics and zero shear rate viscosity of cis-1,4-polybutadiene: Rouse mode analysis and dynamic structure factor spectra. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008 , 152, 184-194	2.7	14

34	Parametric sensitivity analysis for stochastic molecular systems using information theoretic metrics. <i>Journal of Chemical Physics</i> , 2015 , 143, 014116	3.9	13
33	Molecular Simulation Via Connectivity-altering Monte Carlo and Scale-jumping Methods: Application to Amorphous Polystyrene. <i>Macromolecular Theory and Simulations</i> , 2008 , 17, 393-402	1.5	13
32	Dynamics and Rheology of Polymer Melts via Hierarchical Atomistic, Coarse-Grained, and Slip-Spring Simulations. <i>Macromolecules</i> , 2021 , 54, 2740-2762	5.5	12
31	Effect of macromolecular architecture on the self-assembly behavior of copolymers in a selective polymer host. <i>Soft Matter</i> , 2018 , 14, 9562-9570	3.6	12
30	Parametrizing coarse grained models for molecular systems at equilibrium. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 1347-1372	2.3	11
29	Quantitative study of equilibrium and non-equilibrium polymer dynamics through systematic hierarchical coarse-graining simulations 2014 , 26, 15-28		11
28	Nanostructuring Single-Molecule Polymeric Nanoparticles via Macromolecular Architecture. <i>ACS Nano</i> , 2019 , 13, 2439-2449	16.7	10
27	Properties of nanographene in polymer nanocomposites through all-atom simulations: Shape fluctuations and rippling. <i>Computational Materials Science</i> , 2020 , 172, 109330	3.2	8
26	Investigation of the properties of nanographene in polymer nanocomposites through molecular simulations: dynamics and anisotropic Brownian motion. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 23843-23854	3.6	7
25	Bound Layer Polymer Behavior on Graphene and Graphene Oxide Nanosheets. <i>Macromolecules</i> , 2020 , 53, 6190-6203	5.5	6
24	Interface and Interphase in Polymer Nanocomposites with Bare and Core-Shell Gold Nanoparticles. <i>Polymers</i> , 2021 , 13,	4.5	5
23	Spatio-temporal heterogeneities in nanosegregated single-molecule polymeric nanoparticles. <i>Soft Matter</i> , 2020 , 16, 4584-4590	3.6	4
22	Tailoring Interfacial Properties in Polymer/Silica Nanocomposites via Surface Modification: An Atomistic Simulation Study. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2576-2587	4.3	4
21	Self-assembly of diphenylalanine peptides on graphene detailed atomistic simulations. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 27645-27657	3.6	3
20	Bio-waste to Bio-plastic (B2B): Production of Compostable Bio-Plastics from Food Waste. <i>Proceedings (mdpi)</i> , 2019 , 30, 47	0.3	3
19	Self-assembly of Alanine-Isoleucine and Isoleucine-Isoleucine Dipeptides through Atomistic Simulations and Experiments. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7102-7114	3.4	3
18	Gradient of Segmental Dynamics in Stereoregular Poly(Methyl Methacrylate) Melts Confined between Pristine or Oxidized Graphene Sheets. <i>Polymers</i> , 2021 , 13,	4.5	3
17	Modelling of novel polymer materials through atomistic molecular dynamics simulations. <i>Procedia Computer Science</i> , 2018 , 136, 341-350	1.6	3

16	Modeling the evolution of COVID-19 via compartmental and particle-based approaches: Application to the Cyprus case. <i>PLoS ONE</i> , 2021 , 16, e0250709	3.7	2
15	Coupling between Polymer Conformations and Dynamics Near Amorphous Silica Surfaces: A Direct Insight from Atomistic Simulations. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
14	Dynamics of Long Entangled Polyisoprene Melts via Multiscale Modeling. <i>Macromolecules</i> , 2021 , 54, 8693-8713	3.8	1
13	Mechanical properties of glassy polymer nanocomposites via atomistic and continuum models: The role of interphases. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 395, 114905	5.7	2
12	Study of the transient dynamics of coarse-grained molecular systems with the path-space force-matching method. <i>Procedia Computer Science</i> , 2019 , 156, 59-68	1.6	1
11	Neural Network Potential Surfaces: A Comparison of two Approaches. <i>Procedia Computer Science</i> , 2020 , 178, 345-354	1.6	1
10	Dynamical heterogeneities in non-entangled polystyrene and poly(ethylene oxide) star melts. <i>Physics of Fluids</i> , 2020 , 32, 127117	4.4	1
9	Data-driven uncertainty quantification for systematic coarse-grained models. <i>Soft Materials</i> , 2020 , 18, 348-368	1.7	1
8	Size and Shape Characteristics of Polystyrene and Poly(ethylene oxide) Star Polymer Melts Studied By Atomistic Simulations. <i>Macromolecular Theory and Simulations</i> , 2021 , 30, 2000067	1.5	1
7	How Does the Number of Arms Affect the Properties of Mikto-Arm Stars in a Selective Oligomeric Matrix? Insights from Atomistic Simulations. <i>ACS Omega</i> , 2021 , 6, 1138-1148	3.9	1
6	Path space force matching and relative entropy methods for coarse-graining molecular systems at transient regimes. <i>Procedia Computer Science</i> , 2018 , 136, 331-340	1.6	1
5	Polybutadiene Copolymers via Atomistic and Systematic Coarse-Grained Simulations. <i>Macromolecules</i> , 2022 , 55, 224-240	5.5	1
4	Artificial Intelligence as the Driver of Computational Science: preface to YSC2020. <i>Procedia Computer Science</i> , 2020 , 178, 1-7	1.6	0
3	From Order to Disorder of Alkanethiol Self-Assembled Monolayers on Complex Au (211), (221), and (311) Surfaces: Impact of the Substrate. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3495-3508	3.8	0
2	Atomistic Molecular Dynamics Simulations of Polymer/Graphene Nanostructured Systems. <i>Materials Today: Proceedings</i> , 2018 , 5, 27472-27481	1.4	0
1	Systematic Coarse-Grained Models for Molecular Systems Using Entropy. <i>Proceedings (mdpi)</i> , 2020 , 46, 27	0.3	