

# Fernando Vargas-Lara

## List of Publications by Year in descending order

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25  
papers

434  
citations

623734

14  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Internal Structure of Nanoparticle Dimers Linked by DNA. ACS Nano, 2012, 6, 6793-6802.	14.6	43
2	Communication: A comparison between the solution properties of knotted ring and star polymers. Journal of Chemical Physics, 2018, 149, 161101.	3.0	35
3	The interfacial zone in thin polymer films and around nanoparticles in polymer nanocomposites. Journal of Chemical Physics, 2019, 151, 124705.	3.0	33
4	High-speed, high-purity separation of gold nanoparticleâ€“DNA origami constructs using centrifugation. Soft Matter, 2014, 10, 7370.	2.7	29
5	Structure and Dynamics of a Graphene Melt. ACS Nano, 2018, 12, 5427-5435.	14.6	29
6	Molecular rigidity and enthalpyâ€“entropy compensation in DNA melting. Soft Matter, 2017, 13, 8309-8330.	2.7	28
7	Influence of knot complexity on glass-formation in low molecular mass ring polymer melts. Journal of Chemical Physics, 2019, 150, 101103.	3.0	28
8	Intrinsic conductivity of carbon nanotubes and graphene sheets having a realistic geometry. Journal of Chemical Physics, 2015, 143, 204902.	3.0	23
9	Confronting the complexity of CNT materials. Soft Matter, 2015, 11, 4888-4898.	2.7	23
10	Knot Energy, Complexity, and Mobility of Knotted Polymers. Scientific Reports, 2017, 7, 13374.	3.3	22
11	Electromagnetic Resonances of Individual Single-Walled Carbon Nanotubes With Realistic Shapes: A Characteristic Modes Approach. IEEE Transactions on Antennas and Propagation, 2016, 64, 2743-2757.	5.1	21
12	Fiber Network Formation in Semi-Flexible Polymer Solutions: An Exploratory Computational Study. Gels, 2018, 4, 27.	4.5	19
13	Dimensional reduction of duplex DNA under confinement to nanofluidic slits. Soft Matter, 2015, 11, 8273-8284.	2.7	16
14	Universal interrelation between measures of particle and polymer size. Journal of Chemical Physics, 2017, 147, 014903.	3.0	15
15	Electromagnetic Scattering From Individual Crumpled Graphene Flakes: A Characteristic Modes Approach. IEEE Transactions on Antennas and Propagation, 2017, 65, 6035-6047.	5.1	14
16	Giant Surface Conductivity Enhancement in a Carbon Nanotube Composite by Ultraviolet Light Exposure. ACS Applied Materials & Interfaces, 2016, 8, 23230-23235.	8.0	13
17	Quantifying Chemical Composition and Cross-link Effects on EPDM Elastomer Viscoelasticity with Molecular Dynamics. Macromolecules, 2021, 54, 6780-6789.	4.8	11
18	Modeling short-chain branched polyethylenes in dilute solution under variable solvent quality conditions: Basic configurational properties. Polymer, 2021, 217, 123429.	3.8	9

#	ARTICLE	IF	CITATIONS
19	Single-Chain Conformation of Poly( $\alpha$ -olefins) in Dilute Solutions at the Crossover between Linear and Bottlebrush Architectures. <i>Macromolecules</i> , 2021, 54, 6854-6866.	4.8	8
20	Electromagnetic Scattering From Multiple Single-Walled Carbon Nanotubes Having Tumbleweed Configurations. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 3192-3202.	5.1	7
21	Hydrodynamic radius fluctuations in model DNA-grafted nanoparticles. <i>AIP Conference Proceedings</i> , 2016, 1736, .	0.4	5
22	The Interfacial Layers Around Nanoparticle and Its Impact on Structural Relaxation and Glass Transition in Model Polymer Nanocomposites. <i>Springer Series in Materials Science</i> , 2021, , 101-131.	0.6	2
23	Electromagnetic scattering from multiple Carbon Nanotubes with experimentally determined shapes and distributions. , 2015, , .		1
24	Electromagnetic scattering properties of individual Carbon Nanotubes with realistic three dimensional shapes. , 2015, , .		0
25	Polarizability tensors of Carbon Nanotubes and Graphene Sheets with realistic shapes. , 2015, , .		0