

# Rahmi Ozisik

## List of Publications by Year in descending order

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70  
papers

4,206  
citations

186209

28  
h-index

118793

62  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of particle dispersion and heterogeneous interfacial layers in polymer nanocomposites. <i>Polymer</i> , 2021, 226, 123813.	1.8	3
2	Entanglement density and particle dynamics in rigid interfacial layers of polymer nanocomposites. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	4
3	Could network structures generated with simple rules imposed on a cubic lattice reproduce the structural descriptors of globular proteins?. <i>Journal of Complex Networks</i> , 2021, 10, .	1.1	0
4	Local Viscosity of Interfacial Layers in Polymer Nanocomposites Measured by Magnetic Heating. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5542-5549.	2.0	7
5	Viscoelastic and dynamic properties of polymer grafted nanocomposites with high glass transition temperature graft chains. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	9
6	Jet Milling as an Alternative Processing Technique for Preparing Polysulfone Hard Nanocomposites. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-8.	1.0	2
7	Effect of polysulfone brush functionalization on thermo-mechanical properties of melt extruded graphene/polysulfone nanocomposites. <i>Carbon</i> , 2019, 151, 84-93.	5.4	11
8	Stress Optical Behavior and Structure Development in Melt Spun PEEK/PEI Blends. <i>International Polymer Processing</i> , 2018, 33, 425-434.	0.3	0
9	Viscoelastic and Dynamic Properties of Well-Mixed and Phase-Separated Binary Polymer Blends: A Molecular Dynamics Simulation Study. <i>Macromolecules</i> , 2017, 50, 6293-6302.	2.2	7
10	Functionalization of reduced graphene oxide with polysulfone brushes enhance antibacterial properties and reduce human cytotoxicity. <i>Carbon</i> , 2017, 111, 258-268.	5.4	43
11	Interfacial surfactant competition and its impact on poly(ethylene oxide)/Au and poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.6	23
12	Viscoelastic damping in crystalline composites: A molecular dynamics study. <i>Composites Part B: Engineering</i> , 2016, 93, 273-279.	5.9	13
13	Nanoindentation and wear behavior of thermally stable biocompatible polysulfoneâ€“alumina nanocomposites. <i>RSC Advances</i> , 2016, 6, 100239-100247.	1.7	5
14	Sulfated levan from <i>Halomonas smyrnensis</i> as a bioactive, heparin-mimetic glycan for cardiac tissue engineering applications. <i>Carbohydrate Polymers</i> , 2016, 149, 289-296.	5.1	66
15	Effects of graphene concentration, relative density and cellular morphology on the thermal conductivity of polycarbonateâ€“graphene nanocomposite foams. <i>European Polymer Journal</i> , 2016, 75, 190-199.	2.6	36
16	Enhanced electromagnetic interference shielding effectiveness of polycarbonate/graphene nanocomposites foamed via 1-step supercritical carbon dioxide process. <i>Materials and Design</i> , 2016, 90, 906-914.	3.3	80
17	Targeted Conformational Transitions of Multimeric Proteins by Monte Carlo Simulations Combined with Collective Anisotropic Network Model Modes. <i>Biophysical Journal</i> , 2015, 108, 211a.	0.2	0
18	Monte Carlo simulation of the structure of mono- and bidisperse polyethylene nanocomposites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015, 33, 275-283.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Electromagnetic shielding effectiveness of polycarbonate/graphene nanocomposite foams processed in 2-steps with supercritical carbon dioxide. <i>Materials Letters</i> , 2015, 160, 41-44.	1.3	33
20	Highly Efficient Fabrication of Polymer Nanofiber Assembly by Centrifugal Jet Spinning: Process and Characterization. <i>Macromolecules</i> , 2015, 48, 2593-2602.	2.2	73
21	Interfacial characterization of epoxy/silica nanocomposites measured by fluorescence. <i>European Polymer Journal</i> , 2015, 62, 31-42.	2.6	20
22	Rapid and efficient fabrication of multilevel structured silica micro-/nanofibers by centrifugal jet spinning. <i>Journal of Colloid and Interface Science</i> , 2014, 425, 136-142.	5.0	44
23	Engineering the coefficient of thermal expansion and thermal conductivity of polymers filled with high aspect ratio silica nanofibers. <i>Composites Part B: Engineering</i> , 2014, 58, 228-234.	5.9	73
24	Simple Rules Imposed on a Primitive Cubic Lattice Robustly Generate Structures that Mimic Features of Real Proteins. <i>Biophysical Journal</i> , 2014, 106, 655a.	0.2	0
25	Template free and large-scale fabrication of silica nanotubes with centrifugal jet spinning. <i>Chemical Engineering Journal</i> , 2014, 254, 39-45.	6.6	20
26	Fabrication of platinum nanoparticles in aqueous solution and solid phase using amphiphilic PB-b-PEO copolymer nanoreactors. <i>Materials Research Bulletin</i> , 2013, 48, 3183-3188.	2.7	7
27	Polymer nanocomposite foams. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3837.	5.2	188
28	Controlling Foam Morphology of Poly(methyl methacrylate) via Surface Chemistry and Concentration of Silica Nanoparticles and Supercritical Carbon Dioxide Process Parameters. <i>Journal of Chemistry</i> , 2013, 2013, 1-13.	0.9	21
29	A Computational Study on Carbon Dioxide Storage in Single Walled Carbon Nanotubes. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 1658-1666.	0.4	4
30	Exact Expressions for Many-Body Atomic Displacement Correlations in the Anisotropic Network Model. <i>Biophysical Journal</i> , 2012, 102, 445a-446a.	0.2	0
31	Effect of Surface Modification on Magnetization of Iron Oxide Nanoparticle Colloids. <i>Langmuir</i> , 2012, 28, 13051-13059.	1.6	91
32	Where do Proteins Fit in the Structural Classification of Condensed Matter?. <i>Biophysical Journal</i> , 2012, 102, 250a.	0.2	0
33	Controlling bubble density in MWNT/polymer nanocomposite foams by MWNT surface modification. <i>Composites Science and Technology</i> , 2012, 72, 190-196.	3.8	40
34	Supercritical carbon dioxide assisted dispersion and distribution of silica nanoparticles in polymers. <i>Journal of Supercritical Fluids</i> , 2012, 67, 108-113.	1.6	18
35	Enhanced Thermal Conductivity in a Nanostructured Phase Change Composite due to Low Concentration Graphene Additives. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8753-8758.	1.5	377
36	An experimental and theoretical investigation of the compressive properties of multi-walled carbon nanotube/poly(methyl methacrylate) nanocomposite foams. <i>Polymer</i> , 2011, 52, 2899-2909.	1.8	106

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37	Numerical investigation of the annulus fibrosus. , 2011, , .		0
38	Simultaneous estimation of the phase content and lamellar thickness in isotactic polypropylene by the simulated annealing of wide-angle X-ray scattering data. Journal of Applied Polymer Science, 2010, 117, 2386-2394.	1.3	1
39	The effect of confinement in nanoporous polymers on the glass transition temperature. Polymer, 2010, 51, 540-546.	1.8	9
40	The influence of carbon nanotube aspect ratio on the foam morphology of MWNT/PMMA nanocomposite foams. Polymer, 2010, 51, 2368-2375.	1.8	156
41	Molecular probe technique for determining local thermal transitions: The glass transition at Silica/PMMA nanocomposite interfaces. Polymer, 2010, 51, 4891-4898.	1.8	27
42	Influence of nanoparticle surface chemistry and size on supercritical carbon dioxide processed nanocomposite foam morphology. Journal of Supercritical Fluids, 2010, 51, 420-427.	1.6	117
43	Carbon dioxide sequestration by carbon nanotubes: Application of graph theoretical approach. Computational Materials Science, 2010, 48, 402-408.	1.4	3
44	Using vibrational mode analysis for predicting the coefficient of thermal expansion of amorphous polymers. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2114-2121.	2.4	3
45	Novel route to nanoparticle dispersion using supercritical carbon dioxide. Journal of Supercritical Fluids, 2008, 43, 515-523.	1.6	8
46	Phase separation and surface morphology of spin-coated films of polyetherimide/polycaprolactone immiscible polymer blends. Thin Solid Films, 2007, 515, 2965-2973.	0.8	30
47	Influence of stereoerrors on the formation of helices during early stage crystallization of isotactic polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 3349-3360.	2.4	6
48	Adsorption and Desorption Dynamics of Linear Polymer Chains to Spherical Nanoparticles: A Monte Carlo Investigation. Macromolecules, 2006, 39, 3089-3092.	2.2	48
49	Pore structure and glass transition temperature of nanoporous poly(ether imide). Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 3546-3552.	2.4	7
50	Monte Carlo simulations of the crystallization of isotactic polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 3453-3460.	2.4	14
51	Phase separation and mechanical responses of polyurethane nanocomposites. Polymer, 2006, 47, 7786-7794.	1.8	63
52	Effects of processing parameters on the preparation of nylon 6 nanocomposites. Polymer, 2006, 47, 2849-2855.	1.8	49
53	Glass Transition Temperature in Confined Polymers. Materials Research Society Symposia Proceedings, 2006, 977, 1.	0.1	0
54	Deformation of glassy polycarbonate and polystyrene: the influence of chemical structure and local environment. Polymer, 2005, 46, 4397-4404.	1.8	21

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55	Disruption of self-assembly and altered mechanical behavior in polyurethane/zinc oxide nanocomposites. <i>Polymer</i> , 2005, 46, 10873-10882.	1.8	114
56	Simulation of plastic deformation in glassy polymers: Atomistic and mesoscale approaches. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 994-1004.	2.4	13
57	NMR relaxation and pulsed-gradient diffusion study of polyethylene nanocomposites. <i>Journal of Chemical Physics</i> , 2005, 123, 134901.	1.2	16
58	Structure and Dynamics of Polyethylene Nanocomposites. <i>Macromolecules</i> , 2005, 38, 9351-9358.	2.2	90
59	Nanoporous Polymer Films from Immiscible Polymer Blends: Pore Size and Composition Dependence. <i>Materials Research Society Symposia Proceedings</i> , 2004, 856, BB10.13.1.	0.1	0
60	Structure of poly (p-phenylenebenzobisoxazole) (PBZO) and poly (p-phenylenebenzobisthiazole) (PBZT) for proton exchange membranes (PEMs) in fuel cells. <i>Polymer</i> , 2004, 45, 49-59.	1.8	10
61	Effect of chemical functionalization on thermal transport of carbon nanotube composites. <i>Applied Physics Letters</i> , 2004, 85, 2229-2231.	1.5	272
62	Role of thermal boundary resistance on the heat flow in carbon-nanotube composites. <i>Journal of Applied Physics</i> , 2004, 95, 8136-8144.	1.1	474
63	Interfacial heat flow in carbon nanotube suspensions. <i>Nature Materials</i> , 2003, 2, 731-734.	13.3	1,027
64	Self-diffusion of linear and cyclic alkanes, measured with pulsed-gradient spin-echo nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2003, 118, 3867-3873.	1.2	49
65	Comparison of the diffusion coefficients of linear and cyclic alkanes. <i>Polymer</i> , 2002, 43, 629-635.	1.8	33
66	Monte Carlo Simulation of the Structures and Dynamics of Amorphous Polyethylene Nanoparticles. <i>Macromolecular Theory and Simulations</i> , 2001, 10, 553-563.	0.6	22
67	Translational diffusion in Monte Carlo simulations of polymer melts: center of mass displacement vs. integrated velocity autocorrelation function. <i>Computational and Theoretical Polymer Science</i> , 2000, 10, 411-418.	1.1	8
68	A Monte Carlo Simulation on the Effects of Chain End Modification on Freely Standing Thin Films of Amorphous Polyethylene Melts. <i>Macromolecules</i> , 2000, 33, 7663-7671.	2.2	35
69	Diffusion in binary liquid n-alkane and alkane-polyethylene blends. <i>Journal of Chemical Physics</i> , 1999, 111, 750-757.	1.2	50
70	Monte Carlo Modeling of Polyethylene Nanocomposites Using a High Coordination Lattice. , 0, , 449-485.		0