

# Evangelos Manias

## List of Publications by Year in descending order

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77  
papers

8,608  
citations

81743

39  
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76769

74  
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78  
all docs

78  
docs citations

78  
times ranked

7303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial Effects on the Dielectric Properties of Elastomer Composites and Nanocomposites. <i>Advances in Dielectrics</i> , 2022, , 225-249.	1.2	6
2	Polarization Mechanism Underlying Strongly Enhanced Dielectric Permittivity in Polymer Composites with Conductive Fillers. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7596-7604.	1.5	30
3	Interfacial effects on the dielectric properties of elastomer/carbon-black/ceramic composites. <i>MRS Advances</i> , 2021, 6, 247-251.	0.5	23
4	Improving Electrical Breakdown Strength of Polymer Nanocomposites by Tailoring Hybrid-Filler Structure for High-Voltage Dielectric Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 4401-4407.	2.4	47
5	High Breakdown Strength Polymer Nanocomposites Based on the Synergy of Nanofiller Orientation and Crystal Orientation for Insulation and Dielectric Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 3520-3530.	2.4	54
6	Structured Polyethylene Nanocomposites: Effects of Crystal Orientation and Nanofiller Alignment on High Field Dielectric Properties. <i>MRS Advances</i> , 2017, 2, 363-368.	0.5	17
7	Increased Dielectric Breakdown Strength of Polyolefin Nanocomposites via Nanofiller Alignment. <i>MRS Advances</i> , 2017, 2, 357-362.	0.5	27
8	Effect of crystal orientation and nanofiller alignment on dielectric breakdown of polyethylene/montmorillonite nanocomposites. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	40
9	Thermodynamics of Polymer Blends. , 2014, , 171-289.		29
10	Dynamics of Amphiphilic Surfactants Confined in Montmorillonite Slits with Different Cation Exchange Capacities. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13667-13678.	1.2	6
11	Polymer/inorganic nanocomposites with tailored hierarchical structure as advanced dielectric materials. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1410, 43.	0.1	1
12	Poly(ethylene terephthalate) nanocomposites using nanoclays modified with thermally stable surfactants. , 2011, , 100-120.		2
13	Atomistic simulation of lipid and DiI dynamics in membrane bilayers under tension. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1368-1378.	1.3	62
14	Studies of Bitumen~Silica and Oil~Silica Interactions in Ionic Liquids. <i>Energy &amp; Fuels</i> , 2011, 25, 293-299.	2.5	73
15	EVA-layered double hydroxide (nano)composites: Mechanism of fire retardancy. <i>Polymer Degradation and Stability</i> , 2011, 96, 301-313.	2.7	33
16	Dielectric Properties of Polymer Electrolyte Membranes Measured by Two-Port Transmission Line Technique. <i>ECS Transactions</i> , 2010, 28, 95-105.	0.3	9
17	Dielectric Relaxation in Dimethyl Sulfoxide/Water Mixtures. <i>ECS Transactions</i> , 2010, 28, 11-21.	0.3	12
18	State of Water in Perfluorosulfonic Ionomer (Nafion) Proton Exchange Membranes. <i>ECS Transactions</i> , 2010, 28, 81-89.	0.3	5

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19	Hollow microspheres and aqueous phase behavior of pH-responsive poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 T ( Letters, 2009, 63, 1144-1147.	1.3	13
20	Polyethylene Nanocomposite Heat-ε Sealants with a Versatile Peelable Character. Macromolecular Rapid Communications, 2009, 30, 17-23.	2.0	15
21	Polymer nanocomposites using zinc aluminum and magnesium aluminum oleate layered double hydroxides: Effects of the polymeric compatibilizer and of composition on the thermal and fire properties of PP/LDH nanocomposites. Polymer Degradation and Stability, 2009, 94, 2042-2054.	2.7	43
22	Material properties of nanoclay PVC composites. Polymer, 2009, 50, 1857-1867.	1.8	140
23	Polymer nanocomposites using zinc aluminum and magnesium aluminum oleate layered double hydroxides: Effects of LDH divalent metals on dispersion, thermal, mechanical and fire performance in various polymers. Polymer, 2009, 50, 3564-3574.	1.8	130
24	Dielectric Relaxation in Dimethyl Sulfoxide/Water Mixtures Studied by Microwave Dielectric Relaxation Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 12207-12214.	1.1	121
25	Tailored Nanocomposites of Polypropylene with Layered Silicates. Macromolecules, 2009, 42, 3795-3803.	2.2	73
26	Two-Port Transmission Line Technique for Dielectric Property Characterization of Polymer Electrolyte Membranes. Journal of Physical Chemistry B, 2009, 113, 13551-13559.	1.2	32
27	Tailored Polyethylene Nanocomposite Sealants: Broad-Range Peelable Heat-Seals Through Designed Filler/Polymer Interfaces. Journal of Adhesion Science and Technology, 2009, 23, 709-737.	1.4	18
28	Effect of MgAl-layered double hydroxide exchanged with linear alkyl carboxylates on fire-retardancy of PMMA and PS. Journal of Materials Chemistry, 2008, 18, 4827.	6.7	204
29	Symposium 3: Computational Methods in Chemical Engineering: Physical Chemistry. AIP Conference Proceedings, 2007, , .	0.3	0
30	The influence of carbon nanotubes, organically modified montmorillonites and layered double hydroxides on the thermal degradation and fire retardancy of polyethylene, ethylene-ε vinyl acetate copolymer and polystyrene. Polymer, 2007, 48, 6532-6545.	1.8	139
31	Stiffer by design. Nature Materials, 2007, 6, 9-11.	13.3	179
32	Phase behavior of temperature-responsive polymers with tunable LCST: An equation-of-state approach. Fluid Phase Equilibria, 2007, 261, 69-78.	1.4	21
33	The thermal degradation of poly(methyl methacrylate) nanocomposites with montmorillonite, layered double hydroxides and carbon nanotubes. Polymers for Advanced Technologies, 2006, 17, 272-280.	1.6	192
34	SiOC glass modified by montmorillonite clay. Ceramics International, 2006, 32, 679-686.	2.3	15
35	State of Water in Nafion 117 Proton Exchange Membranes Studied by Dielectric Relaxation Spectroscopy. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	1
36	Rapid formation of soft hydrophilic silicone elastomer surfaces. Polymer, 2005, 46, 9329-9341.	1.8	60

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37	Nested self-similar wrinkling patterns in skins. <i>Nature Materials</i> , 2005, 4, 293-297.	13.3	710
38	Effect of cation exchange capacity on the structure and dynamics of poly(ethylene oxide) in Li+ montmorillonite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3460-3477.	2.4	13
39	Segmental dynamics of polymers in nanoscopic confinements, as probed by simulations of polymer/layered-silicate nanocomposites. <i>European Physical Journal E</i> , 2003, 12, 159-165.	0.7	34
40	Low permeability biomedical polyurethane nanocomposites. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 64A, 114-119.	3.0	80
41	Melt-processable syndiotactic polystyrene/montmorillonite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 3173-3187.	2.4	81
42	Simulation insights on the structure of nanoscopically confined poly(ethylene oxide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 3285-3298.	2.4	61
43	Exfoliated PP/Clay Nanocomposites Using Ammonium-Terminated PP as the Organic Modification for Montmorillonite. <i>Macromolecules</i> , 2003, 36, 8919-8922.	2.2	137
44	Solid-State Microstructure of Poly(l-lactide) and l-Lactide/meso-Lactide Random Copolymers by Atomic Force Microscopy (AFM). <i>Biomacromolecules</i> , 2003, 4, 1203-1213.	2.6	34
45	Micropatterning of Conducting Polymer Thin Films on Reactive Self-assembled Monolayers. <i>Chemistry of Materials</i> , 2003, 15, 2699-2701.	3.2	22
46	Crystallization Behavior of Poly(ethylene oxide) in the Presence of Na+Montmorillonite Fillers. <i>Chemistry of Materials</i> , 2003, 15, 844-849.	3.2	212
47	Dynamics of poly(ethylene oxide) in nanoscale confinements: A computer simulations perspective. <i>Journal of Chemical Physics</i> , 2003, 118, 3421-3429.	1.2	69
48	Effect of nm-Thin Inorganic Layered Fillers on the Crystallization of Polymer Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 2003, 791, 1.	0.1	2
49	Computer Simulation of PEO/Layered-Silicate Nanocomposites: 2. Lithium Dynamics in PEO/Li+Montmorillonite Intercalates. <i>Chemistry of Materials</i> , 2002, 14, 2171-2175.	3.2	79
50	Functionalized Syndiotactic Polystyrene Polymers Prepared by the Combination of Metallocene Catalyst and Borane Comonomer. <i>Macromolecules</i> , 2002, 35, 3439-3447.	2.2	73
51	Synthesis of new amphiphilic diblock copolymers containing poly(ethylene oxide) and poly(?-olefin). <i>Journal of Polymer Science Part A</i> , 2002, 40, 3416-3425.	2.5	43
52	Water-soluble polymers with tunable temperature sensitivity: Solution behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2339-2342.	2.4	40
53	The origins of fast segmental dynamics in 2 nm thin confined polymer films. <i>European Physical Journal E</i> , 2002, 8, 193-199.	0.7	37
54	Polypropylene/Montmorillonite Nanocomposites. Review of the Synthetic Routes and Materials Properties. <i>Chemistry of Materials</i> , 2001, 13, 3516-3523.	3.2	862

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55	AFM of Poly(vinyl alcohol) Crystals Next to an Inorganic Surface. <i>Macromolecules</i> , 2001, 34, 8475-8482.	2.2	118
56	New Biomedical Poly(urethane urea)-Layered Silicate Nanocomposites. <i>Macromolecules</i> , 2001, 34, 337-339.	2.2	327
57	Relaxation of polymers in 2 nm slit-pores: confinement induced segmental dynamics and suppression of the glass transition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 187-188, 509-521.	2.3	55
58	A SANS Study of Organoclay Dispersions. <i>International Journal of Thermophysics</i> , 2001, 22, 1435-1448.	1.0	21
59	Polymeric micromechanical components with tunable stiffness. <i>Applied Physics Letters</i> , 2001, 79, 1700-1702.	1.5	32
60	Nanosopic-Confinement Effects on Local Dynamics. <i>Physical Review Letters</i> , 2000, 84, 915-918.	2.9	286
61	Structure and Properties of Poly(vinyl alcohol)/Na+Montmorillonite Nanocomposites. <i>Chemistry of Materials</i> , 2000, 12, 2943-2949.	3.2	741
62	Computer Simulation Studies of PEO/Layer Silicate Nanocomposites. <i>Chemistry of Materials</i> , 2000, 12, 2161-2167.	3.2	211
63	Intercalation Kinetics of Long Polymers in 2 nm Confinements. <i>Macromolecules</i> , 2000, 33, 7955-7966.	2.2	162
64	Flammability Properties of Polymer-Layered-Silicate Nanocomposites. Polypropylene and Polystyrene Nanocomposites. <i>Chemistry of Materials</i> , 2000, 12, 1866-1873.	3.2	1,451
65	Dynamical heterogeneity in nanoconfined poly(styrene) chains. <i>Journal of Chemical Physics</i> , 2000, 112, 2945-2951.	1.2	125
66	Molecular dynamics simulations of organically modified layered silicates. <i>Journal of Chemical Physics</i> , 1998, 108, 7410-7415.	1.2	214
67	The Nature of Nanometer-Thick Lubricating Films. <i>Materials Research Society Symposia Proceedings</i> , 1998, 522, 165.	0.1	1
68	Nonlinear dynamics of melted polymer layers. <i>Macromolecular Symposia</i> , 1997, 121, 175-186.	0.4	17
69	Inhomogeneities in Sheared Ultrathin Lubricating Films. <i>Langmuir</i> , 1996, 12, 4587-4593.	1.6	86
70	Direct Observation of Fracture Mechanisms in Polymer-Layered Silicate Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 1996, 457, 495.	0.1	7
71	On the nature of shear thinning in nanoscopically confined films. <i>Europhysics Letters</i> , 1996, 33, 371-376.	0.7	68
72	Adsorption-desorption kinetics in nanoscopically confined oligomer films under shear. <i>Molecular Physics</i> , 1995, 85, 1017-1032.	0.8	34

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73	Rheology of Confined Polymer Melts under Shear Flow: Strong Adsorption Limit. <i>Macromolecules</i> , 1995, 28, 1511-1515.	2.2	39
74	Nonlinear Rheology of Polymer Melts under Shear Flow. <i>Macromolecules</i> , 1995, 28, 3898-3900.	2.2	39
75	Atomic Force Microscopy and Real Atomic Resolution. Simple Computer Simulations. <i>Europhysics Letters</i> , 1994, 26, 103-107.	0.7	27
76	Effect of shear on the desorption of oligomers in nanoscopically confined films. <i>Journal of Chemical Physics</i> , 1994, 101, 1721-1724.	1.2	34
77	Stick and Slip Behaviour of Confined Oligomer Melts under Shear. A Molecular-Dynamics Study. <i>Europhysics Letters</i> , 1993, 24, 99-104.	0.7	51