

Juan Colmenero

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#	Paper	IF	Citations
429	Relationship between the time-domain Kohlrausch-Williams-Watts and frequency-domain Havriliak-Negami relaxation functions. <i>Physical Review B</i> , 1991 , 44, 7306-7312	3.3	549
428	Merging of the alpha and beta relaxations in polybutadiene: A neutron spin echo and dielectric study. <i>Physical Review E</i> , 1996 , 54, 3853-3869	2.4	245
427	Interconnection between frequency-domain Havriliak-Negami and time-domain Kohlrausch-Williams-Watts relaxation functions. <i>Physical Review B</i> , 1993 , 47, 125-130	3.3	191
426	Neutron scattering study of the picosecond dynamics of polybutadiene and polyisoprene. <i>Physical Review E</i> , 1995 , 52, 781-795	2.4	184
425	Observation of the Component Dynamics in a Miscible Polymer Blend by Dielectric and Mechanical Spectroscopies. <i>Macromolecules</i> , 1994 , 27, 4486-4492	5.5	183
424	Crossover from Debye to non-Debye dynamical behavior of the alpha relaxation observed by quasielastic neutron scattering in a glass-forming polymer. <i>Physical Review Letters</i> , 1993 , 71, 2603-2606	7.4	180
423	Dynamics of Water Intercalated in Graphite Oxide. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2604-2612	3.8	176
422	T _g depression and invariant segmental dynamics in polystyrene thin films. <i>Soft Matter</i> , 2012 , 8, 5119	3.6	164
421	Crystallization of Al ₂₃ Te ₇₇ glasses. <i>Journal of Non-Crystalline Solids</i> , 1979 , 30, 263-271	3.9	164
420	The merging of the dielectric β and β' relaxations in poly-(methyl methacrylate). <i>Journal of Chemical Physics</i> , 1998 , 109, 7546-7555	3.9	163
419	Physical aging in polymers and polymer nanocomposites: recent results and open questions. <i>Soft Matter</i> , 2013 , 9, 8619	3.6	159
418	Correlation between non-Debye behavior and Q behavior of the alpha relaxation in glass-forming polymeric systems. <i>Physical Review Letters</i> , 1992 , 69, 478-481	7.4	158
417	Segmental dynamics in miscible polymer blends: recent results and open questions. <i>Soft Matter</i> , 2007 , 3, 1474-1485	3.6	151
416	Dynamics of Glass-Forming Polymers: Homogeneous versus Heterogeneous Scenario. <i>Physical Review Letters</i> , 1998 , 81, 590-593	7.4	148
415	Effect of nanoconfinement on polymer dynamics: surface layers and interphases. <i>Physical Review Letters</i> , 2013 , 110, 108303	7.4	133
414	Direct evidence of two equilibration mechanisms in glassy polymers. <i>Physical Review Letters</i> , 2013 , 111, 095701	7.4	129
413	Effect of Blending on the PVME Dynamics. A Dielectric, NMR, and QENS Investigation. <i>Macromolecules</i> , 1999 , 32, 4065-4078	5.5	128

412	How Far Are Single-Chain Polymer Nanoparticles in Solution from the Globular State?. <i>ACS Macro Letters</i> , 2014 , 3, 767-772	6.6	127
411	Neutron Spin Echo in Polymer Systems 2005 ,		119
410	Universal features of water dynamics in solutions of hydrophilic polymers, biopolymers, and small glass-forming materials. <i>Physical Review E</i> , 2008 , 77, 031803	2.4	118
409	.alpha.-Relaxation in the Glass Transition Range of Amorphous Polymers. 1. Temperature Behavior across the Glass transition. <i>Macromolecules</i> , 1995 , 28, 1516-1527	5.5	117
408	Endowing Single-Chain Polymer Nanoparticles with Enzyme-Mimetic Activity. <i>ACS Macro Letters</i> , 2013 , 2, 775-779	6.6	116
407	Metallo-Folded Single-Chain Nanoparticles with Catalytic Selectivity.. <i>ACS Macro Letters</i> , 2014 , 3, 439-448	6.6	115
406	Direct observation of confined single chain dynamics by neutron scattering. <i>Physical Review Letters</i> , 2010 , 104, 197801	7.4	115
405	Self-motion and the alpha relaxation in a simulated glass-forming polymer: crossover from Gaussian to non-Gaussian dynamic behavior. <i>Physical Review E</i> , 2002 , 65, 041804	2.4	111
404	Effect of nanostructure on the thermal glass transition and physical aging in polymer materials. <i>Progress in Polymer Science</i> , 2016 , 54-55, 128-147	29.6	102
403	Molecular Motions in Polyisobutylene: A Neutron Spin-Echo and Dielectric Investigation. <i>Macromolecules</i> , 1998 , 31, 1133-1143	5.5	102
402	Segmental Dynamics in Poly(vinylethylene)/Polyisoprene Miscible Blends Revisited. A Neutron Scattering and Broad-Band Dielectric Spectroscopy Investigation. <i>Macromolecules</i> , 1999 , 32, 7572-7581	5.5	99
401	Effects of losartan on hepatic expression of nonphagocytic NADPH oxidase and fibrogenic genes in patients with chronic hepatitis C. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, G726-34	5.1	95
400	Dynamics of the alpha relaxation of a glass-forming polymeric system: Dielectric, mechanical, nuclear-magnetic-resonance, and neutron-scattering studies. <i>Physical Review B</i> , 1991 , 44, 7321-7329	3.3	93
399	Continuous cooling approximation for the formation of a glass. <i>Journal of Non-Crystalline Solids</i> , 1981 , 46, 277-287	3.9	93
398	"Michael" Nanocarriers Mimicking Transient-Binding Disordered Proteins.. <i>ACS Macro Letters</i> , 2013 , 2, 491-495	6.6	92
397	Permanent adsorption of organic solvents in graphite oxide and its effect on the thermal exfoliation. <i>Carbon</i> , 2010 , 48, 1079-1087	10.4	90
396	Sorption and desorption behavior of water and organic solvents from graphite oxide. <i>Carbon</i> , 2010 , 48, 3277-3286	10.4	88
395	Dynamics of poly(ethylene oxide) in a blend with poly(methyl methacrylate): a quasielastic neutron scattering and molecular dynamics simulations study. <i>Physical Review E</i> , 2005 , 72, 031808	2.4	88

- 394 Anomalous dynamic arrest in a mixture of large and small particles. *Physical Review E*, **2006**, 74, 021409 2.4 86
- 393 Dielectric Investigation of the Low-Temperature Water Dynamics in the Poly(vinyl methyl ether)/H₂O System. *Macromolecules*, **2005**, 38, 7056-7063 5.5 86
- 392 Physical aging of polystyrene/gold nanocomposites and its relation to the calorimetric T_g depression. *Soft Matter*, **2011**, 7, 3607 3.6 84
- 391 Relaxation scenarios in a mixture of large and small spheres: dependence on the size disparity. *Journal of Chemical Physics*, **2006**, 125, 164507 3.9 84
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- 389 Study of the dynamic structure factor in the beta relaxation regime of polybutadiene. *Physical Review Letters*, **1996**, 76, 1872-1875 7.4 82
- 388 Dynamical and Structural Aspects of the Cold Crystallization of Poly(dimethylsiloxane) (PDMS). *Macromolecules*, **2008**, 41, 1364-1376 5.5 80
- 387 Out of equilibrium dynamics of poly(vinyl methyl ether) segments in miscible poly(styrene)-poly(vinyl methyl ether) blends. *Physical Review E*, **2003**, 68, 031805 2.4 80
- 386 Advantages of Orthogonal Folding of Single Polymer Chains to Soft Nanoparticles. *Macromolecules*, **2013**, 46, 9748-9759 5.5 78
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- 384 Experimental evidence by neutron scattering of a crossover from Gaussian to non-Gaussian behavior in the alpha relaxation of polyisoprene. *Physical Review E*, **2003**, 67, 051802 2.4 77
- 383 Intermediate length scale dynamics of polyisobutylene. *Physical Review E*, **2002**, 65, 051803 2.4 77
- 382 Enthalpy Recovery in Nanometer to Micrometer Thick Polystyrene Films. *Macromolecules*, **2012**, 45, 5296-5306 5.5 76
- 381 Structural observation and kinetic pathway in the formation of polymeric micelles. *Physical Review Letters*, **2009**, 102, 188301 7.4 74
- 380 Dielectric relaxation in PMMA revisited. *Journal of Non-Crystalline Solids*, **1998**, 235-237, 580-583 3.9 74
- 379 Methyl Group Dynamics in Poly(vinyl methyl ether). A Rotation Rate Distribution Model. *Macromolecules*, **1994**, 27, 3282-3288 5.5 73
- 378 Merging of the Dielectric and Relaxations in Glass-Forming Polymers. *Macromolecules*, **2001**, 34, 503-513 3.5 72
- 377 Dielectric Study of Hydration Water in Silica Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 24340-24349 3.8 70

376	From Rouse dynamics to local relaxation: A neutron spin echo study on polyisobutylene melts. <i>Journal of Chemical Physics</i> , 1999 , 111, 6107-6120	3.9	70
375	Efficient Route to Compact Single-Chain Nanoparticles: Photoactivated Synthesis via Thiol-ene Coupling Reaction. <i>Macromolecules</i> , 2014 , 47, 8270-8280	5.5	69
374	Design and preparation of single-chain nanocarriers mimicking disordered proteins for combined delivery of dermal bioactive cargos. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1681-6	4.8	68
373	Segmental Dynamics in Miscible Polymer Blends: Modeling the Combined Effects of Chain Connectivity and Concentration Fluctuations. <i>Macromolecules</i> , 2003 , 36, 7280-7288	5.5	68
372	Secondary and Segmental Relaxation in Polybutadienes of Varying Microstructure: Dielectric Relaxation Results. <i>Macromolecules</i> , 1996 , 29, 129-134	5.5	68
371	Quantum Rotational Tunneling of Methyl Groups in Polymers. <i>Physical Review Letters</i> , 1998 , 80, 2350-2353	3.4	66
370	Accelerated physical aging in PMMA/silica nanocomposites. <i>Soft Matter</i> , 2010 , 6, 3306	3.6	65
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365	Quantitative Study of Chain Connectivity Inducing Effective Glass Transition Temperatures in Miscible Polymer Blends. <i>Macromolecules</i> , 2002 , 35, 5587-5590	5.5	63
364	Relaxation in the Glass-Transition Range of Amorphous Polymers. 2. Influence of Physical Aging on the Dielectric Relaxation. <i>Macromolecules</i> , 1997 , 30, 3881-3887	5.5	62
363	A versatile "click" chemistry precursor of functional polystyrene nanoparticles. <i>Advanced Materials</i> , 2010 , 22, 3038-41	24	60
362	Determination of the nanoscale dielectric constant by means of a double pass method using electrostatic force microscopy. <i>Journal of Applied Physics</i> , 2009 , 106, 024315	2.5	59
361	Neutron scattering study of the dynamics of a polymer melt under nanoscopic confinement. <i>Journal of Chemical Physics</i> , 2009 , 131, 174901	3.9	59
360	Anomalous relaxation of self-assembled alkyl nanodomains in high-order poly(n-alkyl methacrylates). <i>Soft Matter</i> , 2008 , 4, 1792	3.6	59
359	Route to calculate the length scale for the glass transition in polymers. <i>Physical Review E</i> , 2007 , 76, 011514	1.4	59

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357	Enhanced physical aging of polymer nanocomposites: The key role of the area to volume ratio. <i>Polymer</i> , 2012 , 53, 1362-1372	3.9	57
356	Enthalpy Recovery of PMMA/Silica Nanocomposites. <i>Macromolecules</i> , 2010 , 43, 7594-7603	5.5	57
355	Origin of dynamic heterogeneities in miscible polymer blends: A quasielastic neutron scattering study. <i>Physical Review Letters</i> , 2000 , 85, 772-5	7.4	57
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352	Concentrated Solutions of Single-Chain Nanoparticles: A Simple Model for Intrinsically Disordered Proteins under Crowding Conditions. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 838-44	6.4	54
351	Broadband dielectric investigation on poly(vinyl pyrrolidone) and its water mixtures. <i>Journal of Chemical Physics</i> , 2008 , 128, 044901	3.9	54
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347	Detailed correspondences between dielectric and mechanical relaxations in poly(vinylethylene). <i>Macromolecules</i> , 1994 , 27, 407-410	5.5	52
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345	Methyl Group Dynamics in Poly(vinyl acetate): A Neutron Scattering Study. <i>Macromolecules</i> , 1998 , 31, 3985-3993	5.5	51
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342	The dynamics of the β and β' relaxations in glass-forming polymers studied by quasielastic neutron scattering and dielectric spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1994 , 172-174, 126-137	3.9	50
341	Nanodielectric mapping of a model polystyrene-poly(vinyl acetate) blend by electrostatic force microscopy. <i>Physical Review E</i> , 2010 , 81, 010801	2.4	49

340	Dielectric investigation of the temperature dependence of the nonexponentiality of the dynamics of polymer melts. <i>Physical Review E</i> , 1999 , 59, 6888-95	2.4	49
339	Dielectric relaxation of polymers: segmental dynamics under structural constraints. <i>Soft Matter</i> , 2016 , 12, 7709-25	3.6	49
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337	Polymer chain dynamics in a random environment: heterogeneous mobilities. <i>Physical Review Letters</i> , 2007 , 98, 168301	7.4	48
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334	Dynamics in Poly(n-alkyl methacrylates): A Neutron Scattering, Calorimetric, and Dielectric Study. <i>Macromolecules</i> , 2010 , 43, 3107-3119	5.5	47
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332	Dielectric spectroscopy in the GHz region on fully hydrated zwitterionic amino acids. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11352-62	3.6	46
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326	Heterogeneity of the Segmental Dynamics of Poly(dimethylsiloxane) in a Diblock Lamellar Mesophase: Dielectric Relaxation Investigations. <i>Macromolecules</i> , 2004 , 37, 7808-7817	5.5	44
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317	Chain Motion in Nonentangled Dynamically Asymmetric Polymer Blends: Comparison between Atomistic Simulations of PEO/PMMA and a Generic BeadSpring Model. <i>Macromolecules</i> , 2010 , 43, 3036-3051	5.5	41
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314	Dynamic arrest in polymer melts: competition between packing and intramolecular barriers. <i>Physical Review Letters</i> , 2008 , 101, 255701	7.4	40
313	On the interpretation of the TSDC results in the study of the relaxation of amorphous polymers. <i>Polymer</i> , 1996 , 37, 2915-2923	3.9	40
312	Single-chain nanoparticles: opportunities provided by internal and external confinement. <i>Materials Horizons</i> , 2020 , 7, 2292-2313	14.4	39
311	Two-Dimensional Subnanometer Confinement of Ethylene Glycol and Poly(ethylene oxide) by Neutron Spectroscopy: Molecular Size Effects. <i>Macromolecules</i> , 2012 , 45, 3137-3144	5.5	39
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309	Carbon-carbon torsional barriers driving the fast dynamics in glass-forming polymers. <i>Physical Review B</i> , 1998 , 57, 13508-13513	3.3	39
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297	Single Chain Dynamic Structure Factor of Linear Polymers in an All-Polymer Nano-Composite. <i>Macromolecules</i> , 2016 , 49, 2354-2364	5.5	34
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- 281 Theoretical considerations concerning avrami transformations under non-isothermal conditions. *Thermochimica Acta*, **1980**, 35, 381-384 2.9 31
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- 275 Accounting for the thickness dependence of the Tg in supported PS films via the volume holes diffusion model. *Thermochimica Acta*, **2014**, 575, 233-237 2.9 29
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