Jean Duhamel

List of Publications by Year
in descending order

106 papers	2,893 citations	212478 28 h-index	223390 49 g-index
106 all docs	106 docs citations	106 times ranked	2184 citing authors

#	Article	IF	Citations
1	Pyrene Excimer Formation (PEF) and Its Application to the Study of Polypeptide Dynamics. Langmuir, 2022, 38, 3623-3629.	1.6	6
2	Characterization of the Interactions between an Unassociated Cationic Pyrene-Labeled Gemini Surfactant and Anionic Sodium Dodecyl Sulfate. Langmuir, 2022, 38, 7484-7495.	1.6	2
3	Blob-Based Predictions of Protein Folding Times from the Amino Acid-Dependent Conformation of Polypeptides in Solution. Macromolecules, 2021, 54, 919-929.	2.2	8
4	Determination of the Aggregation Number of Pyrene-Labeled Gemini Surfactant Micelles by Pyrene Fluorescence Quenching Measurements. Langmuir, 2021, 37, 6069-6079.	1.6	8
5	Unfolding of Helical Poly(L-Glutamic Acid) in N,N-Dimethylformamide Probed by Pyrene Excimer Fluorescence (PEF). Polymers, 2021, 13, 1690.	2.0	1
6	Effects of Glycine on the Local Conformation and Internal Backbone Dynamics of Polypeptides. Macromolecules, 2021, 54, 8904-8912.	2.2	4
7	Characterization of the Local Volume Probed by the Side-Chain Ends of Poly(oligo(ethylene glycol)) Tj ETQq1 1 0.784314 rgBT /Overlock Macromolecules, 2021, 54, 9341-9350.	2.2	5
8	Synthesis and Characterization of a Pyrene-Labeled Gemini Surfactant Sensitive to the Polarity of Its Environment. Langmuir, 2021, 37, 13824-13837.	1.6	3
9	Simplification in the Acquisition and Analysis of Fluorescence Decays Acquired with Polarized Emission for Time-Resolved Fluorescence Anisotropy Measurements. Analytical Chemistry, 2020, 92, 668-673.	3.2	3
10	Interior of Amylopectin and Nano-Sized Amylopectin Fragments Probed by Viscometry, Dynamic Light Scattering, and Pyrene Excimer Fluorescence. Polymers, 2020, 12, 2649.	2.0	3
11	Blob-Based Approach to Estimate the Folding Time of Proteins Supported by Pyrene Excimer Fluorescence Experiments. Macromolecules, 2020, 53, 9823-9835.	2.2	8
12	A Pyrene Excimer Fluorescence (PEF) Study of the Interior of Amylopectin in Dilute Solution. Macromolecules, 2020, 53, 6850-6860.	2.2	5
13	Direct Measure of the Local Concentration of Pyrenyl Groups in Pyrene-Labeled Dendrons Derived from the Rate of Fluorescence Collisional Quenching. Polymers, 2020, 12, 2919.	2.0	9
14	Effect of Structure on Polypeptide Blobs: A Model Study Using Poly(<scp>l</scp>-lysine). Langmuir, 2020, 36, 7980-7990.	1.6	11
15	Effect of Like Charges on the Conformation and Internal Dynamics of Polypeptides Probed by Pyrene Excimer Fluorescence. Macromolecules, 2020, 53, 5147-5157.	2.2	11
16	The Effect of Amino Acid Size on the Internal Dynamics and Conformational Freedom of Polypeptides. Macromolecules, 2020, 53, 9811-9822.	2.2	6
17	Assemblies of Hydrophobically Modified Starch Nanoparticles Probed by Surface Tension and Pyrene Fluorescence. ACS Symposium Series, 2020, , 61-75.	0.5	5
18	Application of Time-Resolved Fluorescence Anisotropy To Probe Quinoline-Based Foldamers Labeled with Oligo(phenylene vinylene). Macromolecules, 2019, 52, 5829-5837.	2.2	5

#	Article	IF	Citations
19	Detection of Nitroaromatics by Pyrene-Labeled Starch Nanoparticles. Langmuir, 2019, 35, 13145-13156.	1.6	10
20	Probing the Interactions between Mimics of Pour Point Depressants (PPDs) and Viscosity Index Improvers (VIIs) in Engine Oil Using Fluorescently Labeled PPDs. Macromolecules, 2019, 52, 2651-2658.	2.2	5
21	Surfactant Structure-Dependent Interactions with Modified Starch Nanoparticles Probed by Fluorescence Spectroscopy. Langmuir, 2019, 35, 3432-3444.	1.6	18
22	Design, characterization, optical and photophysical properties of novel thiophene monomers and polymers containing pyrene moieties linked via rigid and flexible spacers. Synthetic Metals, 2019, 248, 102-109.	2.1	4
23	Temperature-Controlled Interactions between Poly(N-isopropylacrylamide) Mesoglobules Probed by Fluorescence. Macromolecules, 2018, 51, 1946-1956.	2.2	2
24	Pyrene Excimer Fluorescence as a Direct and Easy Experimental Means To Characterize the Length Scale and Internal Dynamics of Polypeptide Foldons. Macromolecules, 2018, 51, 3450-3457.	2.2	27
25	Quantitative Characterization of the Molecular Dimensions of Flexible Dendritic Macromolecules in Solution by Pyrene Excimer Fluorescence. Macromolecules, 2018, 51, 1586-1590.	2.2	12
26	Temperature response of aqueous solutions of pyrene endâ€labeled poly(Nâ€isopropylacrylamide)s probed by steadyâ€state and timeâ€resolved fluorescence. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 308-318.	2.4	9
27	Arborescent Poly(<scp>l</scp>-glutamic acid)s as Standards To Study the Dense Interior of Polypeptide Mesoglobules by Pyrene Excimer Fluorescence. Macromolecules, 2018, 51, 7914-7923.	2.2	12
28	Applications of Pyrene Fluorescence to the Characterization of Hydrophobically Modified Starch Nanoparticles. Langmuir, 2018, 34, 8611-8621.	1.6	28
29	Hydrophobic and Elastic Forces Experienced by a Series of Pyrene End-Labeled Poly(ethylene oxide)s Interacting with Sodium Dodecyl Sulfate Micelles. Macromolecules, 2018, 51, 5933-5943.	2.2	14
30	Long Range Polymer Chain Dynamics of Highly Flexible Polysiloxane in Solution Probed by Pyrene Excimer Fluorescence. Polymers, 2018, 10, 345.	2.0	10
31	Using Pyrene Excimer Fluorescence To Probe Polymer Diffusion in Latex Films. Macromolecules, 2017, 50, 1635-1644.	2.2	13
32	Long-Range, Polymer Chain Dynamics of a â€œStiffâ€•Polymer. Fluorescence from Poly(isobutylene-alt-maleic anhydride) with N-(1-Pyrenylmethyl)succinimide Groups. Macromolecules, 2017, 50, 3396-3403.	2.2	7
33	New approaches to characterize polymeric oil additives in solution based on pyrene excimer fluorescence. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 7-18.	2.4	9
34	Using Pyrene Excimer Fluorescence To Probe the Interactions between Viscosity Index Improvers and Waxes Present in Automotive Oil. Macromolecules, 2017, 50, 2467-2476.	2.2	8
35	Characterization of the Distribution of Pyrene Molecules in Confined Geometries with the Model Free Analysis. Journal of Physical Chemistry B, 2017, 121, 11325-11332.	1.2	10
36	Characterization of the Long-Range Internal Dynamics of Pyrene-Labeled Macromolecules by Pyrene Excimer Fluorescence. Macromolecules, 2016, 49, 9597-9604.	2.2	15

#	Article	IF	Citations
37	Conformation of Pyrene-Labeled Amylose in DMSO Characterized with the Fluorescence Blob Model. Macromolecules, 2016, 49, 7965-7974.	2.2	17
38	Long Range Polymer Chain Dynamics Studied by Fluorescence Quenching. Macromolecules, 2016, 49, 6149-6162.	2.2	28
39	Membrane Binding and Oligomerization of the Lipopeptide A54145 Studied by Pyrene Fluorescence. Biophysical Journal, 2016, 111, 1267-1277.	0.2	20
40	Pyrenyl Derivative with a Four-Atom Linker That Can Probe the Local Polarity of Pyrene-Labeled Macromolecules. Journal of Physical Chemistry B, 2016, 120, 834-842.	1.2	21
41	Probing Side Chain Dynamics of Branched Macromolecules by Pyrene Excimer Fluorescence. Macromolecules, 2016, 49, 353-361.	2.2	33
42	Pyrene-Labeled Water-Soluble Macromolecules as Fluorescent Mimics of Associative Thickeners. Springer Series on Fluorescence, 2016, , 217-253.	0.8	1
43	Quantifying the Level of Intermacromolecular Interactions in Ethyleneâ€“Propylene Copolymers by Using Pyrene Excimer Formation. Macromolecules, 2015, 48, 4620-4630.	2.2	8
44	Extraction of Oil from Oil Sands Using Thermoresponsive Polymeric Surfactants. ACS Applied Materials & Interfaces, 2015, 7, 5879-5889.	4.0	20
45	DiPyMe in SDS Micelles: Artifacts and Their Implications in the Interpretation of Micellar Properties. Langmuir, 2015, 31, 11971-11981.	1.6	12
46	Chemical Modification of Polyisobutylene Succinimide Dispersants and Characterization of Their Associative Properties. Journal of Physical Chemistry B, 2015, 119, 12202-12211.	1.2	18
47	Interactions between a Series of Pyrene End-Labeled Poly(ethylene oxide)s and Sodium Dodecyl Sulfate in Aqueous Solution Probed by Fluorescence. Langmuir, 2014, 30, 13164-13175.	1.6	15
48	Interactions between Hydrophobically Modified Alkali-Swellable Emulsion Polymers and Sodium Dodecyl Sulfate Probed by Fluorescence and Rheology. Journal of Physical Chemistry B, 2014, 118, 351-361.	1.2	12
49	Fluorescence Resonance Energy Transfer in Partially and Fully Labeled Pyrene Dendronized Porphyrins Studied with Model Free Analysis. Journal of Physical Chemistry C, 2014, 118, 8280-8294.	1.5	47
50	Global Analysis of Fluorescence Decays to Probe the Internal Dynamics of Fluorescently Labeled Macromolecules. Langmuir, 2014, 30, 2307-2324.	1.6	62
51	Effect of Side-Chain Length on the Polymer Chain Dynamics of Poly(alkyl methacrylate)s in Solution. Macromolecules, 2013, 46, 9738-9747.	2.2	35
52	Effect of Sequence on the Ionization Behavior of a Series of Amphiphilic Polypeptides. Langmuir, 2013, 29, 4451-4459.	1.6	14
53	Internal Dynamics of Dendritic Molecules Probed by Pyrene Excimer Formation. Polymers, 2012, 4, 211-239.	2.0	80
54	New Insights in the Study of Pyrene Excimer Fluorescence to Characterize Macromolecules and their Supramolecular Assemblies in Solution. Langmuir, 2012, 28, 6527-6538.	1.6	184

#	Article	IF	Citations
55	Studying Pyrene-Labeled Macromolecules with the Model-Free Analysis. Journal of Physical Chemistry B, 2012, 116, 14689-14699.	1.2	17
56	Molar Absorbance Coefficient of Pyrene Aggregates in Water Generated by a Poly(ethylene oxide) Capped at a Single End with Pyrene. Journal of Physical Chemistry B, 2012, 116, 1226-1233.	1.2	22
57	Lateral Distribution of Charged Species along a Polyelectrolyte Probed with a Fluorescence Blob Model. Journal of the American Chemical Society, 2012, 134, 16791-16797.	6.6	4
58	Synthesis and Characterization of Novel Pyrene-Dendronized Porphyrins Exhibiting Efficient Fluorescence Resonance Energy Transfer: Optical and Photophysical Properties. Langmuir, 2012, 28, 11195-11205.	1.6	49
59	Probing End-to-End Cyclization beyond Willemski and Fixman. Journal of Physical Chemistry B, 2011, 115, 3289-3302.	1.2	44
60	Fluorescence studies of a series of monodisperse telechelic Î±,Ï‰-dipyrenyl poly(N-isopropylacrylamide)s in ethanol and in water. Canadian Journal of Chemistry, 2011, 89, 163-172.	0.6	16
61	Long-Range Polymer Chain Dynamics of Pyrene-Labeled Poly(N-isopropylacrylamide)s Studied by Fluorescence. Macromolecules, 2011, 44, 5363-5372.	2.2	35
62	Characterization of the Behavior of a Pyrene Substituted Gemini Surfactant in Water by Fluorescence. Langmuir, 2011, 27, 3361-3371.	1.6	33
63	Quantifying the Presence of Unwanted Fluorescent Species in the Study of Pyrene-Labeled Macromolecules. Journal of Physical Chemistry B, 2011, 115, 9921-9929.	1.2	24
64	Effect of Polypeptide Sequence on Polypeptide Self-Assembly. Langmuir, 2011, 27, 6639-6650.	1.6	28
65	A Study of the Dynamics of the Branch Ends of a Series of Pyrene-Labeled Dendrimers Based on Pyrene Excimer Formation. Journal of Physical Chemistry B, 2010, 114, 10254-10265.	1.2	42
66	Electron Transfer between Physically Bound Electron Donors and Acceptors: A Fluorescence Blob Model Approach. Journal of Physical Chemistry B, 2010, 114, 13950-13960.	1.2	3
67	How switching the substituent of a pyrene derivative from a methyl to a butyl affects the fluorescence response of polystyrene randomly labeled with pyrene. Canadian Journal of Chemistry, 2010, 88, 217-227.	0.6	23
68	Comparison of the long range polymer chain dynamics of polystyrene and cis-polyisoprene using polymers randomly labeled with pyrene. Polymer, 2009, 50, 5456-5466.	1.8	15
69	Effect of Viscosity on Long-Range Polymer Chain Dynamics in Solution Studied with a Fluorescence Blob Model. Macromolecules, 2009, 42, 1244-1251.	2.2	11
70	Effect of Time on the Rate of Long Range Polymer Segmental Intramolecular Encounters. Journal of Physical Chemistry B, 2009, 113, 2284-2292.	1.2	13
71	Study of maleated ethyleneâ€“propylene copolymers by fluorescence: Evidence for succinimide induced polar associations in an apolar solvent. European Polymer Journal, 2008, 44, 3005-3014.	2.6	6
72	A Case for Using Randomly Labeled Polymers to Study Long-Range Polymer Chain Dynamics by Fluorescence. Journal of the American Chemical Society, 2008, 130, 9420-9428.	6.6	39

#	Article	IF	Citations
73	Effect of Side-chain Length on the Side-chain Dynamics of Î±-Helical Poly(<scp>l</scp>-glutamic acid) as Probed by a Fluorescence Blob Model. Journal of Physical Chemistry B, 2008, 112, 9209-9218.	1.2	28
74	Correlating Pyrene Excimer Formation with Polymer Chain Dynamics in Solution. Possibilities and Limitations. Macromolecules, 2007, 40, 6647-6657.	2.2	32
75	Study of the Microcrystallization of Ethyleneâ^'Propylene Random Copolymers in Solution by Fluorescence. Macromolecules, 2007, 40, 661-669.	2.2	14
76	Interaction of a Self-Assembling Peptide with Oligonucleotides: Complexation and Aggregation. Biophysical Journal, 2007, 93, 2477-2490.	0.2	16
77	Polymer Chain Dynamics in Solution Probed with a Fluorescence Blob Model. Accounts of Chemical Research, 2006, 39, 953-960.	7.6	91
78	Associations between a Pyrene-Labeled Hydrophobically Modified Alkali Swellable Emulsion Copolymer and Sodium Dodecyl Sulfate Probed by Fluorescence, Surface Tension, and Viscometry. Macromolecules, 2006, 39, 1144-1155.	2.2	34
79	Study of the Semidilute Solutions of Poly(N,N-dimethylacrylamide) by Fluorescence and Its Implications to the Kinetics of Coil-to-Globule Transitions. Journal of Physical Chemistry B, 2006, 110, 2628-2637.	1.2	19
80	The Importance of Considering Nonfluorescent Pyrene Aggregates for the Study of Pyrene-Labeled Associative Thickeners by Fluorescence. Macromolecules, 2005, 38, 7184-7186.	2.2	23
81	Effect of Solvent Quality toward the Association of Succinimide Pendants of a Modified Ethyleneâ^'Propylene Copolymer in Mixtures of Toluene and Hexane. Macromolecules, 2005, 38, 4438-4446.	2.2	9
82	Comparison of the Association Level of a Pyrene-Labeled Associative Polymer Obtained from an Analysis Based on Two Different Models. Journal of Physical Chemistry B, 2005, 109, 1770-1780.	1.2	48
83	Characterization of the Aggregates Made by Short Poly(ethylene oxide) Chains Labeled at One End with Pyrene. Macromolecules, 2005, 38, 2865-2875.	2.2	29
84	Characterization by Fluorescence of the Distribution of Maleic Anhydride Grafted onto Ethyleneâ^'Propylene Copolymers. Macromolecules, 2004, 37, 1877-1890.	2.2	30
85	Self-Assembling Peptide as a Potential Carrier of Hydrophobic Compounds. Journal of the American Chemical Society, 2004, 126, 7522-7532.	6.6	100
86	Coilâ^'Globule Transition of Pyrene-Labeled Polystyrene in Cyclohexane:â€‰ Determination of Polymer Chain Radii by Fluorescence. Journal of Physical Chemistry B, 2004, 108, 12009-12015.	1.2	44
87	Global Analysis of the Fluorescence Decays of a Pyrene-Labeled Polymer Using a Blob Model. Macromolecules, 2004, 37, 9287-9289.	2.2	33
88	Blob Model Analysis of the pH-Induced Fluorescence Quenching of Two Anthracene-Labeled Poly(2-vinylpyridine)s. Macromolecules, 2004, 37, 1987-1989.	2.2	9
89	Side-Chain Dynamics of an Î±-Helical Polypeptide Monitored by Fluorescence. Journal of the American Chemical Society, 2003, 125, 12810-12822.	6.6	75
90	Effect of Solvent Quality on the Level of Association and Encounter Kinetics of Hydrophobic Pendants Covalently Attached onto a Water-Soluble Polymer. Macromolecules, 2002, 35, 8560-8570.	2.2	45

#	Article	IF	Citations
91	Rigid Interior of Styreneâ^'Maleic Anhydride Copolymer Aggregates Probed by Fluorescence Spectroscopy. Langmuir, 2002, 18, 3829-3835.	1.6	29
92	Scaling Relations Related to the Kinetics of Excimer Formation between Pyrene Groups Attached onto Poly(N,N-dimethylacrylamide)s. Macromolecules, 2002, 35, 8571-8577.	2.2	40
93	Maleic Anhydride Modified Oligo(isobutylene):Â Effect of Hydrogen Bonding on Its Associative Strength in Hexane Characterized by Fluorescence Spectroscopy. Macromolecules, 2001, 34, 1454-1469.	2.2	16
94	Characterization of the Association Level of Pyrene-Labeled HASEs by Fluorescence. Macromolecules, 2001, 34, 7876-7884.	2.2	46
95	Maleated Ethylene-Propylene Random Copolymers:Â Determination of the Microstructure and Association Level by Fluorescence Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 4827-4839.	1.2	17
96	A Blob Model To Study Chain Folding by Fluorescence. Macromolecules, 1999, 32, 7100-7108.	2.2	84
97	Study of a Polymeric Network by Dynamic Fluorescence Quenching Using a Blob Model. Macromolecules, 1999, 32, 2845-2854.	2.2	23
98	Fluorescence Properties of Poly(ethylene terephthalate-co-2,6-naphthalene dicarboxylate) with Naphthalene Contents Ranging from 0.01 to 100 mol. Macromolecules, 1999, 32, 2956-2961.	2.2	16
99	Monitoring the Hydrophobic Interactions of Internally Pyrene-Labeled Poly(ethylene oxide)s in Water by Fluorescence Spectroscopy. Macromolecules, 1998, 31, 9193-9200.	2.2	28
100	Fluorescence Emission of Ethidium Bromide Intercalated in Defined DNA Duplexes:Â Evaluation of Hydrodynamics Componentsâ€. Biochemistry, 1996, 35, 16687-16697.	1.2	61
101	Characterization of the ground state pyrene complex in ethylene-propylene copolymer solutions. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1173-1181.	2.4	9
102	Fluorescence Studies of Associating Polymers in Water: Determination of the Chain end Aggregation Number and a Model for the Association Process. Macromolecules, 1995, 28, 956-966.	2.2	273
103	A blob model to study polymer chain dynamics in solution. The Journal of Physical Chemistry, 1993, 97, 13708-13712.	2.9	27
104	A fluorescent probe study of micelle-like cluster formation in aqueous solutions of hydrophobically modified poly(ethylene oxide). Macromolecules, 1993, 26, 1829-1836.	2.2	165
105	Diffusion reaction in restricted spaces of spherical symmetry: Surface quenching of luminescence. Journal of Chemical Physics, 1992, 97, 1554-1561.	1.2	13
106	Probing the Interactions between Pour Point Depressants (PPDs), Viscosity Index Improvers (VIIs), and Wax in Octane Using Fluorescently Labeled PPDs. Canadian Journal of Chemistry, 0, , .	0.6	0