

Juan F Vega

List of Publications by Year in descending order

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72
papers

1,921
citations

279798

23
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276875

41
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73
all docs

73
docs citations

73
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheology of Poly(glycidyl methacrylate) Macromolecular Nano Assemblies. <i>Polymers</i> , 2022, 14, 455.	4.5	3
2	Melting Temperature Depression of Polymer Single Crystals: Application to the Eco-Design of Tie-Layers in Polyolefinic-Based Multilayered Films. <i>Polymers</i> , 2022, 14, 1622.	4.5	2
3	Biofilm mechanics in an extremely acidic environment: microbiological significance. <i>Soft Matter</i> , 2021, 17, 3672-3680.	2.7	5
4	Revisiting Polymer-Particle Interaction in PEO Solutions. <i>Langmuir</i> , 2021, 37, 3808-3816.	3.5	6
5	A computer simulation of the effect of temperature on melt chain dimensions of random short chain branched polyethylene. <i>Polymer</i> , 2021, 225, 123772.	3.8	1
6	Poly(glycidyl methacrylate) macromolecular assemblies as biocompatible nanocarrier for the antimicrobial lysozyme. <i>International Journal of Pharmaceutics</i> , 2021, 603, 120695.	5.2	5
7	Organocatalyzed Polymerization of PET- <i>mb</i> -poly(oxyhexane) Copolymers and Their Self-Assembly into Double Crystalline Superstructures. <i>Macromolecules</i> , 2019, 52, 6834-6848.	4.8	15
8	Hydrodynamic and Electrophoretic Properties of Trastuzumab/HER2 Extracellular Domain Complexes as Revealed by Experimental Techniques and Computational Simulations. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1076.	4.1	5
9	Heterobimetallic aluminate derivatives with bulky phenoxide ligands: a catalyst for selective vinyl polymerization. <i>Dalton Transactions</i> , 2019, 48, 6435-6444.	3.3	11
10	PET- <i>ran</i> -PLA Partially Degradable Random Copolymers Prepared by Organocatalysis: Effect of Poly(<i>scpl</i> -lactic acid) Incorporation on Crystallization and Morphology. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8647-8659.	6.7	28
11	Predicting experimental results for polyethylene by computer simulation. <i>European Polymer Journal</i> , 2018, 99, 298-331.	5.4	47
12	Competition between supernucleation and plasticization in the crystallization and rheological behavior of PCL/CNT-based nanocomposites and nanohybrids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1310-1325.	2.1	15
13	Molecular and hydrodynamic properties of human epidermal growth factor receptor HER2 extracellular domain and its homodimer: Experiments and multi-scale simulations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2406-2416.	2.4	7
14	Mapping the Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Banded Spherulites by Nanoindentation. <i>Polymers</i> , 2016, 8, 358.	4.5	6
15	Coarse-grained simulations on the crystallization, melting and annealing processes of short chain branched polyolefins. <i>European Polymer Journal</i> , 2016, 85, 478-488.	5.4	14
16	New habits in branched polyethylene single crystals. <i>European Polymer Journal</i> , 2016, 80, 169-174.	5.4	5
17	A new insight into the conformation and melt dynamics of hydrogenated polybutadiene as revealed by computer simulations. <i>Soft Matter</i> , 2016, 12, 3929-3936.	2.7	8
18	Evidences of Changes in Surface Electrostatic Charge Distribution during Stabilization of HPV16 Virus-Like Particles. <i>PLoS ONE</i> , 2016, 11, e0149009.	2.5	5

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19	The influence of short-chain branching on the morphology and structure of polyethylene single crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1751-1762.	2.1	11
20	Molecular Dynamics Simulations for the Description of Experimental Molecular Conformation, Melt Dynamics, and Phase Transitions in Polyethylene. <i>Macromolecules</i> , 2015, 48, 5016-5027.	4.8	76
21	Study of the effect of the molecular architecture of the components on the melt rheological properties of polyethylene blends. <i>Journal of Polymer Research</i> , 2015, 22, 1.	2.4	5
22	Computer simulations of the early stages of crystal nucleation of linear and short chain branched polyethylene on carbon nanotubes. <i>European Polymer Journal</i> , 2014, 56, 194-204.	5.4	15
23	Strong influence of branching on the early stage of nucleation and crystal formation of fast cooled ultralong n-alkanes as revealed by computer simulation. <i>European Polymer Journal</i> , 2014, 50, 190-199.	5.4	22
24	Effect of short chain branching in molecular dimensions and Newtonian viscosity of ethylene/1-hexene copolymers: matching conformational and rheological experimental properties and atomistic simulations. <i>Rheologica Acta</i> , 2014, 53, 1-13.	2.4	17
25	Influence of Chain Branching and Molecular Weight on Melt Rheology and Crystallization of Polyethylene/Carbon Nanotube Nanocomposites. <i>Macromolecules</i> , 2014, 47, 5668-5681.	4.8	49
26	Microstructure and properties of branched polyethylene: Application of a three-phase structural model. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1871-1878.	2.6	12
27	Effect of high molar mass species on linear viscoelastic properties of polyethylene melts. <i>European Polymer Journal</i> , 2013, 49, 2748-2758.	5.4	8
28	Structural Insights on the Plant Salt-Overly-Sensitive 1 (SOS1) Na ⁺ /H ⁺ Antiporter. <i>Journal of Molecular Biology</i> , 2012, 424, 283-294.	4.2	49
29	Assessment of entanglement features and dynamics from atomistic simulations and experiments in linear and short chain branched polyolefins. <i>Soft Matter</i> , 2012, 8, 6256.	2.7	17
30	Effect of molecular weight distribution on Newtonian viscosity of linear polyethylene. <i>Rheologica Acta</i> , 2012, 51, 81-87.	2.4	23
31	Eliminating sharkskin distortion in polyethylene extrusion via a molecular route. <i>Journal of Rheology</i> , 2011, 55, 855-873.	2.6	11
32	A three-phase microstructural model to explain the mechanical relaxations of branched polyethylene: a DSC, WAXD and DMTA combined study. <i>Colloid and Polymer Science</i> , 2011, 289, 257-268.	2.1	24
33	Molecular architecture and linear viscoelasticity of homogeneous ethylene/styrene copolymers. <i>Rheologica Acta</i> , 2011, 50, 207-220.	2.4	7
34	Size and conformational features of ErbB2 and ErbB3 receptors: a TEM and DLS comparative study. <i>European Biophysics Journal</i> , 2011, 40, 835-842.	2.2	11
35	Role of the interface in the melt rheology properties of linear low-density polyethylene/low-density polyethylene blends: Effect of the molecular architecture of the dispersed phase. <i>Journal of Applied Polymer Science</i> , 2011, 119, 3217-3226.	2.6	8
36	The role of the interface in melt linear viscoelastic properties of LLDPE/LDPE blends: Effect of the molecular architecture of the matrix. <i>Journal of Applied Polymer Science</i> , 2009, 114, 420-429.	2.6	12

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37	Flow-induced crystallization regimes and rheology of isotactic polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 655-666.	3.6	47
38	Rheology, Processing, Tensile Properties, and Crystallization of Polyethylene/Carbon Nanotube Nanocomposites. <i>Macromolecules</i> , 2009, 42, 4719-4727.	4.8	153
39	Viscoelasticity and macromolecular topology in single-site catalyzed polyethylene. <i>Journal of Materials Science</i> , 2008, 43, 1745-1748.	3.7	5
40	Structure and Physical Properties of Polyethylenes obtained from Dual Catalysis Process. <i>Polymer Bulletin</i> , 2008, 60, 331-342.	3.3	9
41	Entanglement network and relaxation temperature dependence of single-site catalyzed ethylene/1-hexene copolymers. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1564-1569.	2.6	13
42	Highly active ethylene/hydroxyl comonomers copolymerization using metallocene catalysts. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1529-1534.	2.6	10
43	Three-dimensional modelling of flow curves in co-rotating twin-screw extruder elements. <i>Journal of Materials Processing Technology</i> , 2008, 197, 221-224.	6.3	24
44	Entanglement Relaxation Time in Polyethylene: Simulation versus Experimental Data. <i>Macromolecules</i> , 2008, 41, 2959-2962.	4.8	46
45	Molecular structure and properties of ethylene-co-styrene polymers obtained from [norbornene-7,7-bis(indenyl)]titanium dichloride catalyst system. <i>Journal of Applied Polymer Science</i> , 2007, 106, 1421-1430.	2.6	5
46	The unit cell expansion of branched polyethylene as detected by Raman spectroscopy: an experimental and simulation approach. <i>Journal of Materials Science</i> , 2007, 42, 1046-1049.	3.7	23
47	meso-[Norbornene-7,7-bis(indenyl)]titanium Dichloride: A Highly Active Catalyst for Ethylene-Styrene Copolymerization. <i>Macromolecules</i> , 2006, 39, 7479-7482.	4.8	21
48	Melt flow index on high molecular weight polyethylene: A comparative study of experiments and simulation. <i>Journal of Materials Processing Technology</i> , 2006, 174, 171-177.	6.3	13
49	Viscoelastic behaviour during the crystallisation of isotactic polypropylene. <i>Journal of Materials Science</i> , 2006, 41, 3899-3905.	3.7	5
50	Rheological behaviour of LDPE/EVAc blends. II. Linear viscoelasticity and extrusion properties. <i>Journal of Materials Science</i> , 2006, 41, 4814-4822.	3.7	6
51	Non-linear changes in the specific volume of the amorphous phase of poly(4-methyl-1-pentene); Kauzmann curves, inverse melting, fragility. <i>Polymer</i> , 2006, 47, 5555-5565.	3.8	9
52	Synthesis and properties of ethylene/styrene copolymers produced by metallocene catalysts. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3420-3429.	2.6	10
53	Processability of a metallocene-catalyzed linear PE improved by blending with a small amount of UHMWPE. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2963-2971.	2.1	29
54	Rheology and reptation of linear polymers. Ultrahigh molecular weight chain dynamics in the melt. <i>Journal of Rheology</i> , 2004, 48, 663-678.	2.6	129

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55	Elimination of Extrudate Distortions in Metallocene-Catalyzed Polyethylene. <i>Macromolecules</i> , 2004, 37, 681-683.	4.8	11
56	Title is missing!. <i>Journal of Materials Science</i> , 2003, 38, 4757-4764.	3.7	14
57	Rheological features and molecular architecture of polyethylenes. <i>Polymer Bulletin</i> , 2003, 50, 197-204.	3.3	11
58	Novel features of the rheological behaviour of metallocene catalysed atactic polypropylene. <i>Polymer</i> , 2003, 44, 1401-1407.	3.8	19
59	Phase morphology and melt viscoelastic properties in blends of ethylene/vinyl acetate copolymer and metallocene-catalysed linear polyethylene. <i>Polymer</i> , 2003, 44, 2911-2918.	3.8	44
60	On the processability of metallocene-catalysed polyethylene: effects of blending with ethylene-vinyl acetate copolymer. <i>Polymer</i> , 2003, 44, 1589-1594.	3.8	17
61	Model linear metallocene-catalyzed polyolefins: Melt rheological behavior and molecular dynamics. <i>Journal of Rheology</i> , 2003, 47, 1505-1521.	2.6	21
62	Effect of long chain branching on linear-viscoelastic melt properties of polyolefins. <i>E-Polymers</i> , 2002, 2, .	3.0	24
63	Title is missing!. <i>Journal of Materials Science</i> , 2002, 37, 3415-3421.	3.7	10
64	Rheological behaviour of LDPE/EVA-c blends. I. On the effect of vinyl acetate comonomer in EVA copolymers. <i>Polymer</i> , 2001, 42, 8093-8101.	3.8	25
65	New aspects on the rheological behaviour of metallocene catalysed polyethylenes. <i>Polymer</i> , 2001, 42, 9713-9721.	3.8	56
66	Rheology of metallocene catalysed polyethylenes: Energy consumption perspective. <i>Macromolecular Symposia</i> , 2000, 152, 15-27.	0.7	2
67	The effect of chain architecture on the rheology of metallocene polyethylenes. <i>Macromolecular Rapid Communications</i> , 2000, 21, 973-978.	3.9	26
68	Rheology of metallocene-catalyzed monomodal and bimodal polyethylenes. <i>Polymer Engineering and Science</i> , 1999, 39, 2292-2303.	3.1	33
69	Rheological criteria to characterize metallocene catalyzed polyethylenes. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 2257-2268.	2.2	80
70	Small-Amplitude Oscillatory Shear Flow Measurements as a Tool To Detect Very Low Amounts of Long Chain Branching in Polyethylenes. <i>Macromolecules</i> , 1998, 31, 3639-3647.	4.8	222
71	Rheological behaviour of metallocene catalysed high density polyethylene blends. <i>Polymer</i> , 1997, 38, 589-594.	3.8	45
72	Comparison of the Rheological Properties of Metallocene-Catalyzed and Conventional High-Density Polyethylenes. <i>Macromolecules</i> , 1996, 29, 960-965.	4.8	139