

Valeria Arrighi

List of Publications by Year in descending order

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92
papers

2,193
citations

236833

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265120

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all docs

97
docs citations

97
times ranked

2442
citing authors

#	ARTICLE	IF	CITATIONS
1	The glass transition and interfacial layer in styrene-butadiene rubber containing silica nanofiller. <i>Polymer</i> , 2003, 44, 6259-6266.	1.8	245
2	Quasielastic neutron scattering characterization of the relaxation processes in a room temperature ionic liquid. <i>Journal of Chemical Physics</i> , 2003, 119, 8549-8557.	1.2	122
3	Conformation of Cyclics and Linear Chain Polymers in Bulk by SANS. <i>Macromolecules</i> , 2004, 37, 8057-8065.	2.2	117
4	Electrochemical synthesis of ammonia based on a carbonate-oxide composite electrolyte. <i>Solid State Ionics</i> , 2011, 182, 133-138.	1.3	84
5	Local dynamics of poly(dimethyl siloxane) in the presence of reinforcing filler particles. <i>Polymer</i> , 1998, 39, 6369-6376.	1.8	83
6	Temperature Dependence of the Primary Relaxation in 1-Hexyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}imide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8469-8474.	1.2	76
7	Polymer-Supported Photosensitizers for Oxidative Organic Transformations in Flow and under Visible Light Irradiation. <i>ACS Catalysis</i> , 2017, 7, 4602-4612.	5.5	70
8	Observation of Local Order in Poly(di-n-alkyl itaconate)s. <i>Macromolecules</i> , 2000, 33, 4989-4991.	2.2	57
9	Restricted dynamics in polymer-filler systems. <i>Physica B: Condensed Matter</i> , 2001, 301, 110-114.	1.3	54
10	Rotation of Methyl Side Groups in Polymers: A Fourier Transform Approach to Quasielastic Neutron Scattering. 1. Homopolymers. <i>Macromolecules</i> , 1995, 28, 2745-2753.	2.2	52
11	BODIPY-based conjugated microporous polymers as reusable heterogeneous photosensitisers in a photochemical flow reactor. <i>Polymer Chemistry</i> , 2016, 7, 6662-6670.	1.9	51
12	Photoactive and metal-free polyamide-based polymers for water and wastewater treatment under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2016, 193, 226-233.	10.8	46
13	A small-angle neutron scattering study of a semiflexible main-chain liquid crystalline copolyester. <i>Macromolecules</i> , 1992, 25, 5297-5305.	2.2	43
14	Microwave and thermal curing of an epoxy resin for microelectronic applications. <i>Thermochimica Acta</i> , 2015, 616, 100-109.	1.2	40
15	Enthalpy relaxation and free volume changes in aged styrene copolymers containing a hydrogen bonding co-monomer. <i>Journal of Materials Science</i> , 2005, 40, 1869-1881.	1.7	36
16	Segmental Dynamics of Atactic Polypropylene As Revealed by Molecular Simulations and Quasielastic Neutron Scattering. <i>Macromolecules</i> , 2002, 35, 7110-7124.	2.2	35
17	On the difference in scattering behavior of cyclic and linear polymers in bulk. <i>Journal of Chemical Physics</i> , 2005, 122, 064904.	1.2	34
18	Dynamic heterogeneity in polymer electrolytes. Comparison between QENS data and MD simulations. <i>Physica B: Condensed Matter</i> , 2001, 301, 163-167.	1.3	33

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19	A Unified Picture of the Local Dynamics of Poly(dimethylsiloxane) across the Melting Point. <i>Macromolecules</i> , 2003, 36, 8738-8748.	2.2	33
20	Properties of partially denatured whey protein products: Formation and characterisation of structure. <i>Food Hydrocolloids</i> , 2016, 52, 95-105.	5.6	31
21	Deuterium NMR investigation of a new class of macrocyclic columnar liquid crystal. <i>Liquid Crystals</i> , 1991, 9, 277-284.	0.9	29
22	New polymeric materials for paper and textiles conservation. II. Grafting polymerization of ethyl acrylate/methyl methacrylate copolymers onto linen and cotton. <i>Journal of Applied Polymer Science</i> , 2007, 103, 90-99.	1.3	29
23	An organic silver complex conductive ink using both decomposition and self-reduction mechanisms in film formation. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2771-2783.	1.1	28
24	Dielectric Relaxations in Poly(di-n-alkyl itaconate)s. <i>Macromolecules</i> , 2004, 37, 6210-6218.	2.2	27
25	Effect of tacticity on the local dynamics of polypropylene melts. <i>Journal of Chemical Physics</i> , 2003, 119, 1271-1278.	1.2	26
26	Properties of partially denatured whey protein products 2: Solution flow properties. <i>Food Hydrocolloids</i> , 2016, 56, 218-226.	5.6	25
27	New polymeric materials for paper and textile conservation. I. Synthesis and characterization of acrylic copolymers. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1157-1164.	1.3	24
28	Effect of humic substances aggregation on the determination of fluoride in water using an ion selective electrode. <i>Chemosphere</i> , 2016, 159, 66-71.	4.2	24
29	Rotation of Methyl Side Groups in Polymers: A Fourier Transform Approach to Quasielastic Neutron Scattering. 2. Polymer Blends. <i>Macromolecules</i> , 1995, 28, 4622-4630.	2.2	22
30	Side group rotations in amorphous polymers. <i>Physica B: Condensed Matter</i> , 1996, 226, 1-9.	1.3	22
31	Fine Structure and Optical Properties of Cholesteric Films Prepared from Cellulose 4-Methylphenyl Urethane/N-Vinyl Pyrrolidinone Solutions. <i>Macromolecules</i> , 2002, 35, 7354-7360.	2.2	20
32	New Interpretation of Local Dynamics of Poly(Dimethyl Siloxane) Observed by Quasielastic Neutron Scattering. <i>Physical Review Letters</i> , 2003, 90, 058301.	2.9	19
33	Synthesis and cellular compatibility of multi-block biodegradable poly(μ -caprolactone)-based polyurethanes. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2590.	2.9	19
34	Microstructure and electrical property of copper films on a flexible substrate formed by an organic ink with 9.6Å% of Cu content. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8973-8982.	1.1	19
35	Local dynamics of atactic polypropylene across the glass transition. <i>Physica B: Condensed Matter</i> , 2001, 301, 35-43.	1.3	18
36	Silver Oxalate Ink with Low Sintering Temperature and Good Electrical Property. <i>Journal of Electronic Materials</i> , 2018, 47, 2824-2835.	1.0	18

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37	Properties of partially denatured whey protein products: Viscoelastic properties. <i>Food Hydrocolloids</i> , 2018, 80, 298-308.	5.6	18
38	Complex Dynamics in Polyisobutylene Melts. <i>Macromolecules</i> , 2002, 35, 7039-7043.	2.2	16
39	The stretched-exponential approximation to the dynamic structure factor in non-entangled polymer melts. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3734-3742.	1.3	16
40	Thermal characterisation of cellulose based materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 80, 369-373.	2.0	16
41	Efficient defluoridation of water by Monetite nanorods. <i>Adsorption</i> , 2018, 24, 135-145.	1.4	16
42	Effects of amine types on the properties of silver oxalate ink and the associated film morphology. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20895-20906.	1.1	16
43	Miscibility of polymer blends of poly(styrene-co-4-hydroxystyrene) with bisphenol-A polycarbonate. <i>Journal of Applied Polymer Science</i> , 1999, 74, 639-646.	1.3	14
44	Interpolymer complexation in hydrolysed poly(styrene-co-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (anhydride)/poly(styrene-	2.6	14
45	Effect of Chain Length and Topological Constraints on Segmental Relaxation in Cyclic PDMS. <i>Macromolecules</i> , 2018, 51, 7209-7223.	2.2	14
46	Phase behaviour and orientational order of a main-chain nematic polyester: a combined SANS and NMR study. <i>European Polymer Journal</i> , 1993, 29, 175-181.	2.6	13
47	Molecular dynamics of a main-chain liquid crystalline polyester below the crystalline to nematic phase transition. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 1605-1612.	1.7	13
48	Lyotropic liquid crystalline cellulose derivatives in blends and molecular composites. <i>Polymer</i> , 2001, 42, 9657-9663.	1.8	13
49	Local Effects of Ring Topology Observed in Polymer Conformation and Dynamics by Neutron Scatteringâ€”A Review. <i>Polymers</i> , 2020, 12, 1884.	2.0	13
50	Conformation of cyclic and linear polydimethylsiloxane in the melt: a small-angle neutron-scattering study. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s469-s471.	1.1	12
51	Local Dynamics of Polyethylene and Its Oligomers:Â A Molecular Dynamics Interpretation of the Incoherent Dynamic Structure Factor. <i>Macromolecules</i> , 2003, 36, 8864-8875.	2.2	12
52	Quasielastic neutron scattering measurements of fast process and methyl group dynamics in glassy poly(vinyl acetate). <i>Chemical Physics</i> , 2006, 328, 53-63.	0.9	12
53	One step synthesis of a hybrid Ag/rGO conductive ink using a complexationâ€”covalent bonding based approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 8218-8230.	1.1	12
54	One step preparation of copperâ€”silver self-catalyzed hybrid conductive ink with reduced sintering temperature for flexible electronics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11607-11618.	1.1	12

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55	QENS investigation of filled rubbers. Applied Physics A: Materials Science and Processing, 2002, 74, s490-s492.	1.1	11
56	Structural and dynamical characterization of melt PEO salt mixtures. Physica A: Statistical Mechanics and Its Applications, 2002, 304, 308-313.	1.2	11
57	Physical ageing in poly(4-hydroxy styrene)/poly(vinyl methyl ether) blends. Polymer International, 2006, 55, 749-756.	1.6	11
58	Miscibility Study of Stereoregular Poly(methyl methacrylate) Blends. Experimental Determination of Phase Diagrams and Predictions. Macromolecules, 2007, 40, 1667-1674.	2.2	11
59	Interpolymer complexation and thermal behaviour of poly(styrene-co-maleic acid)/poly(vinyl Tj ETQq1 1 0.784314 rggBT /Overlock 10 TF	1.2	11
60	Segmental dynamics in polymer electrolytes. Applied Physics A: Materials Science and Processing, 2002, 74, s493-s495.	1.1	10
61	Enthalpy Relaxation in Poly(4-hydroxystyrene)/Poly(methyl methacrylate) Blends. Macromolecular Chemistry and Physics, 2005, 206, 767-776.	1.1	10
62	Characterization of a main-chain semiflexible liquid crystalline polymer: degree of orientational order. Polymer, 1996, 37, 141-148.	1.8	9
63	Temperature dependence of local chain dynamics in atactic polypropylene: a neutron spin-echo study. Physica B: Condensed Matter, 2001, 301, 157-162.	1.3	9
64	An Improved Algorithm for the Fourier Integral of the KWW Function and Its Application to Neutron Scattering and Dielectric Data. Journal of Macromolecular Science - Physics, 2006, 45, 1065-1081.	0.4	9
65	Molar Mass Dependence of Polyethylene Chain Dynamics. A Quasi-Elastic Neutron Scattering Investigation. Macromolecules, 2013, 46, 216-225.	2.2	9
66	Physical Aging of Polymer Blends. , 2014, , 1357-1394.		9
67	Phase behaviour of SMMA and SAN blends using Flory's equation of state theory. Polymer, 2002, 43, 6661-6667.	1.8	8
68	Fast and Slow Dynamics of Isotactic Polypropylene Melts. Macromolecules, 2008, 41, 1560-1564.	2.2	8
69	Anharmonic Behavior in the Multisubunit Protein Apoferritin as Revealed by Quasi-Elastic Neutron Scattering. Journal of Physical Chemistry B, 2008, 112, 10873-10878.	1.2	8
70	Temperature dependence of the segmental dynamics in polyisobutylene melts. Journal of Non-Crystalline Solids, 2002, 307-310, 654-657.	1.5	7
71	Molecular dynamics of main-chain liquid crystalline polymers. Physica B: Condensed Matter, 1999, 266, 1-12.	1.3	6
72	Lyotropic liquid crystalline cellulose derivatives in blends and molecular composites. Macromolecular Symposia, 2000, 152, 107-116.	0.4	6

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73	Structural investigation of polymers by neutron scattering. <i>Plastics, Rubber and Composites</i> , 2004, 33, 313-330.	0.9	6
74	Nanophase-separated regions and side-chain relaxation in dialkyl itaconate copolymers. <i>Journal of Materials Chemistry</i> , 2004, 14, 3306.	6.7	6
75	QENS from polymer aggregates in supercritical CO ₂ . <i>Physica B: Condensed Matter</i> , 2000, 276-278, 386-387.	1.3	5
76	Order in amorphous di-n-alkyl itaconate polymers, copolymers, and blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 4000-4016.	2.4	5
77	Miscibility of blends of bisphenol A polycarbonate and poly(styrene-co-acrylonitrile-co-hydroxystyrene) terpolymer. <i>Journal of Applied Polymer Science</i> , 2007, 106, 944-949.	1.3	5
78	Using Short Videos To Supplement Lectures on Reaction Mechanisms, Organic Spectroscopy, and Polymer Chemistry. <i>ACS Symposium Series</i> , 2012, , 209-224.	0.5	5
79	Dynamic studies of poly(di-n-alkyl itaconate)s. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s466-s468.	1.1	4
80	Kinetics of phase separation of poly(styrene-co-methyl methacrylate) and poly(styrene-co-acrylonitrile) blends. <i>Polymer International</i> , 2004, 53, 1686-1692.	1.6	4
81	Order in poly(di-n-alkyl itaconate)s revealed by X-ray scattering experiments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 411-415.	0.6	3
82	The dynamic structure factor in non-entangled polymer melts " theoretical results for real chains and the stretched exponential approximation. <i>Chemical Physics</i> , 2003, 287, 391-398.	0.9	3
83	Quasielastic neutron scattering study of poly(dimethyl siloxane) at high pressure. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 137-141.	1.3	2
84	Short-range order in blends of polycarbonates with polystyrenes. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 849-851.	1.3	2
85	QENS from polymeric micelles in supercritical CO ₂ . <i>AIP Conference Proceedings</i> , 2000, , .	0.3	2
86	Ester methyl group dynamics in the poly(methyl methacrylate) stereocomplex: a neutron scattering study. <i>Macromolecular Symposia</i> , 2001, 166, 269-276.	0.4	2
87	Continuum lumping modelling for step growth polymerisation mechanism. <i>Chemical Engineering Research and Design</i> , 2012, 90, 2287-2292.	2.7	2
88	The Effect of the Isomeric Chlorine Substitutions on the Honeycomb-Patterned Films of Poly(x-chlorostyrene)s/Polystyrene Blends and Copolymers via Static Breath Figure Technique. <i>Materials</i> , 2019, 12, 167.	1.3	2
89	SANS studies of solutions and molecular composites prepared from cellulose tricarbonyl. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s472-s474.	1.1	1
90	Toward a Universal Approach To Enable Transfer of Equilibrium Constants in Hydrogen-Bonded Blends. <i>Macromolecules</i> , 2008, 41, 3769-3771.	2.2	1

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91	Neutron scattering as a tool for observing mixing and demixing in a polymer blend. Neutron News, 1994, 5, 15-20.	0.1	0
92	The dynamic structure factor in non-entangled polymer melts – theoretical results for real chains and the stretched exponential approximation. Chemical Physics, 2003, 292, 347-354.	0.9	0