Luigi Grassia

List of Publications by Year
in descending order

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31	700	516215	552369
papers	citations	16	26
		h-index	g-index

33	33	33	522
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deconvolution of the segmental and chain modes in amorphous polymers: Do the short-chain modes affect the bulk relaxation?. Polymer, 2021, 225, 123801.	1.8	1
2	Mobility of Pressure-Densified and Pressure-Expanded Polystyrene Glasses: Dilatometry and a Test of KAHR Model. Macromolecules, 2021, 54, 8352-8364.	2.2	4
3	Damage Detection in Composites By Artificial Neural Networks Trained By Using in Situ Distributed Strains. Applied Composite Materials, 2020, 27, 657-671.	1.3	32
4	Strain based method for monitoring the health state of composite structures. Composites Part B: Engineering, 2019, 176, 107253.	5.9	33
5	Comparative Study of Phenomenological Residual Strength Models for Composite Materials Subjected to Fatigue: Predictions at Constant Amplitude (CA) Loading. Materials, 2019, 12, 3398.	1.3	11
6	Nonisothermal Crystallization Kinetics of an Ethyleneâ€Vinylâ€Acetate: I Calorimetry Versus Rheology. Polymer Engineering and Science, 2019, 59, 2557-2563.	1.5	5
7	Principal Features of Fatigue and Residual Strength of Composite Materials Subjected to Constant Amplitude (CA) Loading. Materials, 2019, 12, 2586.	1.3	12
8	Fatigue of Composite Materials Subjected to Variable Loadings. Journal of Materials Engineering and Performance, 2019, 28, 6538-6543.	1.2	10
9	A method to predict the fatigue life and the residual strength of composite materials subjected to variable amplitude (VA) loadings. Composite Structures, 2019, 228, 111338.	3.1	25
10	Nonâ€Isothermal Crystallization Kinetics of an Ethyleneâ€Vinylâ€Acetate. II. Timeâ€Temperatureâ€Crystallinityâ€Superposition. Polymer Engineering and Science, 2019, 59, 2550-2556.	1.5	5
11	Complete Set of Enthalpy Recovery Data Using Flash DSC: Experiment and Modeling. Macromolecules, 2018, 51, 1549-1558.	2.2	31
12	Phenomenological approach to the study of hierarchical damage mechanisms in composite materials subjected to fatigue loadings. Composite Structures, 2017, 175, 1-6.	3.1	33
13	Rheology and mechanics of polyether(ether)ketone â€“ Polyetherimide blends for composites in aeronautics. AIP Conference Proceedings, 2016, , .	0.3	8
14	Constitutive law describing the strength degradation kinetics of fibre-reinforced composites subjected to constant amplitude cyclic loading. Mechanics of Time-Dependent Materials, 2016, 20, 1-12.	2.3	33
15	Structural recovery of a single polystyrene thin film using nanocalorimetry to extend the aging time and temperature range. Thermochimica Acta, 2015, 603, 135-141.	1.2	60
16	Modeling the residual strength of carbon fiber reinforced composites subjected to cyclic loading. International Journal of Fatigue, 2015, 78, 31-37.	2.8	58
17	Calculation of the shrinkage-induced residual stress in a viscoelastic dental restorative material. Mechanics of Time-Dependent Materials, 2013, 17, 1-13.	2.3	15
18	Modeling the flexural fatigue behavior of glass-fiber-reinforced thermoplastic matrices. Mechanics of Time-Dependent Materials, 2013, 17, 15-23.	2.3	14

#	Article	IF	Citations
19	Viscoelasticity of nanobubbleâ€inflated ultrathin polymer films: Justification by the coupling model. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 214-224.	2.4	39
20	Finite element calculation of residual stress in dental restorative material. , 2012, , .		7
21	Timescales and properties of PSA (pressure sensitive adhesives). , 2012, , .		1
22	Modeling volume relaxation of amorphous polymers: Modification of the equation for the relaxation time in the KAHR model. Polymer, 2012, 53, 3613-3620.	1.8	46
23	Bulk and shear rheology of a symmetric threeâ€arm star polystyrene. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1233-1244.	2.4	31
24	Modeling of the isobaric and isothermal glass transitions of polystyrene. Journal of Applied Polymer Science, 2011, 122, 3751-3756.	1.3	15
25	Siliconeâ€rubberâ€based tactile sensors for the measurement of normal and tangential components of the contact force. Journal of Applied Polymer Science, 2011, 122, 3757-3769.	1.3	20
26	On the viscoelastic Poissonâ€™s ratio in amorphous polymers. Journal of Rheology, 2010, 54, 1009-1022.	1.3	43
27	On the interplay between viscoelasticity and structural relaxation in glassy amorphous polymers. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 724-739.	2.4	28
28	The relative placement of linear viscoelastic functions in amorphous glassy polymers. Journal of Rheology, 2009, 53, 339-356.	1.3	29
29	Modelling the yield stress and the Poissonâ€™s ratio of glassy polymers. E-Polymers, 2009, 9, .	1.3	2
30	Constitutive law describing the phenomenology of subyield mechanically stimulated glasses. Physical Review E, 2006, 74, 021504.	0.8	31
31	Residual Stresses in Amorphous Polymers. Macromolecular Symposia, 2005, 228, 1-16.	0.4	18