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	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
2	Modeling the residual strength of carbon fiber reinforced composites subjected to cyclic loading. International Journal of Fatigue, 2015, 78, 31-37.	2.8	58
3	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
4	On the viscoelastic Poissonâ€™s ratio in amorphous polymers. Journal of Rheology, 2010, 54, 1009-1022.	1.3	43
5	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
6	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
7	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
8	Strain based method for monitoring the health state of composite structures. Composites Part B: Engineering, 2019, 176, 107253.	5.9	33
9	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
10	Constitutive law describing the phenomenology of subyield mechanically stimulated glasses. Physical Review E, 2006, 74, 021504.	0.8	31
11	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
12	Complete Set of Enthalpy Recovery Data Using Flash DSC: Experiment and Modeling. Macromolecules, 2018, 51, 1549-1558.	2.2	31
13	The relative placement of linear viscoelastic functions in amorphous glassy polymers. Journal of Rheology, 2009, 53, 339-356.	1.3	29
14	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
15	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
16	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
17	Residual Stresses in Amorphous Polymers. Macromolecular Symposia, 2005, 228, 1-16.	0.4	18
18	Modeling of the isobaric and isothermal glass transitions of polystyrene. Journal of Applied Polymer Science, 2011, 122, 3751-3756.	1.3	15

#	Article	IF	Citations
19	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
20	Modeling the flexural fatigue behavior of glass-fiber-reinforced thermoplastic matrices. Mechanics of Time-Dependent Materials, 2013, 17, 15-23.	2.3	14
21	Principal Features of Fatigue and Residual Strength of Composite Materials Subjected to Constant Amplitude (CA) Loading. Materials, 2019, 12, 2586.	1.3	12
22	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
23	Fatigue of Composite Materials Subjected to Variable Loadings. Journal of Materials Engineering and Performance, 2019, 28, 6538-6543.	1.2	10
24	Rheology and mechanics of polyether(ether)ketone â€“ Polyetherimide blends for composites in aeronautics. AIP Conference Proceedings, 2016, , .	0.3	8
25	Finite element calculation of residual stress in dental restorative material. , 2012, , .		7
26	Nonisothermal Crystallization Kinetics of an Ethyleneâ€Vinylâ€Acetate: I Calorimetry Versus Rheology. Polymer Engineering and Science, 2019, 59, 2557-2563.	1.5	5
27	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
28	Mobility of Pressure-Densified and Pressure-Expanded Polystyrene Glasses: Dilatometry and a Test of KAHR Model. Macromolecules, 2021, 54, 8352-8364.	2.2	4
29	Modelling the yield stress and the Poissonâ€™s ratio of glassy polymers. E-Polymers, 2009, 9, .	1.3	2
30	Timescales and properties of PSA (pressure sensitive adhesives). , 2012, , .		1
31	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