

Gernot M Wallner

List of Publications by Year in descending order

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18
papers

405
citations

687363

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839539

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all docs

19
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19
times ranked

282
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermotropic layers for flat-plate collectorsâ€”A review of various concepts for overheating protection with polymeric materials. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 119-128.	6.2	60
2	Property and performance requirements for thermotropic layers to prevent overheating in an all polymeric flat-plate collector. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 614-620.	6.2	37
3	Non-destructive 2D-luminescence detection of EVA in aged PV modules: Correlation to calorimetric properties, additive distribution and a clue to aging parameters. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 307-317.	6.2	32
4	Optical properties of highly transparent polypropylene cast films: Influence of material structure, additives, and processing conditions. <i>Polymer Engineering and Science</i> , 2006, 46, 520-531.	3.1	31
5	Highly transparent polypropylene cast films: Relationships between optical properties, additives, and surface structure. <i>Polymer Engineering and Science</i> , 2007, 47, 1021-1032.	3.1	29
6	Fracture analysis of annealed PVDF films. <i>Polymer Testing</i> , 2008, 27, 392-402.	4.8	27
7	Correlation of spatially resolved photoluminescence and viscoelastic mechanical properties of encapsulating EVA in differently aged PV modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 855-870.	8.1	27
8	Spectroscopic Investigations of Phase-Separated Thermotropic Layers Based on UV Cured Acrylate Resins. <i>Macromolecular Symposia</i> , 2008, 265, 49-60.	0.7	26
9	Phase separated thermotropic layers based on UV cured acrylate resins â€” Effect of material formulation on overheating protection properties and application in a solar collector. <i>Solar Energy</i> , 2009, 83, 1689-1697.	6.1	23
10	Black pigmented polypropylene materials for solar absorbers. <i>Energy Procedia</i> , 2012, 30, 438-445.	1.8	22
11	Morphology of phase-separated thermotropic layers based on UV cured acrylate resins. <i>Polymers for Advanced Technologies</i> , 2009, 20, 1163-1167.	3.2	15
12	Nanometer scale characterization of polymer films by atomic-force microscopy. <i>Macromolecular Symposia</i> , 2002, 181, 457-466.	0.7	14
13	Optical properties of polymer films for transparent insulation. <i>Macromolecular Symposia</i> , 2002, 181, 399-410.	0.7	14
14	Effect of Material Structure and Additives on the Optical Properties of PP Cast Films. <i>Monatshefte für Chemie</i> , 2006, 137, 887-897.	1.8	14
15	Novel Solar Thermal Collector Systems in Polymer Design â€” Part 3: Aging Behavior of PP Absorber Materials. <i>Energy Procedia</i> , 2016, 91, 392-402.	1.8	12
16	Effect of carbon nanotubes on the global aging behavior of Î²-nucleated polypropylene random copolymers for absorbers of solar-thermal collectors. <i>Solar Energy</i> , 2018, 172, 141-145.	6.1	9
17	Hot air aging behavior of polypropylene random copolymers. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47350.	2.6	8
18	Fracture of poly(vinylidene fluoride): a combined synchrotron and laboratory in-situ X-ray scattering study. <i>Journal of Applied Crystallography</i> , 2007, 40, s564-s567.	4.5	3