

# Andreas Frank

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5067482/publications.pdf>

Version: 2024-02-01

24  
papers

421  
citations

933447

10  
h-index

752698

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

174  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fracture mechanics concept for the accelerated characterization of creep crack growth in PE-HD pipe grades. <i>Engineering Fracture Mechanics</i> , 2009, 76, 2780-2787.	4.3	74
2	A numerical methodology for lifetime estimation of HDPE pressure pipes. <i>Engineering Fracture Mechanics</i> , 2011, 78, 3049-3058.	4.3	65
3	Fracture Mechanics Lifetime Prediction of Polyethylene Pipes. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2019, 10, .	1.6	35
4	Numerical Assessment of PE 80 and PE 100 Pipe Lifetime Based on Paris-Erdogan Equation. <i>Macromolecular Symposia</i> , 2012, 311, 112-121.	0.7	32
5	Determination of slow crack growth behaviour of polyethylene pressure pipes with cracked round bar test. <i>Polymer Testing</i> , 2014, 40, 299-303.	4.8	27
6	Cyclic tests on cracked round bars as a quick tool to assess the long term behaviour of thermoplastics and elastomers. <i>Polymer Testing</i> , 2015, 45, 83-92.	4.8	27
7	The effect of residual stress on polymer pipe lifetime. <i>Engineering Fracture Mechanics</i> , 2013, 108, 98-108.	4.3	26
8	Residual stress in polyethylene pipes. <i>Polymer Testing</i> , 2016, 54, 288-295.	4.8	26
9	Investigation of slow crack growth initiation in polyethylene pipe grades with accelerated cyclic tests. <i>Engineering Fracture Mechanics</i> , 2013, 101, 2-9.	4.3	20
10	Accelerated Tests for Lifetime Prediction of PE-HD Pipe Grades. <i>Macromolecular Symposia</i> , 2017, 373, 1600096.	0.7	11
11	Influence of molecular structure and reinforcement on fatigue behavior of tough polypropylene materials. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	10
12	Effect of polyethylene and polypropylene cross-contamination on slow crack growth resistance. <i>International Journal of Polymer Analysis and Characterization</i> , 2020, 25, 649-666.	1.9	10
13	Analysis of Molecular and Morphological Effects on Slow Crack Growth in Modern PE Pipe Grades by Cyclic Fracture Mechanics Tests. <i>Macromolecular Symposia</i> , 2012, 311, 41-48.	0.7	8
14	Investigation of the Slow Crack Growth Behavior of Static and Cyclic Loaded Specimens of Polyethylene by 2D and 3D Optical Fracture Surface Analysis. <i>Macromolecular Symposia</i> , 2012, 311, 103-111.	0.7	8
15	Numerical simulations of cracked round bar test: Effect of residual stresses and crack asymmetry. <i>Engineering Fracture Mechanics</i> , 2018, 203, 18-31.	4.3	8
16	Slow crack growth resistance of modern PA-U12 grades measured by cyclic cracked round bar tests and strain hardening tests. <i>Polymer Testing</i> , 2020, 86, 106468.	4.8	8
17	Design of plastic pipes considering content of recycled material. <i>Procedia Structural Integrity</i> , 2019, 23, 293-298.	0.8	6
18	How hydrogen bonds influence the slow crack growth resistance of polyamide 12. <i>Polymer</i> , 2022, 239, 124437.	3.8	6

#	ARTICLE	IF	CITATIONS
19	Correlation of the cyclic cracked round bar test and hydrostatic pressure test for unplasticized polyvinylchloride. <i>Polymer Testing</i> , 2021, 95, 107125.	4.8	5
20	Structure-Property Relationships of Polyamide 12 Grades Exposed to Rapid Crack Extension. <i>Materials</i> , 2021, 14, 5899.	2.9	3
21	Soil Load on Plastic Pipe and its Influence on Lifetime. <i>Strojnický Casopis</i> , 2019, 69, 101-106.	0.9	3
22	Mechanisms of rapid fracture in PA12 grades. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, , 103145.	4.7	2
23	Lifetime Calculation of Soil-Loaded Non-Pressure Polymer Pipes. <i>Key Engineering Materials</i> , 2019, 827, 141-146.	0.4	1
24	On the slow crack growth process and associated structureâ€“property relationships in polyamide 12 grades. <i>Journal of Applied Polymer Science</i> , 0, , 52357.	2.6	0