

# Emanoil Linul

## List of Publications by Year in descending order

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81  
papers

3,384  
citations

136740

32  
h-index

161609

54  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1838  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber-Reinforced Polymer Composites: Manufacturing, Properties, and Applications. <i>Polymers</i> , 2019, 11, 1667.	2.0	776
2	A comparison between dynamic and static fracture toughness of polyurethane foams. <i>Polymer Testing</i> , 2013, 32, 673-680.	2.3	92
3	Manufacturing Technologies of Carbon/Glass Fiber-Reinforced Polymer Composites and Their Properties: A Review. <i>Polymers</i> , 2021, 13, 3721.	2.0	92
4	Compressive properties of zinc syntactic foams at elevated temperatures. <i>Composites Part B: Engineering</i> , 2019, 167, 122-134.	5.9	85
5	Crack initiation angles and propagation paths in polyurethane foams under mixed modes I/II and I/III loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 101, 152-161.	2.1	81
6	Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I+III loading. <i>Polymer Testing</i> , 2018, 67, 75-83.	2.3	80
7	Quasi-static compressive behavior of the ex-situ aluminum-alloy foam-filled tubes under elevated temperature conditions. <i>Materials Letters</i> , 2017, 206, 182-184.	1.3	78
8	Effect of manufacturing parameters on tensile properties of FDM printed specimens. <i>Procedia Structural Integrity</i> , 2020, 26, 313-320.	0.3	78
9	Refinements on fracture toughness of PUR foams. <i>Engineering Fracture Mechanics</i> , 2014, 129, 54-66.	2.0	74
10	The mechanical properties of expanded perlite-aluminium syntactic foam at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2018, 737, 590-596.	2.8	74
11	Mechanical behavior of sandwich composite beams made of foams and functionally graded materials. <i>International Journal of Solids and Structures</i> , 2013, 50, 519-530.	1.3	66
12	Shear and mode II fracture of PUR foams. <i>Engineering Failure Analysis</i> , 2015, 58, 465-476.	1.8	64
13	Poisson's Ratio of Closed-Cell Aluminium Foams. <i>Materials</i> , 2018, 11, 1904.	1.3	64
14	Assessment of collapse diagrams of rigid polyurethane foams under dynamic loading conditions. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 457-466.	1.9	62
15	The temperature effect on the axial quasi-static compressive behavior of ex-situ aluminum foam-filled tubes. <i>Composite Structures</i> , 2017, 180, 709-722.	3.1	62
16	Influence of Manufacturing Parameters on Mechanical Properties of Porous Materials by Selective Laser Sintering. <i>Materials</i> , 2019, 12, 871.	1.3	59
17	Crashworthiness performance and microstructural characteristics of foam-filled thin-walled tubes under diverse strain rate. <i>Journal of Alloys and Compounds</i> , 2019, 775, 675-689.	2.8	59
18	Application of TCD for brittle fracture of notched PUR materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 80, 87-95.	2.1	58

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19	The Temperature Effect on the Compressive Behavior of Closed-Cell Aluminum-Alloy Foams. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 99-108.	1.2	56
20	Collapse mechanisms of metal foam matrix composites under static and dynamic loading conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 214-224.	2.6	55
21	The temperature and anisotropy effect on compressive behavior of cylindrical closed-cell aluminum-alloy foams. <i>Journal of Alloys and Compounds</i> , 2018, 740, 1172-1179.	2.8	55
22	An engineering approach to predict mixed mode fracture of PUR foams based on ASED and micromechanical modelling. <i>Theoretical and Applied Fracture Mechanics</i> , 2017, 91, 148-154.	2.1	54
23	Study of factors influencing the mechanical properties of polyurethane foams under dynamic compression. <i>Journal of Physics: Conference Series</i> , 2013, 451, 012002.	0.3	51
24	Cryogenic and high temperature compressive properties of Metal Foam Matrix Composites. <i>Composite Structures</i> , 2019, 209, 490-498.	3.1	49
25	Mechanical properties of A356 and ZA27 metallic syntactic foams at cryogenic temperature. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152181.	2.8	49
26	On the Lateral Compressive Behavior of Empty and Ex-Situ Aluminum Foam-Filled Tubes at High Temperature. <i>Materials</i> , 2018, 11, 554.	1.3	47
27	Experimental and numerical crack paths in PUR foams. <i>Engineering Fracture Mechanics</i> , 2016, 167, 68-83.	2.0	42
28	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures. <i>Engineering Fracture Mechanics</i> , 2020, 225, 106274.	2.0	42
29	Compressive Behavior of Aluminum Microfibers Reinforced Semi-Rigid Polyurethane Foams. <i>Polymers</i> , 2018, 10, 1298.	2.0	41
30	Mode I and II fracture toughness investigation of Laser-Sintered Polyamide. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 106, 102497.	2.1	41
31	Low-cycle fatigue behaviour of ductile closed-cell aluminium alloy foams. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 597-604.	1.7	40
32	Fracture toughness of rigid polymeric foams: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2483-2514.	1.7	40
33	A Review on Synthetic Fibers for Polymer Matrix Composites: Performance, Failure Modes and Applications. <i>Materials</i> , 2022, 15, 4790.	1.3	40
34	Energy - Absorption and Efficiency Diagrams of Rigid PUR Foams. <i>Key Engineering Materials</i> , 0, 601, 246-249.	0.4	39
35	Experimental validation of micromechanical models for brittle aluminium alloy foam. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 83, 11-18.	2.1	38
36	Correlations between Process Parameters and Outcome Properties of Laser-Sintered Polyamide. <i>Polymers</i> , 2019, 11, 1850.	2.0	34

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37	Scaling of compression strength in disordered solids: metallic foams. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 55-62.	0.5	34
38	Axial crashworthiness performance of foam-based composite structures under extreme temperature conditions. <i>Composite Structures</i> , 2021, 271, 114156.	3.1	32
39	Determination of Flexural Properties of Rigid PUR Foams Using Digital Image Correlation. <i>Solid State Phenomena</i> , 0, 216, 116-121.	0.3	31
40	Out-of-plane crushing response of aluminum honeycombs in-situ filled with graphene-reinforced polyurethane foam. <i>Composite Structures</i> , 2020, 249, 112548.	3.1	30
41	Mode I Fracture Toughness of Polyamide and Alumide Samples obtained by Selective Laser Sintering Additive Process. <i>Polymers</i> , 2020, 12, 640.	2.0	30
42	Evaluation of Mixed Mode Fracture for PUR Foams. , 2014, 3, 1342-1352.		26
43	The effect of crack insertion for FDM printed PLA materials on Mode I and Mode II fracture toughness. <i>Procedia Structural Integrity</i> , 2020, 28, 1134-1139.	0.3	25
44	Mechanical properties of Light Expanded Clay Aggregated (LECA) filled tubes. <i>Materials Letters</i> , 2018, 217, 194-197.	1.3	23
45	Influence of Cell Topology on Mode I Fracture Toughness of Cellular Structures. <i>Physical Mesomechanics</i> , 2018, 21, 178-186.	1.0	22
46	Design and optimization of Metallic Foam Shell protective device against flying ballast impact damage in railway axles. <i>Materials and Design</i> , 2020, 196, 109120.	3.3	22
47	Hydroxyapatite coatings on Ti substrates by simultaneous precipitation and electrodeposition. <i>Applied Surface Science</i> , 2020, 527, 146820.	3.1	22
48	Size Effect on Fracture Toughness of Rigid Polyurethane Foams. <i>Solid State Phenomena</i> , 2012, 188, 205-210.	0.3	21
49	Numerical evaluation of two-dimensional micromechanical structures of anisotropic cellular materials: case study for polyurethane rigid foams. <i>Iranian Polymer Journal (English Edition)</i> , 2015, 24, 515-529.	1.3	20
50	Radial crushing response of ex-situ foam-filled tubes at elevated temperatures. <i>Composite Structures</i> , 2021, 277, 114634.	3.1	19
51	Anisotropic Compressive Behavior of Metallic Foams under Extreme Temperature Conditions. <i>Materials</i> , 2020, 13, 2329.	1.3	19
52	A suitable mixed mode I/II test specimen for fracture toughness study of polyurethane foam with different cell densities. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 117, 103171.	2.1	19
53	The notch effect on fracture of polyurethane materials. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 101-108.	0.5	18
54	Crashworthiness performance of lightweight Composite Metallic Foams at high temperatures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106516.	3.8	18

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55	Experimental Determination of Mechanical Properties of Aluminium Foams Using Digital Image Correlation. <i>Key Engineering Materials</i> , 0, 601, 254-257.	0.4	12
56	Characterization of brazed joints by electrical resistance spot brazing with Ni-based amorphous self-flux alloys. <i>Journal of Manufacturing Processes</i> , 2019, 37, 617-627.	2.8	11
57	Mode I critical energy release rate of additively manufactured polyamide samples. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 114, 102968.	2.1	11
58	Metal Foam-Filled Tubes as Plastic Dissipaters in Earthquake-Resistant Steel Buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 416, 012051.	0.3	10
59	Mixed-Mode Testing for an Asymmetric Four-Point Bending Configuration of Polyurethane Foams. <i>Applied Mechanics and Materials</i> , 0, 760, 239-244.	0.2	8
60	Manufacturing and Compressive Mechanical Behavior of Reinforced Polyurethane Flexible (PUF) Foams. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 416, 012053.	0.3	8
61	Nondestructive Evaluation of Aluminium Foam Panels Subjected to Impact Loading. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1148.	1.3	8
62	Crushing response of Composite Metallic Foams: Density and High Strain Rate effects. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159614.	2.8	8
63	Experimental investigations and numerical simulations of notch effect in cellular plastic materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 123, 012060.	0.3	6
64	Is Fracture Toughness of PUR Foams a Material Property? A Statistical Approach. <i>Materials</i> , 2020, 13, 4868.	1.3	6
65	Mechanical characterization of lightweight foam-based sandwich panels. <i>Materials Today: Proceedings</i> , 2021, 45, 4166-4170.	0.9	6
66	Quasi-Static Mechanical Characterization of Lightweight Fly Ash-Based Geopolymer Foams. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 416, 012102.	0.3	5
67	Niger Seed Oil-Based Biodiesel Production Using Transesterification Process: Experimental Investigation and Optimization for Higher Biodiesel Yield Using Box-Behnken Design and Artificial Intelligence Tools. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5987.	1.3	5
68	Analysis of Deformation Bands in Polyurethane Foams. <i>Key Engineering Materials</i> , 2014, 601, 250-253.	0.4	4
69	Experimental Determination of Mixed-Mode Fracture Toughness for Rigid Polyurethane Foams. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 221-237.	0.3	4
70	Uniaxial Compression Tests of Metallic Foams: A Recipe. <i>Key Engineering Materials</i> , 2014, 601, 237-241.	0.4	3
71	Development of Parametric Kelvin Structures with Closed Cells. <i>Solid State Phenomena</i> , 2016, 254, 49-54.	0.3	3
72	Compressive Behavior and Energy Absorption Capability of Reinforced Closed-Cell Aluminum Alloy Foams. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 416, 012079.	0.3	3

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73	Mixed mode fracture toughness of particleboard. <i>Procedia Structural Integrity</i> , 2018, 9, 47-54.	0.3	3
74	Mixed modes crack paths in SCB specimens obtained via SLS. <i>Procedia Structural Integrity</i> , 2022, 39, 801-807.	0.3	3
75	Performance Analysis of Three Side Roughened Solar Air Heater: A Preliminary Investigation. <i>Materials</i> , 2022, 15, 2541.	1.3	3
76	Fracture toughness in additive manufacturing by selective laser sintering: an overview. <i>Material Design and Processing Communications</i> , 2021, 3, e254.	0.5	2
77	Mechanical and fracture properties of particleboard. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 266-276.	0.5	2
78	The Influence of the Steel and Aluminium Components Separation at the Conductors Locking for Stress-Strain Tests. <i>Key Engineering Materials</i> , 0, 417-418, 693-696.	0.4	1
79	The Anisotropy Effect of Closed-Cell Polyisocyanurate (PIR) Rigid Foam under Quasi-Static Compression Loads. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 416, 012037.	0.3	1
80	Comparative Study of Plastic Strain Accumulations at Thermal Cycles for Solder Alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 416, 012092.	0.3	0
81	On the crack path under mixed mode loading on PUR foams. <i>Frattura Ed Integrita Strutturale</i> , 2016, , .	0.5	0