

Alkiviadis Paipetis

List of Publications by Year in descending order

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124
papers

4,301
citations

109321

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docs citations

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times ranked

3861
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-healing materials: A review of advances in materials, evaluation, characterization and monitoring techniques. <i>Composites Part B: Engineering</i> , 2016, 87, 92-119.	12.0	432
2	Effect of dispersion conditions on the thermo-mechanical and toughness properties of multi walled carbon nanotubes-reinforced epoxy. <i>Composites Part B: Engineering</i> , 2012, 43, 2697-2705.	12.0	264
3	Acoustic emission behavior of steel fibre reinforced concrete under bending. <i>Construction and Building Materials</i> , 2009, 23, 3532-3536.	7.2	226
4	Impact and after-impact properties of carbon fibre reinforced composites enhanced with multi-wall carbon nanotubes. <i>Composites Science and Technology</i> , 2010, 70, 553-563.	7.8	225
5	Acoustic emission characterization of the fracture process in fibre reinforced concrete. <i>Construction and Building Materials</i> , 2011, 25, 4126-4131.	7.2	208
6	Enhanced Fracture Properties of Carbon Reinforced Composites by the Addition of Multi-Wall Carbon Nanotubes. <i>Journal of Composite Materials</i> , 2009, 43, 977-985.	2.4	191
7	Effects of Fibre Geometry and Volume Fraction on the Flexural Behaviour of Steel-Fibre Reinforced Concrete. <i>Strain</i> , 2011, 47, e535.	2.4	132
8	Acoustic structural health monitoring of composite materials : Damage identification and evaluation in cross ply laminates using acoustic emission and ultrasonics. <i>Composites Science and Technology</i> , 2012, 72, 1127-1133.	7.8	109
9	On the fatigue life prediction of CFRP laminates using the Electrical Resistance Change method. <i>Composites Science and Technology</i> , 2011, 71, 630-642.	7.8	107
10	Microcapsule-based self-healing materials: Healing efficiency and toughness reduction vs. capsule size. <i>Composites Part B: Engineering</i> , 2019, 171, 78-86.	12.0	96
11	Effect of fibre sizing on the stress transfer efficiency in carbon/epoxy model composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1996, 27, 755-767.	7.6	81
12	Damage Monitoring of Carbon Fiber Reinforced Laminates Using Resistance Measurements. Improving Sensitivity Using Carbon Nanotube Doped Epoxy Matrix System. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 1025-1034.	2.5	77
13	Enhanced bonded aircraft repair using nano-modified adhesives. <i>Materials & Design</i> , 2012, 41, 394-402.	5.1	71
14	Influence of fiber chemical coating on the acoustic emission behavior of steel fiber reinforced concrete. <i>Cement and Concrete Composites</i> , 2012, 34, 62-67.	10.7	65
15	Mode I interlaminar fracture of CNF or/and PZT doped CFRPs via acoustic emission monitoring. <i>Composites Science and Technology</i> , 2007, 67, 822-828.	7.8	57
16	All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. <i>Composites Science and Technology</i> , 2018, 156, 158-165.	7.8	55
17	Use of NIR for structural characterization of urea-formaldehyde resins. <i>International Journal of Adhesion and Adhesives</i> , 2003, 23, 473-484.	2.9	54
18	Secondary Structure of Chorion Proteins of the Teleostean Fish <i>Dentex dentex</i> by ATR FT-IR and FT-Raman Spectroscopy. <i>Journal of Structural Biology</i> , 2000, 132, 112-122.	2.8	53

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19	On the electrical properties of multi scale reinforced composites for damage accumulation monitoring. <i>Composites Part B: Engineering</i> , 2012, 43, 2687-2696.	12.0	52
20	Development of Effective Lipase-Hybrid Nanoflowers Enriched with Carbon and Magnetic Nanomaterials for Biocatalytic Transformations. <i>Nanomaterials</i> , 2019, 9, 808.	4.1	50
21	High-Power All-Carbon Fully Printed and Wearable SWCNT-Based Organic Thermoelectric Generator. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11151-11165.	8.0	49
22	Enhancement of the mechanical performance of an epoxy resin and fiber reinforced epoxy resin composites by the introduction of CNF and PZT particles at the microscale. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1076-1081.	7.6	48
23	CNT-grafted glass fibers as a smart tool for epoxy cure monitoring, UV-sensing and thermal energy harvesting in model composites. <i>RSC Advances</i> , 2016, 6, 55514-55525.	3.6	47
24	Effect of CNTs addition on the erosive wear response of epoxy resin and carbon fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 299-307.	7.6	45
25	Radially Grown Graphene Nanoflakes on Carbon Fibers as Reinforcing Interface for Polymer Composites. <i>ACS Applied Nano Materials</i> , 2020, 3, 2402-2413.	5.0	44
26	Stress Transfer from the Matrix to the Fibre in a Fragmentation Test: Raman Experiments and Analytical Modeling. <i>Journal of Composite Materials</i> , 1999, 33, 377-399.	2.4	43
27	Fracture Behavior and Characterization of Lead-Free Brass Alloys for Machining Applications. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3193-3206.	2.5	43
28	Highly conductive ultra-sensitive SWCNT-coated glass fiber reinforcements for laminate composites structural health monitoring. <i>Composites Part B: Engineering</i> , 2019, 169, 37-44.	12.0	43
29	Acoustic emission monitoring of degradation of cross ply laminates. <i>Journal of the Acoustical Society of America</i> , 2010, 127, EL246-EL251.	1.1	41
30	Current injection phase thermography for low-velocity impact damage identification in composite laminates. <i>Materials & Design</i> , 2014, 55, 429-441.	5.1	40
31	Unification of fibre/matrix interfacial measurements with Raman microscopy. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 899-912.	2.5	39
32	Use of FT-NIR spectroscopy for on-line monitoring of formaldehyde-based resin synthesis. <i>European Polymer Journal</i> , 2003, 39, 1533-1540.	5.4	39
33	Environmental degradation of carbon nanotube-modified composite laminates: a study of electrical resistivity. <i>Mechanics of Composite Materials</i> , 2009, 45, 21-32.	1.4	38
34	Multistage fatigue life monitoring on carbon fibre reinforced polymers enhanced with multiwall carbon nanotubes. <i>Plastics, Rubber and Composites</i> , 2009, 38, 124-130.	2.0	36
35	Nano-enhanced composite materials under thermal shock and environmental degradation: A durability study. <i>Composites Part B: Engineering</i> , 2015, 70, 206-214.	12.0	36
36	A carbon fiber thermoelectric generator integrated as a lamina within an 8-ply laminate epoxy composite: Efficient thermal energy harvesting by advanced structural materials. <i>Applied Energy</i> , 2019, 253, 113512.	10.1	33

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37	Nano-reinforced polymeric healing agents for vascular self-repairing composites. <i>Materials and Design</i> , 2017, 116, 538-544.	7.0	32
38	Hybrid Nanomaterials of Magnetic Iron Nanoparticles and Graphene Oxide as Matrices for the Immobilization of β -Glucosidase: Synthesis, Characterization, and Biocatalytic Properties. <i>Frontiers in Materials</i> , 2018, 5, .	2.4	32
39	Development of self-contained microcapsules for optimised catalyst position in self-healing materials. <i>Polymer</i> , 2020, 187, 122084.	3.8	32
40	Machinability of Eco-Friendly Lead-Free Brass Alloys: Cutting-Force and Surface-Roughness Optimization. <i>Metals</i> , 2018, 8, 250.	2.3	31
41	Continuous debonding monitoring of a patch repaired helicopter stabilizer: Damage assessment and analysis. <i>Composite Structures</i> , 2015, 127, 231-244.	5.8	30
42	Carbon nanotube growth on high modulus carbon fibres: Morphological and interfacial characterization. <i>Surface and Interface Analysis</i> , 2013, 45, 1372-1381.	1.8	29
43	Optimal synergy between micro and nano scale: Hierarchical all carbon composite fibers for enhanced stiffness, interfacial shear strength and Raman strain sensing. <i>Composites Science and Technology</i> , 2018, 165, 240-249.	7.8	28
44	Mapping of Graphene Oxide and Single Layer Graphene Flakesâ€™ Defects Annealing and Healing. <i>Frontiers in Materials</i> , 2018, 5, .	2.4	27
45	Multi-scaled carbon reinforcements in ternary epoxy composite materials: Dispersion and electrical impedance study. <i>Composites Science and Technology</i> , 2017, 153, 7-17.	7.8	26
46	A study of the stress-transfer characteristics in model composites as a function of material processing, fibre sizing and temperature of the environment. <i>Composites Science and Technology</i> , 1997, 57, 827-838.	7.8	25
47	Damage monitoring in nanoenhanced composites using impedance spectroscopy. <i>Composites Science and Technology</i> , 2016, 134, 96-105.	7.8	25
48	Cadaveric Study of Anterior Cruciate Ligament Failure Patterns Under Uniaxial Tension Along the Ligament. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2010, 26, 957-967.	2.7	23
49	Shear alignment of a poly(styrene-butadiene-styrene) triblock copolymer/MWCNT nanocomposite. <i>Polymer</i> , 2017, 131, 1-9.	3.8	23
50	On the fatigue response of a bonded repaired aerospace composite using thermography. <i>Composite Structures</i> , 2018, 188, 461-469.	5.8	23
51	Printed Single-Wall Carbon Nanotube-Based Joule Heating Devices Integrated as Functional Laminae in Advanced Composites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39880-39893.	8.0	23
52	<i>In situ</i> damage monitoring of cross-ply laminates using acoustic emission. <i>Plastics, Rubber and Composites</i> , 2009, 38, 229-234.	2.0	22
53	Interlaminar Fracture Toughness of Carbon Fibreâ€™Reinforced Polymer Laminates With Nanoâ€™and Microâ€™Fillers. <i>Strain</i> , 2011, 47, e269.	2.4	21
54	High-performance cement/SWCNT thermoelectric nanocomposites and a structural thermoelectric generator device towards large-scale thermal energy harvesting. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14421-14438.	5.5	21

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55	Real-Time Debonding Monitoring of Composite Repaired Materials via Electrical, Acoustic, and Thermographic Methods. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 169-180.	2.5	20
56	Production of hierarchical all graphitic structures: A systematic study. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 444-457.	9.4	20
57	Concurrent recovery of mechanical and electrical properties in nanomodified capsule-based self-healing epoxies. <i>Polymer</i> , 2021, 227, 123843.	3.8	19
58	Monitoring of resin curing and hardening by ultrasound. <i>Construction and Building Materials</i> , 2012, 26, 755-760.	7.2	18
59	Acoustic Emission as a Tool for Damage Identification and Characterization in Glass Reinforced Cross Ply Laminates. <i>Applied Composite Materials</i> , 2013, 20, 489-503.	2.5	18
60	Quality assessment and damage detection in nanomodified adhesively-bonded composite joints using inkjet-printed interdigital sensors. <i>Composite Structures</i> , 2019, 211, 557-563.	5.8	18
61	Fully printed and flexible carbon nanotube-based thermoelectric generator capable for high-temperature applications. <i>Journal of Power Sources</i> , 2021, 507, 230323.	7.8	18
62	The Role of Synergies of MWCNTs and Carbon Black in the Enhancement of the Electrical and Mechanical Response of Modified Epoxy Resins. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3757.	2.5	17
63	Fracture mechanics properties and failure mechanisms of environmental-friendly brass alloys under impact, cyclic and monotonic loading conditions. <i>Engineering Failure Analysis</i> , 2018, 90, 497-517.	4.0	16
64	A high performance flexible and robust printed thermoelectric generator based on hybridized Te nanowires with PEDOT:PSS. <i>Applied Energy</i> , 2021, 294, 117004.	10.1	16
65	Innovative non-destructive evaluation and damage characterisation of composite aerostructures using thermography. <i>Plastics, Rubber and Composites</i> , 2011, 40, 342-348.	2.0	15
66	Study of the Effect of Damage on the Electrical Impedance of Carbon Nanotube Reinforced Epoxy Nanocomposites. <i>Journal of Sensors</i> , 2015, 2015, 1-7.	1.1	15
67	Multi-scaled carbon epoxy composites underwater immersion: A durability study. <i>Composites Science and Technology</i> , 2020, 199, 108373.	7.8	15
68	A simple model for the prediction of the fatigue delamination growth of impacted composite panels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 911-922.	3.4	14
69	Optimisation and analysis of the reinforcement effect of carbon nanotubes in a typical matrix system. <i>Meccanica</i> , 2015, 50, 461-478.	2.0	14
70	Microstructure and properties of lead-free brasses using post-processing heat treatment cycles. <i>Materials Science and Technology</i> , 2016, 32, 1771-1781.	1.6	14
71	Machinability evaluation and screening of leaded and lead-free brasses using a non-linear robust multifactorial profiler. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 3241-3254.	3.0	14
72	Final Heat Treatment as a Possible Solution for the Improvement of Machinability of Pb-Free Brass Alloys. <i>Metals</i> , 2018, 8, 575.	2.3	14

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73	Rupture of anterior cruciate ligament monitored by acoustic emission. Journal of the Acoustical Society of America, 2011, 129, EL217-EL222.	1.1	13
74	Stainless steel coupled with carbon nanotube-modified epoxy and carbon fibre composites: Electrochemical and mechanical study. Plastics, Rubber and Composites, 2016, 45, 95-105.	2.0	13
75	Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. Nanomaterials, 2021, 11, 1095.	4.1	13
76	On the use of dielectric spectroscopy for the real time assessment of the dispersion of carbon nanotubes in epoxy. RSC Advances, 2016, 6, 78838-78845.	3.6	12
77	Fiber/Matrix mechanical interaction in carbon fiber/bismaleimide model composites. Polymer Composites, 1996, 17, 937-947.	4.6	11
78	Advanced Glass Fiber Polymer Composite Laminate Operating as a Thermoelectric Generator: A Structural Device for Micropower Generation and Potential Large-Scale Thermal Energy Harvesting. ACS Applied Materials & Interfaces, 2021, 13, 24138-24153.	8.0	11
79	Modelling the stress transfer efficiency of carbon epoxy interfaces. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 1555-1577.	2.1	10
80	Corrosion and environmental degradation of bonded composite repair. International Journal of Structural Integrity, 2013, 4, 67-77.	3.3	10
81	Effect of carbon nanotube enhanced adhesives on degradation of bonded joints in corrosive environments. Plastics, Rubber and Composites, 2014, 43, 322-329.	2.0	10
82	Epoxy/Glass Fiber Nanostructured p- and n-Type Thermoelectric Enabled Model Composite Interphases. Applied Sciences (Switzerland), 2020, 10, 5352.	2.5	10
83	Raman Strain Sensing and Interfacial Stress Transfer of Hierarchical CNT-Coated Carbon Fibers. Journal of Materials Engineering and Performance, 2018, 27, 5095-5101.	2.5	9
84	Mechanical Properties Assessment of Low-Content Capsule-Based Self-Healing Structural Composites. Applied Sciences (Switzerland), 2020, 10, 5739.	2.5	9
85	A Novel Composite with Structural Health Monitoring Functionality via 2D and 3D Impedance Mapping Topography. Applied Sciences (Switzerland), 2021, 11, 1647.	2.5	9
86	Machinable Lead and Eco-Friendly Brass Alloys for High Performance Manufacturing Processes: A Critical Review. Metals, 2022, 12, 246.	2.3	9
87	Self-healing polymers: evaluation of self-healing process via non-destructive techniques. Plastics, Rubber and Composites, 2016, 45, 147-156.	2.0	8
88	Capsule-based self-healing polymers and composites. , 2020, , 259-278.		7
89	Prediction of the Seebeck coefficient of thermoelectric unidirectional fibre-reinforced composites. Composites Part B: Engineering, 2021, 223, 109111.	12.0	7
90	STRESS/STRAIN MEASUREMENTS IN ADVANCED COMPOSITES USING REMOTE LASER RAMAN MICROSCOPY. Nondestructive Testing and Evaluation, 1996, 12, 355-366.	2.1	6

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91	Room vs. temperature studies of model composites: modes of failure of carbon fibre/epoxy interfaces. <i>Composite Interfaces</i> , 2012, 19, 135-158.	2.3	6
92	Damage Assessment in Fibrous Composites Using Acoustic Emission. , 2012, , .		6
93	Linear and non-linear electrical dependency of carbon nanotube reinforced composites to internal damage. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 74, 012002.	0.6	6
94	Anisotropic damage of alumina/alumina CFCCs under long term high temperature exposure: Investigations by ultrasonic stiffness measurements and quasi-static tests. <i>Composites Science and Technology</i> , 2006, 66, 3221-3229.	7.8	5
95	Acoustic emission characterization of steel fibre reinforced concrete during bending. <i>Proceedings of SPIE</i> , 2010, , .	0.8	5
96	Stress Induced Changes in the Raman Spectrum of Carbon Nanostructures and Their Composites. <i>Solid Mechanics and Its Applications</i> , 2013, , 185-217.	0.2	5
97	Hierarchical Reinforcing Fibers for Energy Harvesting Applications - A Strength Study. <i>Key Engineering Materials</i> , 0, 827, 252-257.	0.4	5
98	An Approach toward the Realization of a Through-Thickness Glass Fiber/Epoxy Thermoelectric Generator. <i>Materials</i> , 2021, 14, 2173.	2.9	5
99	Healing Efficiency of CNTs-Modified-UF Microcapsules That Provide Higher Electrical Conductivity and EMI Shielding Properties. <i>Polymers</i> , 2021, 13, 2753.	4.5	5
100	Carbon fiber/epoxy composite laminates as through-thickness thermoelectric generators. <i>Composites Science and Technology</i> , 2022, 220, 109291.	7.8	5
101	Monitoring strain and damage in multi-phase composite materials using electrical resistance methods. , 2011, , .		4
102	Service and maintenance damage assessment of composite structures using various modes of infrared thermography. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 74, 012006.	0.6	4
103	Repair integrity monitoring of composite aerostructures using thermographic imaging. <i>Proceedings of SPIE</i> , 2010, , .	0.8	3
104	An Acoustic Emission Study for Monitoring Anterior Cruciate Ligament Failure Under Tension. <i>Experimental Mechanics</i> , 2013, 53, 767-774.	2.0	3
105	Enhanced out of Plane Electrical Conductivity in Polymer Composites Induced by CO2 Laser Irradiation of Carbon Fibers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3561.	2.5	3
106	Low-velocity impact damage identification using a novel current injection thermographic technique. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
107	Dispersion monitoring of carbon nanotube modified epoxy systems. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
108	Recovery of Fracture Toughness on Self-Healing Epoxies Using Ternary Nanommodified Microcapsules: A Parametric Study. <i>Key Engineering Materials</i> , 2019, 827, 258-262.	0.4	2

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109	Prediction of damage mechanisms of cross-ply composite materials using novel non-linear multiscale methodologies. Modelling and Simulation in Materials Science and Engineering, 0, , .	2.0	2
110	Nano-enhanced aerospace composites for increased damage tolerance and service life damage monitoring. , 2009, , .		1
111	Acoustic emission of steel-fiber concrete under four-point bending. , 2009, , .		1
112	Service induced damage in composite laminates: non destructive assessment, quantification and modeling. , 2010, , .		1
113	In service damage assessment of bonded composite repairs with full field thermographic techniques. Proceedings of SPIE, 2011, , .	0.8	1
114	Simultaneous acoustic and dielectric real time curing monitoring of epoxy systems. , 2012, , .		1
115	Critical and subcritical damage monitoring of bonded composite repairs using innovative non-destructive techniques. Proceedings of SPIE, 2012, , .	0.8	1
116	Interlaminar shear strength and thermo-mechanical properties of nano-enhanced composite materials under thermal shock. , 2013, , .		1
117	Modelling the in-plane thermoelectric properties of fibre-reinforced multi-directional laminates. Composites Science and Technology, 2021, 218, 109130.	7.8	1
118	Crack Growth and Delamination Analysis in GFRP Composite Materials. Applied Sciences (Switzerland), 2022, 12, 1945.	2.5	1
119	Effect of fiber surface conditioning on the acoustic emission behavior of steel fiber reinforced concrete. Proceedings of SPIE, 2011, , .	0.8	0
120	Mechanical degradation of cross-ply laminates monitored by acoustic emission. , 2011, , .		0
121	Structural health monitoring of aerospace materials used in industry using electrical potential mapping methods. Proceedings of SPIE, 2012, , .	0.8	0
122	Monitoring of Failure of Composite Laminates using Acoustic Emission. , 2013, , 613-618.		0
123	ON-LINE MONITORING OF LOAD INDUCED DEGRADATION OF CROSS PLY LAMINATES. , 2010, , .		0
124	Continuous Monitoring of Setting and Hardening of Epoxy Resin. , 2013, , 491-496.		0