# Alkiviadis Paipetis

List of Publications by Year
in descending order



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|---|---|---|---|
| 124 papers | 4,301 citations | 109321 35 h-index | 118850 62 g-index |
| 124 all docs | 124 docs citations | 124 times ranked | 3861 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Machinable Leaded and Eco-Friendly Brass Alloys for High Performance Manufacturing Processes: A Critical Review. Metals, 2022, 12, 246. | 2.3 | 9 |
| 2 | Carbon fiber/epoxy composite laminates as through-thickness thermoelectric generators. Composites Science and Technology, 2022, 220, 109291. | 7.8 | 5 |
| 3 | Crack Growth and Delamination Analysis in GFRP Composite Materials. Applied Sciences (Switzerland), 2022, 12, 1945. | 2.5 | 1 |
| 4 | High-performance cement/SWCNT thermoelectric nanocomposites and a structural thermoelectric generator device towards large-scale thermal energy harvesting. Journal of Materials Chemistry C, 2021, 9, 14421-14438. | 5.5 | 21 |
| 5 | A Novel Composite with Structural Health Monitoring Functionality via 2D and 3D Impedance Mapping Topography. Applied Sciences (Switzerland), 2021, 11, 1647. | 2.5 | 9 |
| 6 | High-Power All-Carbon Fully Printed and Wearable SWCNT-Based Organic Thermoelectric Generator. ACS Applied Materials & Interfaces, 2021, 13, 11151-11165. | 8.0 | 49 |
| 7 | Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. Nanomaterials, 2021, 11, 1095. | 4.1 | 13 |
| 8 | An Approach toward the Realization of a Through-Thickness Glass Fiber/Epoxy Thermoelectric Generator. Materials, 2021, 14, 2173. | 2.9 | 5 |
| 9 | 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 |
| 10 | Concurrent recovery of mechanical and electrical properties in nanomodified capsule-based self-healing epoxies. Polymer, 2021, 227, 123843. | 3.8 | 19 |
| 11 | A high performance flexible and robust printed thermoelectric generator based on hybridized Te nanowires with PEDOT:PSS. Applied Energy, 2021, 294, 117004. | 10.1 | 16 |
| 12 | Printed Single-Wall Carbon Nanotube-Based Joule Heating Devices Integrated as Functional Laminae in Advanced Composites. ACS Applied Materials & Interfaces, 2021, 13, 39880-39893. | 8.0 | 23 |
| 13 | Healing Efficiency of CNTs-Modified-UF Microcapsules That Provide Higher Electrical Conductivity and EMI Shielding Properties. Polymers, 2021, 13, 2753. | 4.5 | 5 |
| 14 | Fully printed and flexible carbon nanotube-based thermoelectric generator capable for high-temperature applications. Journal of Power Sources, 2021, 507, 230323. | 7.8 | 18 |
| 15 | Prediction of the Seebeck coefficient of thermoelectric unidirectional fibre-reinforced composites. Composites Part B: Engineering, 2021, 223, 109111. | 12.0 | 7 |
| 16 | Modelling the in-plane thermoelectric properties of fibre-reinforced multi-directional laminates. Composites Science and Technology, 2021, 218, 109130. | 7.8 | 1 |
| 17 | Development of self-contained microcapsules for optimised catalyst position in self-healing materials. Polymer, 2020, 187, 122084. | 3.8 | 32 |
| 18 | Capsule-based self-healing polymers and composites. , 2020, , 259-278. | | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multi-scaled carbon epoxy composites underwater immersion: A durability study. Composites Science and Technology, 2020, 199, 108373. | 7.8 | 15 |
| 20 | Mechanical Properties Assessment of Low-Content Capsule-Based Self-Healing Structural Composites. Applied Sciences (Switzerland), 2020, 10, 5739. | 2.5 | 9 |
| 21 | Epoxy/Glass Fiber Nanostructured p- and n-Type Thermoelectric Enabled Model Composite Interphases. Applied Sciences (Switzerland), 2020, 10, 5352. | 2.5 | 10 |
| 22 | Enhanced out of Plane Electrical Conductivity in Polymer Composites Induced by CO2 Laser Irradiation of Carbon Fibers. Applied Sciences (Switzerland), 2020, 10, 3561. | 2.5 | 3 |
| 23 | Radially Grown Graphene Nanoflakes on Carbon Fibers as Reinforcing Interface for Polymer Composites. ACS Applied Nano Materials, 2020, 3, 2402-2413. | 5.0 | 44 |
| 24 | A carbon fiber thermoelectric generator integrated as a lamina within an 8-ply laminate epoxy composite: Efficient thermal energy harvesting by advanced structural materials. Applied Energy, 2019, 253, 113512. | 10.1 | 33 |
| 25 | The Role of Synergies of MWCNTs and Carbon Black in the Enhancement of the Electrical and Mechanical Response of Modified Epoxy Resins. Applied Sciences (Switzerland), 2019, 9, 3757. | 2.5 | 17 |
| 26 | Development of Effective Lipase-Hybrid Nanoflowers Enriched with Carbon and Magnetic Nanomaterials for Biocatalytic Transformations. Nanomaterials, 2019, 9, 808. | 4.1 | 50 |
| 27 | Microcapsule-based self-healing materials: Healing efficiency and toughness reduction vs. capsule size. Composites Part B: Engineering, 2019, 171, 78-86. | 12.0 | 96 |
| 28 | Highly conductive ultra-sensitive SWCNT-coated glass fiber reinforcements for laminate composites structural health monitoring. Composites Part B: Engineering, 2019, 169, 37-44. | 12.0 | 43 |
| 29 | Recovery of Fracture Toughness on Self-Healing Epoxies Using Ternary Nanomodified Microcapsules: A Parametric Study. Key Engineering Materials, 2019, 827, 258-262. | 0.4 | 2 |
| 30 | Quality assessment and damage detection in nanomodified adhesively-bonded composite joints using inkjet-printed interdigital sensors. Composite Structures, 2019, 211, 557-563. | 5.8 | 18 |
| 31 | Fracture mechanics properties and failure mechanisms of environmental-friendly brass alloys under impact, cyclic and monotonic loading conditions. Engineering Failure Analysis, 2018, 90, 497-517. | 4.0 | 16 |
| 32 | On the fatigue response of a bonded repaired aerospace composite using thermography. Composite Structures, 2018, 188, 461-469. | 5.8 | 23 |
| 33 | All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. Composites Science and Technology, 2018, 156, 158-165. | 7.8 | 55 |
| 34 | 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 |
| 35 | Hybrid Nanomaterials of Magnetic Iron Nanoparticles and Graphene Oxide as Matrices for the Immobilization of Î²-Glucosidase: Synthesis, Characterization, and Biocatalytic Properties. Frontiers in Materials, 2018, 5, . | 2.4 | 32 |
| 36 | Mapping of Graphene Oxide and Single Layer Graphene Flakesâ€"Defects Annealing and Healing. Frontiers in Materials, 2018, 5, . | 2.4 | 27 |

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| 37 | Optimal synergy between micro and nano scale: Hierarchical all carbon composite fibers for enhanced stiffness, interfacial shear strength and Raman strain sensing. Composites Science and Technology, 2018, 165, 240-249. | 7.8 | 28 |
| 38 | Machinability of Eco-Friendly Lead-Free Brass Alloys: Cutting-Force and Surface-Roughness Optimization. Metals, 2018, 8, 250. | 2.3 | 31 |
| 39 | Final Heat Treatment as a Possible Solution for the Improvement of Machinability of Pb-Free Brass Alloys. Metals, 2018, 8, 575. | 2.3 | 14 |
| 40 | Nano-reinforced polymeric healing agents for vascular self-repairing composites. Materials and Design, 2017, 116, 538-544. | 7.0 | 32 |
| 41 | Multi-scaled carbon reinforcements in ternary epoxy composite materials: Dispersion and electrical impedance study. Composites Science and Technology, 2017, 153, 7-17. | 7.8 | 26 |
| 42 | Shear alignment of a poly(styrene-butadiene-styrene) triblock copolymer/MWCNT nanocomposite. Polymer, 2017, 131, 1-9. | 3.8 | 23 |
| 43 | Production of hierarchical all graphitic structures: A systematic study. Journal of Colloid and Interface Science, 2017, 487, 444-457. | 9.4 | 20 |
| 44 | 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 |
| 45 | Microstructure and properties of lead-free brasses using post-processing heat treatment cycles. Materials Science and Technology, 2016, 32, 1771-1781. | 1.6 | 14 |
| 46 | 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 |
| 47 | Damage monitoring in nanoenhanced composites using impedance spectroscopy. Composites Science and Technology, 2016, 134, 96-105. | 7.8 | 25 |
| 48 | Self-healing polymers: evaluation of self-healing process via non-destructive techniques. Plastics, Rubber and Composites, 2016, 45, 147-156. | 2.0 | 8 |
| 49 | Machinability evaluation and screening of leaded and lead-free brasses using a non-linear robust multifactorial profiler. International Journal of Advanced Manufacturing Technology, 2016, 86, 3241-3254. | 3.0 | 14 |
| 50 | CNT-grafted glass fibers as a smart tool for epoxy cure monitoring, UV-sensing and thermal energy harvesting in model composites. RSC Advances, 2016, 6, 55514-55525. | 3.6 | 47 |
| 51 | Effect of CNTs addition on the erosive wear response of epoxy resin and carbon fibre composites. Composites Part A: Applied Science and Manufacturing, 2016, 84, 299-307. | 7.6 | 45 |
| 52 | Self-healing materials: A review of advances in materials, evaluation, characterization and monitoring techniques. Composites Part B: Engineering, 2016, 87, 92-119. | 12.0 | 432 |
| 53 | Service and maintenance damage assessment of composite structures using various modes of infrared thermography. IOP Conference Series: Materials Science and Engineering, 2015, 74, 012006. | 0.6 | 4 |
| 54 | Study of the Effect of Damage on the Electrical Impedance of Carbon Nanotube Reinforced Epoxy Nanocomposites. Journal of Sensors, 2015, 2015, 1-7. | 1.1 | 15 |

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| 55 | Continuous debonding monitoring of a patch repaired helicopter stabilizer: Damage assessment and analysis. Composite Structures, 2015, 127, 231-244. | 5.8 | 30 |
| 56 | Linear and non-linear electrical dependency of carbon nanotube reinforced composites to internal damage. IOP Conference Series: Materials Science and Engineering, 2015, 74, 012002. | 0.6 | 6 |
| 57 | Nano-enhanced composite materials under thermal shock and environmental degradation: A durability study. Composites Part B: Engineering, 2015, 70, 206-214. | 12.0 | 36 |
| 58 | Optimisation and analysis of the reinforcement effect of carbon nanotubes in a typical matrix system. Meccanica, 2015, 50, 461-478. | 2.0 | 14 |
| 59 | Real-Time Debonding Monitoring of Composite Repaired Materials via Electrical, Acoustic, and Thermographic Methods. Journal of Materials Engineering and Performance, 2014, 23, 169-180. | 2.5 | 20 |
| 60 | Current injection phase thermography for low-velocity impact damage identification in composite laminates. Materials & Design, 2014, 55, 429-441. | 5.1 | 40 |
| 61 | Fracture Behavior and Characterization of Lead-Free Brass Alloys for Machining Applications. Journal of Materials Engineering and Performance, 2014, 23, 3193-3206. | 2.5 | 43 |
| 62 | 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 |
| 63 | Acoustic Emission as a Tool for Damage Identification and Characterization in Glass Reinforced Cross Ply Laminates. Applied Composite Materials, 2013, 20, 489-503. | 2.5 | 18 |
| 64 | Carbon nanotube growth on high modulus carbon fibres: Morphological and interfacial characterization. Surface and Interface Analysis, 2013, 45, 1372-1381. | 1.8 | 29 |
| 65 | Stress Induced Changes in the Raman Spectrum of Carbon Nanostructures and Their Composites. Solid Mechanics and Its Applications, 2013, , 185-217. | 0.2 | 5 |
| 66 | An Acoustic Emission Study for Monitoring Anterior Cruciate Ligament Failure Under Tension. Experimental Mechanics, 2013, 53, 767-774. | 2.0 | 3 |
| 67 | Corrosion and environmental degradation of bonded composite repair. International Journal of Structural Integrity, 2013, 4, 67-77. | 3.3 | 10 |
| 68 | Monitoring of Failure of Composite Laminates using Acoustic Emission. , 2013, , 613-618. | | 0 |
| 69 | Interlaminar shear strength and thermo-mechanical properties of nano-enhanced composite materials under thermal shock. , 2013, , . | | 1 |
| 70 | Continuous Monitoring of Setting and Hardening of Epoxy Resin. , 2013, , 491-496. | | 0 |
| 71 | Structural health monitoring of aerospace materials used in industry using electrical potential mapping methods. Proceedings of SPIE, 2012, , . | 0.8 | 0 |
| 72 | Simultaneous acoustic and dielectric real time curing monitoring of epoxy systems. , 2012, , . | | 1 |

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| 73 | Room vs. temperature studies of model composites: modes of failure of carbon fibre/epoxy interfaces. Composite Interfaces, 2012, 19, 135-158. | 2.3 | 6 |
| 74 | Low-velocity impact damage identification using a novel current injection thermographic technique. Proceedings of SPIE, 2012, , . | 0.8 | 2 |
| 75 | Critical and subcritical damage monitoring of bonded composite repairs using innovative non-destructive techniques. Proceedings of SPIE, 2012, , . | 0.8 | 1 |
| 76 | Dispersion monitoring of carbon nanotube modified epoxy systems. Proceedings of SPIE, 2012, , . | 0.8 | 2 |
| 77 | Enhanced bonded aircraft repair using nano-modified adhesives. Materials & Design, 2012, 41, 394-402. | 5.1 | 71 |
| 78 | Effect of dispersion conditions on the thermo-mechanical and toughness properties of multi walled carbon nanotubes-reinforced epoxy. Composites Part B: Engineering, 2012, 43, 2697-2705. | 12.0 | 264 |
| 79 | On the electrical properties of multi scale reinforced composites for damage accumulation monitoring. Composites Part B: Engineering, 2012, 43, 2687-2696. | 12.0 | 52 |
| 80 | Acoustic structural health monitoring of composite materials : Damage identification and evaluation in cross ply laminates using acoustic emission and ultrasonics. Composites Science and Technology, 2012, 72, 1127-1133. | 7.8 | 109 |
| 81 | Damage Assessment in Fibrous Composites Using Acoustic Emission. , 2012, , . | | 6 |
| 82 | Influence of fiber chemical coating on the acoustic emission behavior of steel fiber reinforced concrete. Cement and Concrete Composites, 2012, 34, 62-67. | 10.7 | 65 |
| 83 | Monitoring of resin curing and hardening by ultrasound. Construction and Building Materials, 2012, 26, 755-760. | 7.2 | 18 |
| 84 | Effect of fiber surface conditioning on the acoustic emission behavior of steel fiber reinforced concrete. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 85 | Mechanical degradation of cross-ply laminates monitored by acoustic emission. , 2011, , . | | 0 |
| 86 | In service damage assessment of bonded composite repairs with full field thermographic techniques. Proceedings of SPIE, 2011, , . | 0.8 | 1 |
| 87 | Interlaminar Fracture Toughness of Carbon Fibreâ€Reinforced Polymer Laminates With Nanoâ€•and Microâ€Fillers. Strain, 2011, 47, e269. | 2.4 | 21 |
| 88 | Effects of Fibre Geometry and Volume Fraction on the Flexural Behaviour of Steelâ€Fibre Reinforced Concrete. Strain, 2011, 47, e535. | 2.4 | 132 |
| 89 | Acoustic emission characterization of the fracture process in fibre reinforced concrete. Construction and Building Materials, 2011, 25, 4126-4131. | 7.2 | 208 |
| 90 | On the fatigue life prediction of CFRP laminates using the Electrical Resistance Change method. Composites Science and Technology, 2011, 71, 630-642. | 7.8 | 107 |

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| 91 | Innovative non-destructive evaluation and damage characterisation of composite aerostructures using thermography. Plastics, Rubber and Composites, 2011, 40, 342-348. | 2.0 | 15 |
| 92 | Monitoring strain and damage in multi-phase composite materials using electrical resistance methods. , 2011, , . | | 4 |
| 93 | Rupture of anterior cruciate ligament monitored by acoustic emission. Journal of the Acoustical Society of America, 2011, 129, EL217-EL222. | 1.1 | 13 |
| 94 | Service induced damage in composite laminates: non destructive assessment, quantification and modeling. , 2010, , . | | 1 |
| 95 | Acoustic emission characterization of steel fibre reinforced concrete during bending. Proceedings of SPIE, 2010, , . | 0.8 | 5 |
| 96 | Impact and after-impact properties of carbon fibre reinforced composites enhanced with multi-wall carbon nanotubes. Composites Science and Technology, 2010, 70, 553-563. | 7.8 | 225 |
| 97 | Acoustic emission monitoring of degradation of cross ply laminates. Journal of the Acoustical Society of America, 2010, 127, EL246-EL251. | 1.1 | 41 |
| 98 | Repair integrity monitoring of composite aerostructures using thermographic imaging. Proceedings of SPIE, 2010, , . | 0.8 | 3 |
| 99 | Cadaveric Study of Anterior Cruciate Ligament Failure Patterns Under Uniaxial Tension Along the Ligament. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2010, 26, 957-967. | 2.7 | 23 |
| 100 | ON-LINE MONITORING OF LOAD INDUCED DEGRADATION OF CROSS PLY LAMINATES. , 2010, , . | | 0 |
| 101 | Damage Monitoring of Carbon Fiber Reinforced Laminates Using Resistance Measurements. Improving Sensitivity Using Carbon Nanotube Doped Epoxy Matrix System. Journal of Intelligent Material Systems and Structures, 2009, 20, 1025-1034. | 2.5 | 77 |
| 102 | In situdamage monitoring of cross-ply laminates using acoustic emission. Plastics, Rubber and Composites, 2009, 38, 229-234. | 2.0 | 22 |
| 103 | Multistage fatigue life monitoring on carbon fibre reinforced polymers enhanced with multiwall carbon nanotubes. Plastics, Rubber and Composites, 2009, 38, 124-130. | 2.0 | 36 |
| 104 | Nano-enhanced aerospace composites for increased damage tolerance and service life damage monitoring. , 2009, , . | | 1 |
| 105 | Environmental degradation of carbon nanotube-modified composite laminates: a study of electrical resistivity. Mechanics of Composite Materials, 2009, 45, 21-32. | 1.4 | 38 |
| 106 | Acoustic emission behavior of steel fibre reinforced concrete under bending. Construction and Building Materials, 2009, 23, 3532-3536. | 7.2 | 226 |
| 107 | Enhanced Fracture Properties of Carbon Reinforced Composites by the Addition of Multi-Wall Carbon Nanotubes. Journal of Composite Materials, 2009, 43, 977-985. | 2.4 | 191 |
| 108 | Acoustic emission of steel-fiber concrete under four-point bending. , 2009, , . | | 1 |

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| 109 | 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. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1076-1081. | 7.6 | 48 |
| 110 | Mode I interlaminar fracture of CNF or/and PZT doped CFRPs via acoustic emission monitoring. Composites Science and Technology, 2007, 67, 822-828. | 7.8 | 57 |
| 111 | Anisotropic damage of alumina/alumina CFCCs under long term high temperature exposure: Investigations by ultrasonic stiffness measurements and quasi-static tests. Composites Science and Technology, 2006, 66, 3221-3229. | 7.8 | 5 |
| 112 | A simple model for the prediction of the fatigue delamination growth of impacted composite panels. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 911-922. | 3.4 | 14 |
| 113 | Use of NIR for structural characterization of ureaâ€“formaldehyde resins. International Journal of Adhesion and Adhesives, 2003, 23, 473-484. | 2.9 | 54 |
| 114 | Use of FT-NIR spectroscopy for on-line monitoring of formaldehyde-based resin synthesis. European Polymer Journal, 2003, 39, 1533-1540. | 5.4 | 39 |
| 115 | Modelling the stressâ€“transfer efficiency of carbonâ€“epoxy interfaces. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 1555-1577. | 2.1 | 10 |
| 116 | Secondary Structure of Chorion Proteins of the Teleostean Fish Dentex dentex by ATR FT-IR and FT-Raman Spectroscopy. Journal of Structural Biology, 2000, 132, 112-122. | 2.8 | 53 |
| 117 | Stress Transfer from the Matrix to the Fibre in a Fragmentation Test: Raman Experiments and Analytical Modeling. Journal of Composite Materials, 1999, 33, 377-399. | 2.4 | 43 |
| 118 | Unification of fibre/matrix interfacial measurements with Raman microscopy. Journal of Raman Spectroscopy, 1999, 30, 899-912. | 2.5 | 39 |
| 119 | A study of the stress-transfer characteristics in model composites as a function of material processing, fibre sizing and temperature of the environment. Composites Science and Technology, 1997, 57, 827-838. | 7.8 | 25 |
| 120 | Effect of fibre sizing on the stress transfer efficiency in carbon/epoxy model composites. Composites Part A: Applied Science and Manufacturing, 1996, 27, 755-767. | 7.6 | 81 |
| 121 | Fiber/Matrix mechanical interaction in carbon fiber/bismaleimide model composites. Polymer Composites, 1996, 17, 937-947. | 4.6 | 11 |
| 122 | STRESS/STRAIN MEASUREMENTS IN ADVANCED COMPOSITES USING REMOTE LASER RAMAN MICROSCOPY. Nondestructive Testing and Evaluation, 1996, 12, 355-366. | 2.1 | 6 |
| 123 | Hierarchical Reinforcing Fibers for Energy Harvesting Applications - A Strength Study. Key Engineering Materials, 0, 827, 252-257. | 0.4 | 5 |
| 124 | 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 |