

Jacques Lamon

List of Publications by Year in descending order

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91
papers

3,572
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138484

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docs citations

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times ranked

1329
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Direct comparison between monofilament and multifilament tow testing for evaluating the tensile strength distribution of SiC fibers. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1928-1937. | 5.7 | 9 |
| 2 | Investigation of Specimen Size Effects on P-Quantile Diagrams and Normal Distributions of Critical Flaw Strengths in Fiber Tows. <i>Journal of Composites Science</i> , 2022, 6, 171. | 3.0 | 2 |
| 3 | Static Fatigue of SiC/SiC Minicomposites at High Temperatures Up to 1200 Å°C in Air: Multiscale Approach. <i>Journal of Composites Science</i> , 2021, 5, 67. | 3.0 | 2 |
| 4 | Investigation of flaw strength distributions from tensile force-strain curves of fiber tows. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106262. | 7.6 | 10 |
| 5 | Reinforcement of ceramic matrix composites by ceramic continuous fibers. , 2021, , 55-93. | | 1 |
| 6 | Review: creep of fibre-reinforced ceramic matrix composites. <i>International Materials Reviews</i> , 2020, 65, 28-62. | 19.3 | 17 |
| 7 | Static Fatigue of SiC Multifilament Tows at Temperatures up to 1200 Å°C in Air. <i>Ceramics</i> , 2019, 2, 426-440. | 2.6 | 11 |
| 8 | Statistical-Probabilistic Approach to the Lifetime and Strength Degradation of E-Glass Filaments and Bundles under Constant Tensile Loading in Water. <i>Journal of Composites Science</i> , 2019, 3, 78. | 3.0 | 2 |
| 9 | Experimental assessment of damage-thermal diffusivity relationship in unidirectional fibre-reinforced composite under axial tensile test. <i>Acta Materialia</i> , 2019, 173, 302-312. | 7.9 | 3 |
| 10 | Influence of an original manufacturing process on the properties and microstructure of SiC/SiC tubular composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 123, 170-179. | 7.6 | 28 |
| 11 | Improvement of silicon carbide fibers mechanical properties by Cl ₂ etching. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5301-5310. | 5.7 | 16 |
| 12 | Damage and failure of SiC fiber tows during environment activated slow crack growth: Residual behavior and Strength-Probability-Time diagrams. <i>Acta Materialia</i> , 2017, 131, 197-205. | 7.9 | 32 |
| 13 | A new inverse approach for the localization and characterization of defects based on compressive experiments. <i>Computational Mechanics</i> , 2016, 57, 1061-1074. | 4.0 | 8 |
| 14 | Investigation of statistical distributions of fracture strengths for flax fibre using the tow-based approach. <i>Journal of Materials Science</i> , 2016, 51, 8687-8698. | 3.7 | 10 |
| 15 | Multiscale Thermal Characterization of Mechanically Loaded Ceramic Matrix Composite. <i>Experimental Mechanics</i> , 2015, 55, 783-794. | 2.0 | 12 |
| 16 | Investigation of the residual tensile behavior of fiber bundles after static fatigue: Implications for the prediction of durability of composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 67, 149-156. | 7.6 | 5 |
| 17 | Damage monitoring and identification in SiC/SiC minicomposites using combined acousto-ultrasonics and acoustic emission. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 57, 8-15. | 7.6 | 64 |
| 18 | Real-time evaluation of energy attenuation: A novel approach to acoustic emission analysis for damage monitoring of ceramic matrix composites. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1673-1679. | 5.7 | 54 |

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|----|--|-----|-----------|
| 19 | Identification de la signature acoustique des différents mécanismes d'endommagement lors d'essais de fatigue sur CMC. Application de classificateurs supervisés et non supervisés. Revue Des Composites Et Des Materiaux Avances, 2013, 23, 85-98. | 0.6 | 0 |
| 20 | Aspects probabilistes de la durée de vie en fatigue. Influence des défauts. Revue Des Composites Et Des Materiaux Avances, 2013, 23, 181-196. | 0.6 | 0 |
| 21 | Flaw strength distributions and statistical parameters for ceramic fibers: The normal distribution. Physical Review E, 2012, 85, 051106. | 2.1 | 20 |
| 22 | Resistance to Fatigue at Intermediate Temperatures in Air for SiC and SiC/SiC Composites: Statistical Distributions of Lifetimes and Strength Degradation. Journal of the American Ceramic Society, 2012, 95, 3613-3621. | 3.8 | 19 |
| 23 | Properties and Characteristics of SiC and SiC/SiC Composites. , 2012, , 323-338. | | 13 |
| 24 | Statistical flaw strength distributions for glass fibres: Correlation between bundle test and AFM-derived flaw size density functions. Acta Materialia, 2012, 60, 3711-3718. | 7.9 | 23 |
| 25 | Analysis of Acoustic Emission energy release during static fatigue tests at intermediate temperatures on Ceramic Matrix Composites: Towards rupture time prediction. Composites Science and Technology, 2012, 72, 1001-1007. | 7.8 | 66 |
| 26 | Virtual testing applied to transverse multiple cracking of tows in woven ceramic composites. Mechanics Research Communications, 2011, 38, 579-585. | 1.8 | 16 |
| 27 | Investigation of subcritical crack growth using load relaxation tests on fiber bundles. Acta Materialia, 2011, 59, 2850-2857. | 7.9 | 8 |
| 28 | Stochastic models of fragmentation of brittle fibers or matrix in composites. Composites Science and Technology, 2010, 70, 743-751. | 7.8 | 19 |
| 29 | Influence of Interface Characteristics on the Mechanical Properties of Hi-Nicalon type S or Tyranno S3 Fiber Reinforced SiC/SiC Minicomposites. International Journal of Applied Ceramic Technology, 2010, 7, 291-303. | 2.1 | 88 |
| 30 | Multiscale Modelling of the Influence of Damage on the Thermal Properties of Ceramic Matrix Composites. Advances in Science and Technology, 2010, 73, 65-71. | 0.2 | 2 |
| 31 | Delayed Failure of Hi-Nicalon and Hi-Nicalon S Multifilament Tows and Single Filaments at Intermediate Temperatures (500-800°C). Journal of the American Ceramic Society, 2009, 92, 702-709. | 3.8 | 78 |
| 32 | Oxidation of Silicon Carbide Fibers During Static Fatigue in Air at Intermediate Temperatures. Journal of the American Ceramic Society, 2009, 92, 2067-2073. | 3.8 | 66 |
| 33 | Characterization of fibre/matrix interfaces in carbon/carbon composites. Composites Science and Technology, 2009, 69, 1442-1446. | 7.8 | 43 |
| 34 | Stochastic approach to multiple cracking in composite systems based on the extreme-values theory. Composites Science and Technology, 2009, 69, 1607-1614. | 7.8 | 26 |
| 35 | In situ fibre strength determination in metal matrix composites. Composites Science and Technology, 2009, 69, 2580-2586. | 7.8 | 28 |
| 36 | Mesure de l'intensité de la liaison interfaciale fibre/matrice par essais de push-out / push-back, application aux composites carbone-carbone. Materiaux Et Techniques, 2008, 96, 115-120. | 0.9 | 1 |

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|----|---|------|-----------|
| 37 | Tensile Creep Behavior of SiC-Based Fibers With a Low Oxygen Content. Journal of the American Ceramic Society, 2007, 90, 1146-1156. | 3.8 | 74 |
| 38 | Analysis of crack deviation in ceramic matrix composites and multilayers based on the Cook and Gordon mechanism. Composites Science and Technology, 2007, 67, 2052-2060. | 7.8 | 54 |
| 39 | A method to distinguish extrinsic and intrinsic fracture-origin populations in monolithic ceramics. Journal of the European Ceramic Society, 2006, 26, 3887-3895. | 5.7 | 6 |
| 40 | Micromechanics-Based Evaluation of Interfaces in Ceramic Matrix Composites. Advances in Science and Technology, 2006, 50, 37-45. | 0.2 | 3 |
| 41 | Ceramic Matrix Composite with Increased Thermal Conductivity. Advances in Science and Technology, 2006, 45, 1405-1410. | 0.2 | 1 |
| 42 | Fatigue statique de monofilaments et de fils SiC Hi-Nicalon Å 500 Å°C et 800 Å°C. Revue Des Composites Et Des Materiaux Avances, 2006, 16, 221-241. | 0.6 | 3 |
| 43 | DÃ©finition d'un potentiel de dÃ©viation des fissures dans les CMC et les multicouches. Une aide Å la sÃ©lection des constituants. Revue Des Composites Et Des Materiaux Avances, 2006, 16, 147-166. | 0.6 | 0 |
| 44 | Prediction of elastic properties of carbon fibers and CVI matrices. Carbon, 2005, 43, 2044-2053. | 10.3 | 31 |
| 45 | The tensile properties of carbon matrices at temperatures up to 2200Å°C. Carbon, 2005, 43, 2054-2065. | 10.3 | 41 |
| 46 | Micromechanics based model of fatigue/oxidation for ceramic matrix composites. Composites Science and Technology, 2005, 65, 369-374. | 7.8 | 64 |
| 47 | MÃ©thodes de mesures de champs et d'identification des propriÃ©tÃ©s Ã©lastiques par corrÃ©lation d'images numÃ©riques. Application Å l'Ã©tude d'un joint de brasure cÃ©ramique. Revue Des Composites Et Des Materiaux Avances, 2005, 15, 19-31. | 0.6 | 0 |
| 48 | Delayed Failure at Intermediate Temperatures (600Å°Å“700Å°C) in Air in Silicon Carbide Multifilament Tows. Journal of the American Ceramic Society, 2004, 87, 888-893. | 3.8 | 67 |
| 49 | The tensile behavior of carbon fibers at high temperatures up to 2400 Å°C. Carbon, 2004, 42, 715-725. | 10.3 | 171 |
| 50 | Failure of fiber bundles. Composites Science and Technology, 2004, 64, 701-710. | 7.8 | 79 |
| 51 | Creep behaviour of a SiC/Si-B-C composite with a self-healing multilayered matrix. Journal of the European Ceramic Society, 2003, 23, 1105-1114. | 5.7 | 44 |
| 52 | A constitutive model for the mechanical behavior of a 3D C/C composite. Mechanics of Materials, 2002, 34, 161-177. | 3.2 | 27 |
| 53 | Thermomechanical properties of carbon fibres at high temperatures (up to 2000Å°C). Composites Science and Technology, 2002, 62, 499-504. | 7.8 | 102 |
| 54 | A probabilistic-statistical approach to the ultimate failure of ceramic-matrix compositesâ€”part I: experimental investigation of 2D woven SiC/SiC composites. Composites Science and Technology, 2002, 62, 385-393. | 7.8 | 34 |

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|----|---|------|-----------|
| 55 | A probabilistic statistical approach to the ultimate failure of ceramic-matrix composites" part II: macroscopic model. Composites Science and Technology, 2002, 62, 395-399. | 7.8 | 15 |
| 56 | Sharp indentation behavior of carbon/carbon composites and varieties of carbon. Carbon, 2002, 40, 2567-2579. | 10.3 | 61 |
| 57 | SiC/SiC minicomposites with nanoscale multilayered fibre coatings. Composites Science and Technology, 2001, 61, 363-367. | 7.8 | 29 |
| 58 | A micromechanics-based approach to the mechanical behavior of brittle-matrix composites. Composites Science and Technology, 2001, 61, 2259-2272. | 7.8 | 149 |
| 59 | Influence of Strong Fiber/Coating Interfaces on the Mechanical Behavior and Lifetime of Hi-Nicalon/(PyC/SiC) _n /SiC Minicomposites. Journal of the American Ceramic Society, 2001, 84, 787-794. | 3.8 | 69 |
| 60 | The concept of a strong interface applied to SiC/SiC composites with a BN interphase. Acta Materialia, 2000, 48, 4609-4618. | 7.9 | 112 |
| 61 | The influence of the interphase and associated interfaces on the deflection of matrix cracks in ceramic matrix composites. Composites Part A: Applied Science and Manufacturing, 2000, 31, 1179-1190. | 7.6 | 92 |
| 62 | Probabilistic-statistical approach to the mechanical behavior of ceramic matrix composites (CMCs). Advanced Composite Materials, 1999, 8, 97-106. | 1.9 | 3 |
| 63 | Interfacial behavior of microcomposites during creep at elevated temperatures. Journal of the European Ceramic Society, 1999, 19, 2297-2303. | 5.7 | 17 |
| 64 | Creep of SiC/SiC microcomposites. Journal of the European Ceramic Society, 1999, 19, 2285-2296. | 5.7 | 18 |
| 65 | Modelling of the stress/strain behaviour of a carbon/carbon composite with a 2.5 dimensional fibre architecture under tensile and shear loads at room temperature. Composites Science and Technology, 1999, 59, 1-12. | 7.8 | 34 |
| 66 | Hi-Nicalon/SiC Minicomposites with (Pyrocarbon/SiC) _n Nanoscale Multilayered Interphases. Journal of the American Ceramic Society, 1999, 82, 2465-2473. | 3.8 | 83 |
| 67 | Micro/minicomposites: a useful approach to the design and development of non-oxide CMCs. Composites Part A: Applied Science and Manufacturing, 1999, 30, 537-547. | 7.6 | 96 |
| 68 | Probabilistic-statistical approach to matrix damage and stress-strain behavior of 2-D woven SiC/SiC ceramic matrix composites. Journal of the European Ceramic Society, 1998, 18, 1797-1808. | 5.7 | 34 |
| 69 | Damage and failure mechanisms of a3-directional carbon/carbon composite under uniaxial tensile and shear loads. Acta Materialia, 1998, 46, 6631-6643. | 7.9 | 44 |
| 70 | Tensile static fatigue of 2D SiC/SiC composites with multilayered (PyC/SiC) _n interphases at high temperatures in oxidizing atmosphere. Composites Part A: Applied Science and Manufacturing, 1998, 29, 1157-1164. | 7.6 | 42 |
| 71 | Influence des contraintes résiduelles sur le comportement mécanique des composites à matrice céramique. Revue De Metallurgie, 1997, 94, 207-218. | 0.3 | 1 |
| 72 | Study of thermal residual stresses in ceramic matrix composites. Journal of Alloys and Compounds, 1997, 259, 260-264. | 5.5 | 14 |

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|----|--|-----|-----------|
| 73 | Damage and failure in ceramic matrix minicomposites: Experimental study and model. Acta Materialia, 1997, 45, 1025-1044. | 7.9 | 144 |
| 74 | Fracture statistics applied to modelling the non-linear stress-strain behavior in microcomposites: Influence of interfacial parameters. International Journal of Fracture, 1996, 82, 297-316. | 2.2 | 44 |
| 75 | Fracture Toughness of 2-D Woven SiC/SiC CVI-Composites with Multilayered Interphases. Journal of the American Ceramic Society, 1996, 79, 849-858. | 3.8 | 141 |
| 76 | Microstructural Stability and Creep Behavior of SiC (Nicalon) Fibers in Carbon Monoxide and Argon Environments. Journal of the American Ceramic Society, 1996, 79, 2673-2686. | 3.8 | 44 |
| 77 | La rupture des céramiques. Revue De Metallurgie, 1995, 92, 265-284. | 0.3 | 3 |
| 78 | Tensile creep behaviour of a silicon carbide-based fibre with a low oxygen content. Journal of Materials Science, 1995, 30, 661-677. | 3.7 | 86 |
| 79 | Determination of Fracture Toughness in 2-D Woven SiC Matrix Composites Made by Chemical Vapor Infiltration. Journal of the American Ceramic Society, 1995, 78, 1201-1211. | 3.8 | 17 |
| 80 | Microcomposite Test Procedure for Evaluating the Interface Properties of Ceramic Matrix Composites. Journal of the American Ceramic Society, 1995, 78, 401-405. | 3.8 | 109 |
| 81 | Analyses of fiber push-out tests performed on Nicalon/SiC composites with tailored interfaces. Composites Part B: Engineering, 1995, 5, 1387-1401. | 0.6 | 16 |
| 82 | Thermal residual stresses in ceramic matrix composites. I. Axisymmetrical model and finite element analysis. Acta Metallurgica Et Materialia, 1995, 43, 2241-2253. | 1.8 | 77 |
| 83 | Influence d'interphases pyrocarbone déposées par CVI pulsée sur les caractéristiques mécaniques de matériaux composites unidirectionnels. Journal De Physique III, 1995, 5, 937-951. | 0.3 | 9 |
| 84 | Model of the Nonlinear Mechanical Behavior of 2D SiC-SiC Chemical Vapor Infiltration Composites. Journal of the American Ceramic Society, 1994, 77, 2118-2126. | 3.8 | 58 |
| 85 | Thermal Stress Failure of Ceramics under Repeated Rapid Heatings. Journal of the American Ceramic Society, 1991, 74, 1188-1196. | 3.8 | 17 |
| 86 | Ceramics Reliability: Statistical Analysis of Multiaxial Failure Using the Weibull Approach and the Multiaxial Elemental Strength Model. Journal of the American Ceramic Society, 1990, 73, 2204-2212. | 3.8 | 37 |
| 87 | Statistical Approaches to Failure for Ceramic Reliability Assessment. Journal of the American Ceramic Society, 1988, 71, 106-112. | 3.8 | 105 |
| 88 | Caractérisation de l'endommagement de composites tissés à matrice SiC. Revue De Physique Appliquée, 1988, 23, 193-200. | 0.4 | 5 |
| 89 | La fiabilité des matériaux céramiques. Materiaux Et Techniques, 1985, 73, 171-177. | 0.9 | 1 |
| 90 | Statistical Analysis of Bending Strengths for Brittle Solids: A Multiaxial Fracture Problem. Journal of the American Ceramic Society, 1983, 66, 177-182. | 3.8 | 92 |

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|----|--|-----|-----------|
| 91 | Prediction of Lifetime in Static Fatigue at High Temperatures for Ceramic Matrix Composites. Advanced Materials Research, 0, 112, 129-140. | 0.3 | 13 |