Gilles Lubineau

List of Publications by Citations

203 papers	5,454 citations	40 h-index	64 g-index
216 ext. papers	6,423 ext. citations	5.6 avg, IF	6.55 L-index

#	Paper	IF	Citations
203	Flexible, Highly Graphitized Carbon Aerogels Based on Bacterial Cellulose/Lignin: Catalyst-Free Synthesis and its Application in Energy Storage Devices. *Advanced Functional Materials*, **2015**, 25, 3193-3202	15.6	219
202	A review of strategies for improving the degradation properties of laminated continuous-fiber/epoxy composites with carbon-based nanoreinforcements. *Carbon*, **2012**, 50, 2377-2395	10.4	178
201	Coaxial Thermoplastic Elastomer-Wrapped Carbon Nanotube Fibers for Deformable and Wearable Strain Sensors. *Advanced Functional Materials*, **2018**, 28, 1705591	15.6	163
200	Ultrasensitive, Stretchable Strain Sensors Based on Fragmented Carbon Nanotube Papers. *ACS Applied Materials & Interfaces*, **2017**, 9, 4835-4842	9.5	141
199	The temperature-dependent microstructure of PEDOT/PSS films: insights from morphological, mechanical and electrical analyses. *Journal of Materials Chemistry C*, **2014**, 2, 9903-9910	7.1	140
198	A morphing strategy to couple non-local to local continuum mechanics. *Journal of the Mechanics and Physics of Solids*, **2012**, 60, 1088-1102	5	118
197	Improving electrical conductivity in polycarbonate nanocomposites using highly conductive PEDOT/PSS coated MWCNTs. *ACS Applied Materials & Interfaces*, **2013**, 5, 6189-200	9.5	112
196	On a damage mesomodel for laminates. *Composites Science and Technology*, **2001**, 61, 2149-2158	8.6	112
195	An enhanced mesomodel for laminates based on micromechanics. *Composites Science and Technology*, **2002**, 62, 533-541	8.6	108
194	A highly sensitive, low-cost, wearable pressure sensor based on conductive hydrogel spheres. *Nanoscale*, **2015**, 7, 14766-73	7.7	105
193	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. *Journal of Materials Chemistry C*, **2015**, 3, 2528-2538	7.1	100
192	Construction of a micromechanics-based intralaminar mesomodel, and illustrations in ABAQUS/Standard. *Computational Materials Science*, **2008**, 43, 137-145	3.2	98
191	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. *Nanoscale*, **2016**, 8, 12294-306	7.7	95
190	Towards a bridge between the micro- and mesomechanics of delamination for laminated composites. *Composites Science and Technology*, **2006**, 66, 698-712	8.6	86
189	High-ampacity conductive polymer microfibers as fast response wearable heaters and electromechanical actuators. *Journal of Materials Chemistry C*, **2016**, 4, 1238-1249	7.1	80
188	Analysis of interlaminar fracture toughness and damage mechanisms in composite laminates reinforced with sprayed multi-walled carbon nanotubes. *Materials & Design*, **2014**, 53, 921-927		77
187	A morphing approach to couple state-based peridynamics with classical continuum mechanics. *Computer Methods in Applied Mechanics and Engineering*, **2016**, 301, 336-358	5.7	74

186	Adaptive coupling between damage mechanics and peridynamics: A route for objective simulation of material degradation up to complete failure. *Journal of the Mechanics and Physics of Solids*, **2016**, 94, 453-472	5	71
185	Characterising the loading direction sensitivity of 3D woven composites: Effect of z-binder architecture. *Composites Part A: Applied Science and Manufacturing*, **2016**, 90, 577-588	8.4	70
184	Identification of the parameters of an elastic material model using the constitutive equation gap method. *Computational Mechanics*, **2010**, 46, 521-531	4	64
183	Deformable and wearable carbon nanotube microwire-based sensors for ultrasensitive monitoring of strain, pressure and torsion. *Nanoscale*, **2017**, 9, 604-612	7.7	62
182	Lignin-based carbon fibers: Carbon nanotube decoration and superior thermal stability. *Carbon*, **2014**, 80, 91-102	10.4	61
181	Coupling of nonlocal and local continuum models by the Arlequin approach. *International Journal for Numerical Methods in Engineering*, **2012**, 89, 671-685	2.4	61
180	On a damage mesomodel for laminates: micromechanics basis and improvement. *Mechanics of Materials*, **2003**, 35, 763-775	3.3	59
179	Double-Twisted Conductive Smart Threads Comprising a Homogeneously and a Gradient-Coated Thread for Multidimensional Flexible Pressure-Sensing Devices. *Advanced Functional Materials*, **2016**, 26, 4078-4084	15.6	57
178	Light-Activated Rapid-Response Polyvinylidene-Fluoride-Based Flexible Films. *Advanced Materials*, **2016**, 28, 4665-70	24	56
177	Laser-engraved carbon nanotube paper for instilling high sensitivity, high stretchability, and high linearity in strain sensors. *Nanoscale*, **2017**, 9, 10897-10905	7.7	55
176	Interface debonding characterization by image correlation integrated with Double Cantilever Beam kinematics. *International Journal of Solids and Structures*, **2015**, 55, 79-91	3.1	54
175	Carbon nanotubes with silver nanoparticle decoration and conductive polymer coating for improving the electrical conductivity of polycarbonate composites. *Carbon*, **2015**, 81, 720-730	10.4	50
174	A fully coupled diffusion-reaction scheme for moisture sorption–desorption in an anhydride-cured epoxy resin. *Polymer*, **2012**, 53, 5582-5595	3.9	50
173	A Pyramidal Modeling Scheme for Laminates - Identification of Transverse Cracking. *International Journal of Damage Mechanics*, **2010**, 19, 499-518	3	50
172	A Morphing framework to couple non-local and local anisotropic continua. *International Journal of Solids and Structures*, **2013**, 50, 1332-1341	3.1	48
171	An effective finite element model for the prediction of hydrogen induced cracking in steel pipelines. *International Journal of Hydrogen Energy*, **2012**, 37, 16214-16230	6.7	48
170	Study on the role of laser surface irradiation on damage and decohesion of Al/epoxy joints. *International Journal of Adhesion and Adhesives*, **2012**, 39, 33-41	3.4	44
169	The morphing method as a flexible tool for adaptive local/non-local simulation of static fracture. *Computational Mechanics*, **2014**, 54, 711-722	4	43

168	The constitutive compatibility method for identification of material parameters based on full-field measurements. *Computer Methods in Applied Mechanics and Engineering*, **2013**, 265, 1-14	5.7	43
167	Porous core-shell carbon fibers derived from lignin and cellulose nanofibrils. *Materials Letters*, **2013**, 109, 175-178	3.3	43
166	A Computational Damage Micromodel of Laminated Composites. *International Journal of Fracture*, **2006**, 137, 139-150	2.3	43
165	Unraveling the Order and Disorder in Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate) Nanofilms. *Macromolecules*, **2015**, 48, 5688-5696	5.5	40
164	Recent advancements in mechanical characterisation of 3D woven composites. *Mechanics of Advanced Materials and Modern Processes*, **2017**, 3,	2.2	40
163	Laser-based surface patterning of composite plates for improved secondary adhesive bonding. *Composites Part A: Applied Science and Manufacturing*, **2018**, 109, 84-94	8.4	40
162	Process monitoring of glass reinforced polypropylene laminates using fiber Bragg gratings. *Composites Science and Technology*, **2016**, 123, 143-150	8.6	39
161	Damage characteristics in 3D stitched composites with various stitch parameters under in-plane tension. *Composites Part A: Applied Science and Manufacturing*, **2015**, 71, 17-31	8.4	39
160	Computational modeling of elastic properties of carbon nanotube/polymer composites with interphase regions. Part I: Micro-structural characterization and geometric modeling. *Computational Materials Science*, **2014**, 81, 641-651	3.2	36
159	Micromodel-based simulations for laminated composites. *Composites Science and Technology*, **2009**, 69, 1364-1371	8.6	36
158	Electrical impedance spectroscopy (EIS)-based evaluation of biological tissue phantoms to study multifrequency electrical impedance tomography (Mf-EIT) systems. *Journal of Visualization*, **2016**, 19, 691-713	1.6	34
157	An efficient and accurate 3D displacements tracking strategy for digital volume correlation. *Optics and Lasers in Engineering*, **2014**, 58, 126-135	4.6	34
156	Durability of CFRP laminates under thermomechanical loading: A micro-meso damage model. *Composites Science and Technology*, **2006**, 66, 983-992	8.6	34
155	Identifying design parameters controlling damage behaviors of continuous fiber-reinforced thermoplastic composites using micromechanics as a virtual testing tool. *International Journal of Solids and Structures*, **2017**, 117, 177-190	3.1	33
154	Distributed internal strain measurement during composite manufacturing using optical fibre sensors. *Composites Science and Technology*, **2015**, 120, 49-57	8.6	33
153	Global sensitivity analysis in the identification of cohesive models using full-field kinematic data. *International Journal of Solids and Structures*, **2015**, 55, 66-78	3.1	33
152	Effect of Al2O3 particles on mechanical and tribological properties of Al-Mg dual-matrix nanocomposites. *Ceramics International*, **2020**, 46, 5779-5787	5.1	33
151	Making a Bilateral Compression/Tension Sensor by Pre-Stretching Open-Crack Networks in Carbon Nanotube Papers. *ACS Applied Materials & Interfaces*, **2018**, 10, 33507-33515	9.5	33

150	Human-Finger Electronics Based on Opposing Humidity-Resistance Responses in Carbon Nanofilms. *Small*, **2017**, 13, 1603486	11	32
149	Estimating and understanding the efficiency of nanoparticles in enhancing the conductivity of carbon nanotube/polymer composites. *Results in Physics*, **2018**, 10, 81-90	3.7	32
148	Probing the Role of Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate)-Coated Multiwalled Carbon Nanotubes in the Thermal and Mechanical Properties of Polycarbonate Nanocomposites. *Industrial & Engineering Chemistry Research*, **2014**, 53, 3539-3549	3.9	32
147	On the enhancement of bond toughness for Al/epoxy T-peel joints with laser treated substrates. *International Journal of Fracture*, **2011**, 171, 139-150	2.3	32
146	Micro-mechanics based damage mechanics for 3D orthogonal woven composites: Experiment and numerical modelling. *Composite Structures*, **2016**, 156, 115-124	5.3	27
145	Comparison of Subset-Based Local and Finite Element-Based Global Digital Image Correlation. *Experimental Mechanics*, **2015**, 55, 887-901	2.6	27
144	A morphological investigation of conductive networks in polymers loaded with carbon nanotubes. *Computational Materials Science*, **2017**, 130, 21-38	3.2	26
143	Drastic modification of the piezoresistive behavior of polymer nanocomposites by using conductive polymer coatings. *Composites Science and Technology*, **2015**, 117, 342-350	8.6	26
142	Monitoring and simulations of hydrolysis in epoxy matrix composites during hygrothermal aging. *Composites Part A: Applied Science and Manufacturing*, **2015**, 68, 184-192	8.4	25
141	Post-impact flexural behavior of carbon-aramid/epoxy hybrid composites. *Composite Structures*, **2020**, 239, 112022	5.3	25
140	On the effect of interfacial patterns on energy dissipation in plastically deforming adhesive bonded ductile sheets. *International Journal of Solids and Structures*, **2020**, 198, 31-40	3.1	25
139	Principles and Applications of Microwave Testing for Woven and Non-Woven Carbon Fibre-Reinforced Polymer Composites: a Topical Review. *Applied Composite Materials*, **2018**, 25, 965-982	2	25
138	Understanding the mechanisms that change the conductivity of damaged ITO-coated polymeric films: A micro-mechanical investigation. *Solar Energy Materials and Solar Cells*, **2014**, 130, 199-207	6.4	25
137	The thermal properties of a carbon nanotube-enriched epoxy: Thermal conductivity, curing, and degradation kinetics. *Journal of Applied Polymer Science*, **2013**, 130, 2722-2733	2.9	25
136	A Dissipation Gap Method for full-field measurement-based identification of elasto-plastic material parameters. *International Journal for Numerical Methods in Engineering*, **2012**, 91, 685-704	2.4	25
135	A goal-oriented field measurement filtering technique for the identification of material model parameters. *Computational Mechanics*, **2009**, 44, 591-603	4	25
134	In situ analysis of interfacial damage in adhesively bonded composite joints subjected to various surface pretreatments. *Composites Part A: Applied Science and Manufacturing*, **2019**, 116, 216-223	8.4	25
133	Effect of camera temperature variations on stereo-digital image correlation measurements. *Applied Optics*, **2015**, 54, 10089-95	0.2	24

132	Illustrations of a microdamage model for laminates under oxidizing thermal cycling. *Composites Science and Technology*, **2009**, 69, 3-9	8.6	24
131	Pont entre les « micro » et « méso » mécaniques des composites stratifiés. *Comptes Rendus - Mecanique*, **2003**, 331, 537-544	2.1	24
130	On the detectability of transverse cracks in laminated composites using electrical potential change measurements. *Composite Structures*, **2015**, 121, 237-246	5.3	23
129	Electrical behavior of laminated composites with intralaminar degradation: A comprehensive micro-meso homogenization procedure. *Composite Structures*, **2014**, 109, 178-188	5.3	23
128	Alcohol Recognition by Flexible, Transparent and Highly Sensitive Graphene-Based Thin-Film Sensors. *Scientific Reports*, **2017**, 7, 4317	4.9	23
127	Thermomechanical and hygroelastic properties of an epoxy system under humid and cold-warm cycling conditions. *Polymer Degradation and Stability*, **2014**, 99, 146-155	4.7	23
126	Estimation of residual stresses in laminated composites using field measurements on a cracked sample. *Composites Science and Technology*, **2008**, 68, 2761-2769	8.6	23
125	Effects of the cooling rate on the shear behavior of continuous glass fiber/impact polypropylene composites (GF-IPP). *Composites Part A: Applied Science and Manufacturing*, **2016**, 91, 41-52	8.4	23
124	Space-time tomography for continuously deforming objects. *ACM Transactions on Graphics*, **2018**, 37, 1-14	7.6	22
123	Response of fiber Bragg gratings bonded on a glass/epoxy laminate subjected to static loadings. *Composite Structures*, **2015**, 130, 75-84	5.3	22
122	A highly stretchable strain-insensitive temperature sensor exploits the Seebeck effect in nanoparticle-based printed circuits. *Journal of Materials Chemistry A*, **2019**, 7, 24493-24501	13	22
121	Revealing the effects of matrix behavior on low-velocity impact response of continuous fiber-reinforced thermoplastic laminates. *Composite Structures*, **2019**, 210, 239-249	5.3	22
120	Electrical impedance spectroscopy for measuring the impedance response of carbon-fiber-reinforced polymer composite laminates. *Composite Structures*, **2017**, 168, 510-521	5.3	21
119	Characterizing the toughness of an epoxy resin after wet aging using compact tension specimens with non-uniform moisture content. *Polymer Degradation and Stability*, **2014**, 109, 319-326	4.7	21
118	Buckled Conductive Polymer Ribbons in Elastomer Channels as Stretchable Fiber Conductor. *Advanced Functional Materials*, **2020**, 30, 1907316	15.6	21
117	Characterizing the influence of matrix ductility on damage phenomenology in continuous fiber-reinforced thermoplastic laminates undergoing quasi-static indentation. *Composite Structures*, **2018**, 186, 324-334	5.3	21
116	Heating-Rate-Triggered Carbon-Nanotube-based 3-Dimensional Conducting Networks for a Highly Sensitive Noncontact Sensing Device. *Scientific Reports*, **2016**, 6, 19632	4.9	20
115	Computational modeling of elastic properties of carbon nanotube/polymer composites with interphase regions. Part II: Mechanical modeling. *Computational Materials Science*, **2014**, 81, 652-661	3.2	20

114	Investigating the Inter-Tube Conduction Mechanism in Polycarbonate Nanocomposites Prepared with Conductive Polymer-Coated Carbon Nanotubes. *Nanoscale Research Letters*, **2015**, 10, 485	5	20
113	Investigating the Potential of Using Off-Axis 3D Woven Composites in Composite Joints Applications. *Applied Composite Materials*, **2017**, 24, 377-396	2	18
112	The effect of z-binding yarns on the electrical properties of 3D woven composites. *Composite Structures*, **2017**, 182, 606-616	5.3	17
111	Monotonic and cyclic responses of impact polypropylene and continuous glass fiber-reinforced impact polypropylene composites at different strain rates. *Polymer Testing*, **2016**, 51, 93-100	4.5	17
110	Improving adhesion of copper/epoxy joints by pulsed laser ablation. *International Journal of Adhesion and Adhesives*, **2016**, 64, 23-32	3.4	17
109	Hybrid 2D D modelling of GTA welding with filler wire addition. *International Journal of Heat and Mass Transfer*, **2012**, 55, 3946-3963	4.9	17
108	Leveraging a temperature-tunable, scale-like microstructure to produce multimodal, supersensitive sensors. *Nanoscale*, **2017**, 9, 7888-7894	7.7	16
107	Using Image Gradients to Improve Robustness of Digital Image Correlation to Non-uniform Illumination: Effects of Weighting and Normalization Choices. *Experimental Mechanics*, **2015**, 55, 963-979	2.6	16
106	Morphological evolution and internal strain mapping of pomelo peel using X-ray computed tomography and digital volume correlation. *Materials and Design*, **2018**, 137, 305-315	8.1	16
105	Some practical considerations in finite element-based digital image correlation. *Optics and Lasers in Engineering*, **2015**, 73, 22-32	4.6	15
104	Computational modeling of electrically conductive networks formed by graphene nanoplatelet arbon nanotube hybrid particles. *Modelling and Simulation in Materials Science and Engineering*, **2018**, 26, 035010	2	15
103	An experimental investigation of the effect of shear-induced diffuse damage on transverse cracking in carbon-fiber reinforced laminates. *Composite Structures*, **2013**, 106, 529-536	5.3	15
102	On controlling interfacial heterogeneity to trigger bridging in secondary bonded composite joints: An efficient strategy to introduce crack-arrest features. *Composites Science and Technology*, **2020**, 188, 107964	8.6	15
101	Computational Investigation of the Morphology, Efficiency, and Properties of Silver Nano Wires Networks in Transparent Conductive Film. *Scientific Reports*, **2018**, 8, 17494	4.9	15
100	Comparison of subset-based local and FE-based global digital image correlation: Theoretical error analysis and validation. *Optics and Lasers in Engineering*, **2016**, 82, 148-158	4.6	14
99	Laser-based surface preparation of composite laminates leads to improved electrodes for electrical measurements. *Applied Surface Science*, **2015**, 359, 388-397	6.7	14
98	Transverse Crack Detection in 3D Angle Interlock Glass Fibre Composites Using Acoustic Emission. *Materials*, **2016**, 9,	3.5	14
97	Post Processing Strategies for the Enhancement of Mechanical Properties of ENMs (Electrospun Nanofibrous Membranes): A Review. *Membranes*, **2021**, 11,	3.8	14

96	Combining the converse humidity/resistance response behaviors of rGO films for flexible logic devices. *Journal of Materials Chemistry C*, **2017**, 5, 3848-3854	7.1	13
95	Accurate 3D Shape, Displacement and Deformation Measurement Using a Smartphone. *Sensors*, **2019**, 19,	3.8	13
94	Preparation of water-soluble graphene nanoplatelets and highly conductive films. *Carbon*, **2017**, 124, 133-141	10.4	13
93	Toughness amplification in copper/epoxy joints through pulsed laser micro-machined interface heterogeneities. *Scientific Reports*, **2017**, 7, 16344	4.9	13
92	On micro-meso relations homogenizing electrical properties of transversely cracked laminated composites. *Composite Structures*, **2013**, 105, 66-74	5.3	13
91	The effect of bulk-resin CNT-enrichment on damage and plasticity in shear-loaded laminated composites. *Composites Science and Technology*, **2013**, 84, 23-30	8.6	13
90	Simulation of debonding in Al/epoxy T-peel joints using a potential-based cohesive zone model. *Procedia Engineering*, **2011**, 10, 1760-1765		13
89	A LabVIEW-based electrical bioimpedance spectroscopic data interpreter (LEBISDI) for biological tissue impedance analysis and equivalent circuit modelling. *Journal of Electrical Bioimpedance*, **2019**, 7, 35-54	1.5	13
88	Copolymer-enabled stretchable conductive polymer fibers. *Polymer*, **2019**, 177, 189-195	3.9	12
87	Enhancement of fracture toughness in secondary bonded CFRP using hybrid thermoplastic/thermoset bondline architecture. *Composites Science and Technology*, **2020**, 199, 108346	8.6	12
86	Emergent Protective Organogenesis in Date Palms: A Morpho-Devo-Dynamic Adaptive Strategy during Early Development. *Plant Cell*, **2019**, 31, 1751-1766	11.6	11
85	Development of Low-Cost DDGS-Based Activated Carbons and Their Applications in Environmental Remediation and High-Performance Electrodes for Supercapacitors. *Journal of Polymers and the Environment*, **2015**, 23, 595-605	4.5	11
84	Improving mode II fracture toughness of secondary bonded joints using laser patterning of adherends. *Composites Part A: Applied Science and Manufacturing*, **2020**, 134, 105892	8.4	11
83	Characterizing and modeling the pressure- and rate-dependent elastic-plastic-damage behavior of polypropylene-based polymers. *Polymer Testing*, **2018**, 68, 433-445	4.5	11
82	Volume digital image correlation to assess displacement field in compression loaded bread crumb under X-ray microtomography. *Innovative Food Science and Emerging Technologies*, **2014**, 25, 78-87	6.8	11
81	Thermal conductivity and stability of a three-phase blend of carbon nanotubes, conductive polymer, and silver nanoparticles incorporated into polycarbonate nanocomposites. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	11
80	Using constitutive equation gap method for identification of elastic material parameters: technical insights and illustrations. *International Journal on Interactive Design and Manufacturing*, **2011**, 5, 227-234	1.9	11
79	Magneto-dependent stress relaxation of magnetorheological gels. *Smart Materials and Structures*, **2017**, 26, 115005	3.4	10

78	A Sandwiched/Cracked Flexible Film for Multithermal Monitoring and Switching Devices. *ACS Applied Materials & Interfaces*, **2017**, 9, 32184-32191	9.5	10
77	Inkjet-printed Ti3C2Tx MXene electrodes for multimodal cutaneous biosensing. *JPhys Materials*, **2020**, 3, 044004	4.2	10
76	Laser-based interfacial patterning enables toughening of CFRP/epoxy joints through bridging of adhesive ligaments. *Composites Part A: Applied Science and Manufacturing*, **2020**, 139, 106094	8.4	10
75	Systematic errors in digital volume correlation due to the self-heating effect of a laboratory x-ray CT scanner. *Measurement Science and Technology*, **2017**, 28, 055402	2	9
74	An experimental approach that assesses in-situ micro-scale damage mechanisms and fracture toughness in thermoplastic laminates under out-of-plane loading. *Composite Structures*, **2019**, 207, 546-559	5.3	9
73	Strength-induced peridynamic modeling and simulation of fractures in brittle materials. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 374, 113558	5.7	9
72	"Self-Peel-Off" Transfer Produces Ultrathin Polyvinylidene-Fluoride-Based Flexible Nanodevices. *Advanced Science*, **2017**, 4, 1600370	13.6	8
71	Temperature sensing of micron scale polymer fibers using fiber Bragg gratings. *Measurement Science and Technology*, **2015**, 26, 085003	2	8
70	Aerospace engineering requirements in building with composites **2020**, 3-22		8
69	Peridynamics for analysis of failure in advanced composite materials **2015**, 331-350		8
68	Bio-inspired composite laminate design with improved out-of-plane strength and ductility. *Composites Part A: Applied Science and Manufacturing*, **2021**, 144, 106362	8.4	8
67	Real-time electrical impedance monitoring of carbon fiber-reinforced polymer laminates undergoing quasi-static indentation. *Composite Structures*, **2019**, 207, 255-263	5.3	8
66	Surface preparation strategies in secondary bonded thermoset-based composite materials: A review. *Composites Part A: Applied Science and Manufacturing*, **2021**, 147, 106443	8.4	8
65	A synergetic layered inorganic□organic hybrid film for conductive, flexible, and transparent electrodes. *Npj Flexible Electronics*, **2019**, 3,	10.7	7
64	A domain decomposition approach for full-field measurements based identification of local elastic parameters. *International Journal of Solids and Structures*, **2015**, 55, 44-57	3.1	7
63	The global equilibrium method and its hybrid implementation for identifying heterogeneous elastic material parameters. *Computers and Structures*, **2011**, 89, 656-667	4.5	7
62	A Hybrid Local/Nonlocal Continuum Mechanics Modeling and Simulation of Fracture in Brittle Materials. *CMES - Computer Modeling in Engineering and Sciences*, **2019**, 121, 399-423	1.7	7
61	How variability in interfacial properties results in tougher bonded composite joints by triggering bridging. *International Journal of Solids and Structures*, **2020**, 191-192, 87-98	3.1	7

60	Accurate kinematic measurement at interfaces between dissimilar materials using conforming finite-element-based digital image correlation. *Optics and Lasers in Engineering*, **2016**, 81, 103-112	4.6	7
59	In situ micro-scale high-speed imaging for evaluation of fracture propagation and fracture toughness of thermoplastic laminates subjected to impact. *Composite Structures*, **2019**, 210, 747-754	5.3	7
58	Influence of process-induced shrinkage and annealing on the thermomechanical behavior of glass fiber-reinforced polypropylene. *Composites Science and Technology*, **2019**, 170, 183-189	8.6	7
57	Toughening mechanisms in cost-effective carbon-epoxy laminates with thermoplastic veils: Mode-I and in-situ SEM fracture characterisation. *International Journal of Lightweight Materials and Manufacture*, **2021**, 4, 50-61	2.2	7
56	Modeling of systematic errors in stereo-digital image correlation due to camera self-heating. *Scientific Reports*, **2019**, 9, 6567	4.9	6
55	Low-Voltage-Driven Large-Amplitude Soft Actuators Based on Phase Transition. *Soft Robotics*, **2020**, 7, 688-699	9.2	6
54	A dynamic hybrid local/nonlocal continuum model for wave propagation. *Computational Mechanics*, **2021**, 67, 385-407	4	6
53	Enhanced mode II fracture toughness of secondary bonded joints using tailored sacrificial cracks inside the adhesive. *Composites Science and Technology*, **2021**, 204, 108605	8.6	6
52	Bio-inspired adhesive joint with improved interlaminar fracture toughness. *Composites Part A: Applied Science and Manufacturing*, **2021**, 149, 106530	8.4	6
51	Hysteresis in the relation between moisture uptake and electrical conductivity in neat epoxy. *Polymer Degradation and Stability*, **2017**, 141, 54-57	4.7	5
50	How the spatial correlation in adhesion properties influences the performance of secondary bonding of laminated composites. *International Journal of Solids and Structures*, **2020**, 196-197, 41-52	3.1	5
49	In-Situ Systematic Error Correction for Digital Volume Correlation Using a Reference Sample. *Experimental Mechanics*, **2018**, 58, 427-436	2.6	5
48	Fatigue crack growth in laser-treated adhesively bonded composite joints: An experimental examination. *International Journal of Adhesion and Adhesives*, **2021**, 105, 102784	3.4	5
47	Macroscopic Modeling of Water Uptake Behavior of PEDOT:PSS Films. *ACS Omega*, **2019**, 4, 21883-21890	3.9	5
46	On the anisotropic behavior of electrodes for electrical-based monitoring of CFRP laminated composites. *Polymer Composites*, **2019**, 40, 2061-2066	3	5
45	Toward Programmable Materials for Wearable Electronics: Electrical Welding Turns Sensors into Conductors. *Advanced Electronic Materials*, **2019**, 5, 1800273	6.4	5
44	A smartphone camera and built-in gyroscope based application for non-contact yet accurate off-axis structural displacement measurements. *Measurement: Journal of the International Measurement Confederation*, **2021**, 167, 108449	4.6	5
43	An experimental study on the influence of intralaminar damage on interlaminar delamination properties of laminated composites. *Composites Part A: Applied Science and Manufacturing*, **2020**, 131, 105783	8.4	4

42	Impact and post-impact response of lightweight CFRP/wood sandwich composites. *Composite Structures*, **2022**, 279, 114766	5.3	4
41	Achieving Super Sensitivity in Capacitive Strain Sensing by Electrode Fragmentation. *ACS Applied Materials & Interfaces*, **2021**, 13, 36062-36070	9.5	4
40	All-polymer based polymorph skin with controllable surface texture. *Smart Materials and Structures*, **2019**, 28, 075011	3.4	3
39	Model of Parameters Controlling Resistance of Pipeline Steels to Hydrogen-Induced Cracking. *Corrosion*, **2014**, 70, 87-94	1.8	3
38	Sodium Hypochlorite and Sodium Bromide Individualized and Stabilized Carbon Nanotubes in Water. *Langmuir*, **2017**, 33, 10868-10876	4	3
37	3D Imaging Using X-Ray Tomography and SEM Combined FIB to Study Non Isothermal Creep Damage of (111) Oriented Samples of Nickel Base Single Crystal Superalloy MC2. *Materials Science Forum*, **2012**, 706-709, 2400-2405	0.4	3
36	A computational mesodamage model for life prediction for laminates **2003**, 432-441		3
35	Towards a Micromechanics-Based Damage Mesomodel for CFRP Laminates under Thermomechanical Cyclic Loading. *Science and Engineering of Composite Materials*, **2005**, 12, 71-82	1.5	3
34	Une approche en dissipation pour l identification de propri s mat riaux h t rog nes partir de mesures de champs. *Materiaux Et Techniques*, **2012**, 100, 665-670	0.6	3
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7	Cassette-like peeling system for testing the adhesion of soft-to-rigid assemblies. *International Journal of Solids and Structures*, **2022**, 111751	3.1	0

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5	Field Strain Measurement on the Fiber-Epoxy Scale in CFRPs. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 309-316	0.3
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3	Integrated Global Digital Image Correlation for Interface Delamination Characterization. *Conference Proceedings of the Society for Experimental Mechanics*, **2014**, 27-32	0.3
2	Facile Preparation of Carbon-Nanotube-based 3-Dimensional Transparent Conducting Networks for Flexible Noncontact Sensing Device. *MRS Advances*, **2016**, 1, 3533-3538	0.7
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