

# Stefano Mariani

## List of Publications by Year in descending order

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Version: 2024-02-01

155  
papers

3,107  
citations

126907

33  
h-index

197818

49  
g-index

166  
all docs

166  
docs citations

166  
times ranked

1748  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Extended finite element method for quasi-brittle fracture. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 58, 103-126.   | 2.8 | 172       |
| 2  | Parameter identification in explicit structural dynamics: performance of the extended Kalman filter. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 3807-3835.                                 | 6.6 | 139       |
| 3  | Unscented Kalman filtering for nonlinear structural dynamics. <i>Nonlinear Dynamics</i> , 2007, 49, 131-150.  | 5.2 | 138       |
| 4  | An extended FE strategy for transition from continuum damage to mode I cohesive crack propagation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2007, 31, 213-238.                 | 3.3 | 109       |
| 5  | An unsupervised learning approach by novel damage indices in structural health monitoring for damage localization and quantification. <i>Structural Health Monitoring</i> , 2018, 17, 325-345.                            | 7.5 | 100       |
| 6  | Big Data Analytics and Structural Health Monitoring: A Statistical Pattern Recognition-Based Approach. <i>Sensors</i> , 2020, 20, 2328.   | 3.8 | 91        |
| 7  | Impact induced composite delamination: state and parameter identification via joint and dual extended Kalman filters. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 5242-5272.                | 6.6 | 67        |
| 8  | Extended finite element simulation of quasi-brittle fracture in functionally graded materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 4013-4026.                                       | 6.6 | 65        |
| 9  | Data-driven damage diagnosis under environmental and operational variability by novel statistical pattern recognition methods. <i>Structural Health Monitoring</i> , 2019, 18, 1416-1443.                                 | 7.5 | 64        |
| 10 | Multi-scale Analysis of MEMS Sensors Subject to Drop Impacts. <i>Sensors</i> , 2007, 7, 1817-1833.  | 3.8 | 63        |
| 11 | Investigation of computational and accuracy issues in POD-based reduced order modeling of dynamic structural systems. <i>Engineering Structures</i> , 2013, 54, 150-167.  | 5.3 | 58        |
| 12 | Model Order Reduction and domain decomposition strategies for the solution of the dynamic elastic-plastic structural problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 290, 127-155.          | 6.6 | 55        |
| 13 | Damage Detection in Flexible Plates through Reduced-Order Modeling and Hybrid Particle-Kalman Filtering. <i>Sensors</i> , 2016, 16, 2.  | 3.8 | 54        |
| 14 | Early damage assessment in large-scale structures by innovative statistical pattern recognition methods based on time series modeling and novelty detection. <i>Advances in Engineering Software</i> , 2020, 150, 102923. | 3.8 | 54        |
| 15 | Fast unsupervised learning methods for structural health monitoring with large vibration data from dense sensor networks. <i>Structural Health Monitoring</i> , 2020, 19, 1685-1710.                                      | 7.5 | 49        |
| 16 | Modeling Impact-induced Failure of Polysilicon MEMS: A Multi-scale Approach. <i>Sensors</i> , 2009, 9, 556-567.   | 3.8 | 47        |
| 17 | Online damage detection in structural systems via dynamic inverse analysis: A recursive Bayesian approach. <i>Engineering Structures</i> , 2018, 159, 28-45.  | 5.3 | 46        |
| 18 | Numerical modeling of rate-dependent debonding processes in composites. <i>Composite Structures</i> , 2003, 61, 39-50.  | 5.8 | 45        |

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|----|---|-----|-----------|
| 19 | Numerical analysis of rate-dependent dynamic composite delamination. <i>Composites Science and Technology</i> , 2006, 66, 766-775.  | 7.8 | 45        |
| 20 | Multi-scale analysis of polysilicon MEMS sensors subject to accidental drops: Effect of packaging. <i>Microelectronics Reliability</i> , 2009, 49, 340-349.   | 1.7 | 45        |
| 21 | Strengthening and rehabilitation of exterior RC beam-column joints using carbon-FRP jacketing. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 5067-5083.  | 3.1 | 44        |
| 22 | Structural health monitoring by a new hybrid feature extraction and dynamic time warping methods under ambient vibration and non-stationary signals. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 134, 548-568. | 5.0 | 41        |
| 23 | Title is missing!. <i>International Journal of Fracture</i> , 2000, 104, 349-373.   | 2.2 | 40        |
| 24 | Parameter identification of a time-dependent elastic-damage interface model for the simulation of debonding in composites. <i>Composites Science and Technology</i> , 2001, 61, 191-203.  | 7.8 | 40        |
| 25 | A three-scale FE approach to reliability analysis of MEMS sensors subject to impacts. <i>Meccanica</i> , 2008, 43, 469-483.   | 2.0 | 40        |
| 26 | Cost-Benefit Optimization of Structural Health Monitoring Sensor Networks. <i>Sensors</i> , 2018, 18, 2174.   | 3.8 | 40        |
| 27 | Polysilicon MEMS accelerometers exposed to shocks: numerical-experimental investigation. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 035023.  | 2.6 | 39        |
| 28 | Parallelized sigma-point Kalman filtering for structural dynamics. <i>Computers and Structures</i> , 2012, 92-93, 193-205.  | 4.4 | 39        |
| 29 | Monte carlo simulation of micro-cracking in polysilicon MEMS exposed to shocks. <i>International Journal of Fracture</i> , 2011, 167, 83-101.   | 2.2 | 38        |
| 30 | Dual estimation of partially observed nonlinear structural systems: A particle filter approach. <i>Mechanics Research Communications</i> , 2012, 46, 54-61.   | 1.8 | 38        |
| 31 | Damage localization under ambient excitations and non-stationary vibration signals by a new hybrid algorithm for feature extraction and multivariate distance correlation methods. <i>Structural Health Monitoring</i> , 2019, 18, 347-375.           | 7.5 | 38        |
| 32 | Structural damage detection by a new iterative regularization method and an improved sensitivity function. <i>Journal of Sound and Vibration</i> , 2017, 399, 285-307.  | 3.9 | 36        |
| 33 | Simulation of damage in composites by means of interface models: parameter identification. <i>Composites Science and Technology</i> , 2001, 61, 2299-2315.  | 7.8 | 35        |
| 34 | OVERALL ELASTIC PROPERTIES OF POLYSILICON FILMS: A STATISTICAL INVESTIGATION OF THE EFFECTS OF POLYCRYSTAL MORPHOLOGY. <i>International Journal for Multiscale Computational Engineering</i> , 2011, 9, 327-346.                                      | 1.2 | 34        |
| 35 | Optimization of sensor placement to detect damage in flexible plates. <i>Engineering Optimization</i> , 2013, 45, 659-676.  | 2.6 | 32        |
| 36 | Structural Health Monitoring Sensor Network Optimization through Bayesian Experimental Design. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2018, 4, .  | 1.7 | 32        |

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|----|---|-----|-----------|
| 37 | Stochastic system identification via particle and sigma-point Kalman filtering. <i>Scientia Iranica</i> , 2012, 19, 982-991.  | 0.4 | 31        |
| 38 | Online damage detection via a synergy of proper orthogonal decomposition and recursive Bayesian filters. <i>Nonlinear Dynamics</i> , 2017, 89, 1489-1511.                                   | 5.2 | 30        |
| 39 | Fully convolutional networks for structural health monitoring through multivariate time series classification. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2020, 7, . | 1.7 | 30        |
| 40 | Two-Scale Simulation of Drop-Induced Failure of Polysilicon MEMS Sensors. <i>Sensors</i> , 2011, 11, 4972-4989.   | 3.8 | 29        |
| 41 | Online structural health monitoring by model order reduction and deep learning algorithms. <i>Computers and Structures</i> , 2021, 255, 106604.   | 4.4 | 29        |
| 42 | Non-parametric empirical machine learning for short-term and long-term structural health monitoring. <i>Structural Health Monitoring</i> , 2022, 21, 2700-2718.                             | 7.5 | 29        |
| 43 | Domain decomposition and model order reduction methods applied to the simulation of multi-physics problems in MEMS. <i>Computers and Structures</i> , 2013, 122, 113-127.                   | 4.4 | 27        |
| 44 | Mechanical Characterization of Polysilicon MEMS: A Hybrid TMCMC/POD-Kriging Approach. <i>Sensors</i> , 2018, 18, 1243.  | 3.8 | 25        |
| 45 | MEMS-based surface mounted health monitoring system for composite laminates. <i>Microelectronics Journal</i> , 2013, 44, 598-605.   | 2.0 | 23        |
| 46 | Simplified modelling of continuous buried pipelines subject to earthquake fault rupture. <i>Earthquake and Structures</i> , 2010, 1, 253-267.   | 1.0 | 23        |
| 47 | Micromechanical Characterization of Polysilicon Films through On-Chip Tests. <i>Sensors</i> , 2016, 16, 1191.   | 3.8 | 22        |
| 48 | Mechanical characterization of Ti-5Al-2.5Sn ELI alloy at cryogenic and room temperatures. <i>International Journal of Fracture</i> , 2007, 146, 61-77.                                      | 2.2 | 21        |
| 49 | SHM under varying environmental conditions: an approach based on model order reduction and deep learning. <i>Computers and Structures</i> , 2022, 266, 106790.                              | 4.4 | 21        |
| 50 | Simplified modeling of beam vibrations induced by a moving mass by regression analysis. <i>Acta Mechanica</i> , 2015, 226, 2147-2157.   | 2.1 | 20        |
| 51 | Uncertainty Quantification of Microstructure-Governed Properties of Polysilicon MEMS. <i>Micromachines</i> , 2017, 8, 248.  | 2.9 | 20        |
| 52 | Geometry optimization of a Lorentz force, resonating MEMS magnetometer. <i>Microelectronics Reliability</i> , 2014, 54, 1192-1199.  | 1.7 | 18        |
| 53 | An Efficient Earth Magnetic Field MEMS Sensor: Modeling, Experimental Results, and Optimization. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 887-895.                      | 2.5 | 18        |
| 54 | Overall elastic domain of thin polysilicon films. <i>Computational Materials Science</i> , 2011, 50, 2993-3004.   | 3.0 | 17        |

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|----|--|-----|-----------|
| 55 | Damage detection in structural systems by improved sensitivity of modal strain energy and Tikhonov regularization method. <i>International Journal of Dynamics and Control</i> , 2014, 2, 509-520.               | 2.5 | 17        |
| 56 | An iterative order determination method for time-series modeling in structural health monitoring. <i>Advances in Structural Engineering</i> , 2018, 21, 300-314.   | 2.4 | 17        |
| 57 | Health Monitoring of Large-Scale Civil Structures: An Approach Based on Data Partitioning and Classical Multidimensional Scaling. <i>Sensors</i> , 2021, 21, 1646.   | 3.8 | 17        |
| 58 | Structural health monitoring of civil structures: A diagnostic framework powered by deep metric learning. <i>Computers and Structures</i> , 2022, 271, 106858.   | 4.4 | 17        |
| 59 | Numerical modeling of the interaction of pressurized large diameter gas buried pipelines with normal fault ruptures. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 101, 105-115.                       | 3.8 | 16        |
| 60 | Modeling of shock absorption in athletics track surfaces. <i>Sports Engineering</i> , 2015, 18, 1-10.  | 1.1 | 15        |
| 61 | AN OPTIMAL SENSOR PLACEMENT METHOD FOR SHM BASED ON BAYESIAN EXPERIMENTAL DESIGN AND POLYNOMIAL CHAOS EXPANSION. , 2016, , .   |     | 15        |
| 62 | Identification of a constitutive model for the simulation of time-dependent interlaminar debonding processes in composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 1861-1894. | 6.6 | 14        |
| 63 | Physically-Based Reduced Order Modelling of a Uni-Axial Polysilicon MEMS Accelerometer. <i>Sensors</i> , 2012, 12, 13985-14003.  | 3.8 | 14        |
| 64 | Optimal design of sensor networks for damage detection. <i>Procedia Engineering</i> , 2017, 199, 1864-1869.  | 1.2 | 14        |
| 65 | Damage Detection in Largely Unobserved Structures under Varying Environmental Conditions: An AutoRegressive Spectrum and Multi-Level Machine Learning Methodology. <i>Sensors</i> , 2022, 22, 1400.              | 3.8 | 14        |
| 66 | Towards Safer Helmets: Characterisation, Modelling and Monitoring. <i>Procedia Engineering</i> , 2016, 147, 478-483.   | 1.2 | 13        |
| 67 | Seismic control of buildings with active tuned mass damper through interval type-2 fuzzy logic controller including soil-structure interaction. <i>Asian Journal of Civil Engineering</i> , 2018, 19, 177-188.   | 1.6 | 13        |
| 68 | Anisotropic behaviour of porous, ductile media. <i>International Journal of Solids and Structures</i> , 2001, 38, 2427-2451.   | 2.7 | 12        |
| 69 | Sensor deployment over damage-containing plates: A topology optimization approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 1105-1122.  | 2.5 | 12        |
| 70 | Investigation of the Effectiveness and Robustness of an MEMS-Based Structural Health Monitoring System for Composite Laminates. <i>IEEE Sensors Journal</i> , 2014, 14, 2208-2215.                               | 4.7 | 12        |
| 71 | Effect of Imperfections Due to Material Heterogeneity on the Offset of Polysilicon MEMS Structures. <i>Sensors</i> , 2019, 19, 3256.   | 3.8 | 12        |
| 72 | Stochastic Effects on the Dynamics of the Resonant Structure of a Lorentz Force MEMS Magnetometer. <i>Actuators</i> , 2019, 8, 36.   | 2.3 | 12        |

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|----|---|-----|-----------|
| 73 | Structural Health Monitoring for Condition Assessment Using Efficient Supervised Learning Techniques. Proceedings (mdpi), 2020, 42, 17.   | 0.2 | 12        |
| 74 | An Autoencoder-Based Deep Learning Approach for Load Identification in Structural Dynamics. Sensors, 2021, 21, 4207.  | 3.8 | 12        |
| 75 | Combined effects of temperature and humidity on the mechanical properties of polyurethane foams. Journal of Rheology, 2020, 64, 161-176.  | 2.6 | 11        |
| 76 | Condition Assessment of Civil Structures for Structural Health Monitoring Using Supervised Learning Classification Methods. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 51-66. | 1.9 | 11        |
| 77 | On-Chip Testing: A Miniaturized Lab to Assess Sub-Micron Uncertainties in Polysilicon MEMS. Micro and Nanosystems, 2018, 10, 84-93.   | 0.6 | 10        |
| 78 | Damage detection by updating structural models based on linear objective functions. Journal of Civil Structural Health Monitoring, 2014, 4, 165-176.  | 3.9 | 9         |
| 79 | A one-dimensional variational formulation for quasibrittle fracture. Journal of Mechanics of Materials and Structures, 2006, 1, 1323-1343.  | 0.6 | 8         |
| 80 | Experimental assessment of ductile damage in P91 steel at high temperature. International Journal of Damage Mechanics, 2014, 23, 567-587.   | 4.2 | 8         |
| 81 | Statistical Investigation of the Mechanical and Geometrical Properties of Polysilicon Films through On-Chip Tests. Micromachines, 2018, 9, 53.  | 2.9 | 8         |
| 82 | Analysis of ductile fracture in damaged pipelines by a geometric parameter method. Engineering Structures, 1999, 21, 924-936.   | 5.3 | 7         |
| 83 | A Finite Element Flux-Corrected Transport Method for Wave Propagation in Heterogeneous Solids. Algorithms, 2009, 2, 1-18.   | 2.1 | 7         |
| 84 | Coupled domain decompositionâ€”proper orthogonal decomposition methods for the simulation of quasi-brittle fracture processes. Advanced Modeling and Simulation in Engineering Sciences, 2016, 3, .                         | 1.7 | 7         |
| 85 | Optimal Sensor Placement through Bayesian Experimental Design: Effect of Measurement Noise and Number of Sensors. Proceedings (mdpi), 2016, 1, .  | 0.2 | 7         |
| 86 | Applying a new systematic fuzzy FMEA technique for risk management in light steel frame systems. Journal of Asian Architecture and Building Engineering, 2022, 21, 2481-2502.   | 2.0 | 7         |
| 87 | Failure Assessment of Layered Composites Subject to Impact Loadings: a Finite Element, Sigma-Point Kalman Filter Approach. Algorithms, 2009, 2, 808-827.  | 2.1 | 6         |
| 88 | Recent Advances in Computational Methods for Microsystems. Advanced Materials Research, 2013, 745, 13-25.   | 0.3 | 6         |
| 89 | Microsystems and Mechanics. Procedia IUTAM, 2014, 10, 138-160.  | 1.2 | 6         |
| 90 | Cost-Benefit Optimization of Sensor Networks for SHM Applications. Proceedings (mdpi), 2018, 2, 132.  | 0.2 | 6         |

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|-----|---|-----|-----------|
| 91  | Fluid damping in compliant, comb-actuated torsional micromirrors. , 2014, , .   |     | 5         |
| 92  | Multi-Scale Modeling of Shock-Induced Failure of Polysilicon MEMS. , 2007, , .  |     | 4         |
| 93  | Smart sensing of damage in flexible plates through MEMS. International Journal of Mechanisms and Robotic Systems, 2014, 2, 67.  | 0.1 | 4         |
| 94  | Modelling the cushioning properties of athletic tracks. Sports Engineering, 2018, 21, 453-463.  | 1.1 | 4         |
| 95  | Boundary characteristic orthogonal polynomials method in the vibration analysis of multi-span plates acting upon a moving mass. Heliyon, 2019, 5, e01919.                                     | 3.2 | 4         |
| 96  | Assessment of the shock adsorption properties of bike helmets: a numerical/experimental approach. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 169-181.             | 1.6 | 4         |
| 97  | Mechanical Characterization of Polysilicon MEMS Devices: a Stochastic, Deep Learning-based Approach. , 2020, , .  |     | 4         |
| 98  | Structural Integrity Assessment of a Pipeline Subjected to an Underwater Explosion. , 2011, , .   |     | 3         |
| 99  | A multi-scale approach to wafer to wafer metallic bonding in MEMS. , 2013, , .  |     | 3         |
| 100 | Optimal design of a resonating MEMS magnetometer: A multi-physics approach. , 2013, , .   |     | 3         |
| 101 | An efficient earth magnetic field MEMS sensor: Modelling and experimental results. , 2014, , .  |     | 3         |
| 102 | A Multiscale Approach to the Smart Deployment of Micro-Sensors over Lightweight Structures. Sensors, 2017, 17, 1632.  | 3.8 | 3         |
| 103 | Estimation of Air Damping in Out-of-Plane Comb-Drive Actuators. Micromachines, 2019, 10, 263.   | 2.9 | 3         |
| 104 | Identification of strength and toughness of quasi-brittle materials from spall tests: a Sigma-point Kalman filter approach. Inverse Problems in Science and Engineering, 2019, 27, 1318-1346. | 1.2 | 3         |
| 105 | A Hybrid Structural Health Monitoring Approach Based on Reduced-Order Modelling and Deep Learning. Proceedings (mdpi), 2020, 42, 67.  | 0.2 | 3         |
| 106 | Stochastic Mechanical Characterization of Polysilicon MEMS: A Deep Learning Approach. Proceedings (mdpi), 2019, 42, .   | 0.2 | 3         |
| 107 | Machine Learning-Based Prediction of the Seismic Bearing Capacity of a Shallow Strip Footing over a Void in Heterogeneous Soils. Algorithms, 2021, 14, 288.                                   | 2.1 | 3         |
| 108 | Thermal, Mechanical and MultiPhysics Simulation and Experiments in Microelectronics and Microsystems (EUROSIME'2006). Sensor Letters, 2008, 6, 1-2.   | 0.4 | 3         |

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|-----|---|-----|-----------|
| 109 | Hybrid Model-Based and Data-Driven Solution for Uncertainty Quantification at the Microscale. <i>Micro and Nanosystems</i> , 2022, 14, 281-286.   | 0.6 | 3         |
| 110 | A Deep Neural Network, Multi-fidelity Surrogate Model Approach for Bayesian Model Updating in SHM. <i>Lecture Notes in Civil Engineering</i> , 2023, , 1076-1086.   | 0.4 | 3         |
| 111 | A multiscale-stochastic finite element approach to shock-induced polysilicon MEMS failure. , 2009, , .  |     | 2         |
| 112 | Towards real-time health monitoring of structural systems via recursive Bayesian filtering and reduced order modelling. <i>International Journal of Sustainable Materials and Structural Systems</i> , 2015, 2, 27.                     | 0.1 | 2         |
| 113 | A 3D Numerical Model for the Optimization of Running Tracks Performance. <i>Procedia Engineering</i> , 2016, 147, 854-859.  | 1.2 | 2         |
| 114 | Assessment of Micromechanically-Induced Uncertainties in the Electromechanical Response of MEMS Devices. <i>Proceedings (mdpi)</i> , 2016, 1, .   | 0.2 | 2         |
| 115 | A Stochastic Model to Describe the Scattering in the Response of Polysilicon MEMS. <i>Engineering Proceedings</i> , 2020, 2, 95.  | 0.4 | 2         |
| 116 | Preliminary Valorization of Climatic Conditions Effects on Curing of Air Lime-Based Mortars for Restorative Applications in the Pasargadae and Persepolis World Heritage Sites. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7925. | 2.5 | 2         |
| 117 | Experimental-Numerical Assessment of Impact-Induced Damage in Cross-Ply Laminates. <i>Advanced Structured Materials</i> , 2010, , 493-504.  | 0.5 | 2         |
| 118 | Health Monitoring of Flexible Structures Via Surface-mounted Microsensors: Network Optimization and Damage Detection. , 2020, , .   |     | 2         |
| 119 | Two-Scale Deep Learning Model for Polysilicon MEMS Sensors. , 2021, 2, .  |     | 2         |
| 120 | Health Monitoring of Civil Structures: A MCMC Approach Based on a Multi-Fidelity Deep Neural Network Surrogate. , 2021, 2, .  |     | 2         |
| 121 | Mechanics of Microsystems: A Recent Journey in a Fascinating Branch of Mechanics. , 2022, , 419-435.  |     | 2         |
| 122 | Two-scale vs three-scale FE analyses of shock-induced failure in polysilicon MEMS. , 2010, , .  |     | 1         |
| 123 | Damage localization in shear buildings by direct updating of physical properties. <i>International Journal of Advanced Structural Engineering</i> , 2014, 6, 1-12.  | 1.3 | 1         |
| 124 | Online Damage Detection in Plates via Vibration Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015, , 85-91.  | 0.5 | 1         |
| 125 | A Multiscale Approach to the Smart Deployment of Micro-Sensors over Flexible Plates. <i>Proceedings (mdpi)</i> , 2016, 1, .   | 0.2 | 1         |
| 126 | Origami-Inspired Smart Building Skin. <i>Proceedings (mdpi)</i> , 2017, 1, 42.  | 0.2 | 1         |



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|-----|--|-----|-----------|
| 127 | On the relationship between force reduction, loading rate and energy absorption in athletics tracks. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2018, 232, 71-78. | 0.7 | 1         |
| 128 | Optimal Placement of MEMS Sensors for Damage Detection in Composite Plates. Micro and Nanosystems, 2018, 10, 65-74.  | 0.6 | 1         |
| 129 | SHM and Efficient Strategies for Reduced-Order Modeling. Engineering Proceedings, 2020, 2, 98.   | 0.4 | 1         |
| 130 | Unscented Kalman Filter Empowered by Bayesian Model Evidence for System Identification in Structural Dynamics. , 2021, 2, .  |     | 1         |
| 131 | The Effects of MTMD and HBI on the Performance of a Benchmark Building Against Near-Field Earthquakes Using Fuzzy Logic. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 0, , 1.                      | 1.9 | 1         |
| 132 | Numerical-experimental comparison of low-g and high-g tests on a polysilicon MEMS accelerometer. , 2008, , .   |     | 0         |
| 133 | Effect of Microstructure Evolution on the Overall Response of Porous-Plastic Solids. Materials, 2010, 3, 1031-1048.  | 2.9 | 0         |
| 134 | A three-scale approach to the numerical simulation of metallic bonding for MEMS packaging. Microelectronics Reliability, 2014, 54, 2039-2043.  | 1.7 | 0         |
| 135 | Uncertainty quantification in polysilicon MEMS through on-chip testing and reduced-order modelling. , 2017, , .  |     | 0         |
| 136 | Health Monitoring of Composite Structures via MEMS Sensor Networks: Numerical and Experimental Results. Proceedings (mdpi), 2017, 1, 749.  | 0.2 | 0         |
| 137 | Foreword: Proceedings of the 3rd International Electronic Conference on Sensors and Applications. Proceedings (mdpi), 2017, 1, .   | 0.2 | 0         |
| 138 | Preface: Proceedings of the 4th International Electronic Conference on Sensors and Applications. Proceedings (mdpi), 2018, 2, .  | 0.2 | 0         |
| 139 | Preface: Proceedings of the 5th International Electronic Conference on Sensors and Applications. Proceedings (mdpi), 2019, 4, 52.  | 0.2 | 0         |
| 140 | Polysilicon MEMS Sensors: Sensitivity to Sub-Micron Imperfections. Proceedings (mdpi), 2018, 4, .  | 0.2 | 0         |
| 141 | A Time Series Autoencoder for Load Identification via Dimensionality Reduction of Sensor Recordings. , 0, , .  |     | 0         |
| 142 | Preface: Proceedings of the 6th International Electronic Conference on Sensors and Applications. Proceedings (mdpi), 2020, 42, .   | 0.2 | 0         |
| 143 | A Deep Learning Approach for Polycrystalline Microstructure-Statistical Property Prediction. Lecture Notes in Computer Science, 2021, , 549-561.   | 1.3 | 0         |
| 144 | Early Damage Detection for Partially Observed Structures with an Autoregressive Spectrum and Distance-Based Methodology. Lecture Notes in Civil Engineering, 2021, , 427-437.  | 0.4 | 0         |

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|-----|--|-----|-----------|
| 145 | Preface: Proceedings of the 7th International Electronic Conference on Sensors and Applications. Engineering Proceedings, 2020, 2, 97. | 0.4 | 0         |
| 146 | On-Chip Assessment of Scattering in the Response of Si-Based Microdevices. , 0, , .  |     | 0         |
| 147 | A Deep Learning-Based Approach to Uncertainty Quantification for Polysilicon MEMS. Engineering Proceedings, 2021, 4, 27.               | 0.4 | 0         |
| 148 | Piezoelectric Ultrasonic Micromotor. , 0, , .  |     | 0         |
| 149 | A Piezo-MEMS Device for Fatigue Testing of Thin Metal Layers. , 0, , .   |     | 0         |
| 150 | Time-Fluid Field-Based Coordination. Lecture Notes in Computer Science, 2020, , 193-210.   | 1.3 | 0         |
| 151 | Extended Fe Simulations of Crack Growth in Layered and Functionally Graded Materials. , 2006, , 931-932.                               |     | 0         |
| 152 | Impact Induced Composite Delamination: State and Parameter Identification via Unscented Kalman Filter. , 2006, , 1251-1252.            |     | 0         |
| 153 | Preface: Proceedings of the 8th International Electronic Conference on Sensors and Applications. Engineering Proceedings, 2022, 10, .  | 0.4 | 0         |
| 154 | Learning the Link between Architectural Form and Structural Efficiency: A Supervised Machine Learning Approach. , 2021, 2, .           |     | 0         |
| 155 | A Generative Adversarial Network Based Autoencoder for Structural Health Monitoring. , 2021, 2, .                                      |     | 0         |