

# Stefano Mariani

## List of Publications by Year in descending order

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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	A Deep Neural Network, Multi-fidelity Surrogate Model Approach for Bayesian Model Updating in SHM. Lecture Notes in Civil Engineering, 2023, , 1076-1086.	0.4	3
2	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
3	Preface: Proceedings of the 8th International Electronic Conference on Sensors and Applications. Engineering Proceedings, 2022, 10, .	0.4	0
4	Damage Detection in Largely Unobserved Structures under Varying Environmental Conditions: An Autoregressive Spectrum and Multi-Level Machine Learning Methodology. Sensors, 2022, 22, 1400.	3.8	14
5	Non-parametric empirical machine learning for short-term and long-term structural health monitoring. Structural Health Monitoring, 2022, 21, 2700-2718.	7.5	29
6	Hybrid Model-Based and Data-Driven Solution for Uncertainty Quantification at the Microscale. Micro and Nanosystems, 2022, 14, 281-286.	0.6	3
7	SHM under varying environmental conditions: an approach based on model order reduction and deep learning. Computers and Structures, 2022, 266, 106790.	4.4	21
8	Mechanics of Microsystems: A Recent Journey in a Fascinating Branch of Mechanics. , 2022, , 419-435.		2
9	Structural health monitoring of civil structures: A diagnostic framework powered by deep metric learning. Computers and Structures, 2022, 271, 106858.	4.4	17
10	A Deep Learning Approach for Polycrystalline Microstructure-Statistical Property Prediction. Lecture Notes in Computer Science, 2021, , 549-561.	1.3	0
11	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
12	Health Monitoring of Large-Scale Civil Structures: An Approach Based on Data Partitioning and Classical Multidimensional Scaling. Sensors, 2021, 21, 1646.	3.8	17
13	A Deep Learning-Based Approach to Uncertainty Quantification for Polysilicon MEMS. Engineering Proceedings, 2021, 4, 27.	0.4	0
14	An Autoencoder-Based Deep Learning Approach for Load Identification in Structural Dynamics. Sensors, 2021, 21, 4207.	3.8	12
15	Preliminary Valorization of Climatic Conditions Effects on Curing of Air Lime-Based Mortars for Restorative Applications in the Pasargadae and Persepolis World Heritage Sites. Applied Sciences (Switzerland), 2021, 11, 7925.	2.5	2
16	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
17	Online structural health monitoring by model order reduction and deep learning algorithms. Computers and Structures, 2021, 255, 106604.	4.4	29
18	Learning the Link between Architectural Form and Structural Efficiency: A Supervised Machine Learning Approach. , 2021, 2, .		0

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19	A Generative Adversarial Network Based Autoencoder for Structural Health Monitoring. , 2021, 2, .		0
20	Two-Scale Deep Learning Model for Polysilicon MEMS Sensors. , 2021, 2, .		2
21	Health Monitoring of Civil Structures: A MCMC Approach Based on a Multi-Fidelity Deep Neural Network Surrogate. , 2021, 2, .		2
22	Unscented Kalman Filter Empowered by Bayesian Model Evidence for System Identification in Structural Dynamics. , 2021, 2, .		1
23	Combined effects of temperature and humidity on the mechanical properties of polyurethane foams. Journal of Rheology, 2020, 64, 161-176.	2.6	11
24	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
25	Fast unsupervised learning methods for structural health monitoring with large vibration data from dense sensor networks. Structural Health Monitoring, 2020, 19, 1685-1710.	7.5	49
26	Early damage assessment in large-scale structures by innovative statistical pattern recognition methods based on time series modeling and novelty detection. Advances in Engineering Software, 2020, 150, 102923.	3.8	54
27	Mechanical Characterization of Polysilicon MEMS Devices: a Stochastic, Deep Learning-based Approach. , 2020, , .		4
28	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
29	A Hybrid Structural Health Monitoring Approach Based on Reduced-Order Modelling and Deep Learning. Proceedings (mdpi), 2020, 42, 67.	0.2	3
30	Preface: Proceedings of the 6th International Electronic Conference on Sensors and Applications. Proceedings (mdpi), 2020, 42, .	0.2	0
31	Structural Health Monitoring for Condition Assessment Using Efficient Supervised Learning Techniques. Proceedings (mdpi), 2020, 42, 17.	0.2	12
32	Big Data Analytics and Structural Health Monitoring: A Statistical Pattern Recognition-Based Approach. Sensors, 2020, 20, 2328.	3.8	91
33	A Stochastic Model to Describe the Scattering in the Response of Polysilicon MEMS. Engineering Proceedings, 2020, 2, 95.	0.4	2
34	Preface: Proceedings of the 7th International Electronic Conference on Sensors and Applications. Engineering Proceedings, 2020, 2, 97.	0.4	0
35	SHM and Efficient Strategies for Reduced-Order Modeling. Engineering Proceedings, 2020, 2, 98.	0.4	1
36	Fully convolutional networks for structural health monitoring through multivariate time series classification. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	30

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37	Time-Fluid Field-Based Coordination. Lecture Notes in Computer Science, 2020, , 193-210.	1.3	0
38	Health Monitoring of Flexible Structures Via Surface-mounted Microsensors: Network Optimization and Damage Detection. , 2020, , .		2
39	Effect of Imperfections Due to Material Heterogeneity on the Offset of Polysilicon MEMS Structures. Sensors, 2019, 19, 3256.	3.8	12
40	Stochastic Effects on the Dynamics of the Resonant Structure of a Lorentz Force MEMS Magnetometer. Actuators, 2019, 8, 36.	2.3	12
41	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
42	Estimation of Air Damping in Out-of-Plane Comb-Drive Actuators. Micromachines, 2019, 10, 263.	2.9	3
43	Preface: Proceedings of the 5th International Electronic Conference on Sensors and Applications. Proceedings (mdpi), 2019, 4, 52.	0.2	0
44	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
45	Structural health monitoring by a new hybrid feature extraction and dynamic time warping methods under ambient vibration and non-stationary signals. Measurement: Journal of the International Measurement Confederation, 2019, 134, 548-568.	5.0	41
46	Data-driven damage diagnosis under environmental and operational variability by novel statistical pattern recognition methods. Structural Health Monitoring, 2019, 18, 1416-1443.	7.5	64
47	Damage localization under ambient excitations and non-stationary vibration signals by a new hybrid algorithm for feature extraction and multivariate distance correlation methods. Structural Health Monitoring, 2019, 18, 347-375.	7.5	38
48	Stochastic Mechanical Characterization of Polysilicon MEMS: A Deep Learning Approach. Proceedings (mdpi), 2019, 42, .	0.2	3
49	Structural Health Monitoring Sensor Network Optimization through Bayesian Experimental Design. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2018, 4, .	1.7	32
50	Seismic control of buildings with active tuned mass damper through interval type-2 fuzzy logic controller including soil-structure interaction. Asian Journal of Civil Engineering, 2018, 19, 177-188.	1.6	13
51	Online damage detection in structural systems via dynamic inverse analysis: A recursive Bayesian approach. Engineering Structures, 2018, 159, 28-45.	5.3	46
52	An unsupervised learning approach by novel damage indices in structural health monitoring for damage localization and quantification. Structural Health Monitoring, 2018, 17, 325-345.	7.5	100
53	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
54	An iterative order determination method for time-series modeling in structural health monitoring. Advances in Structural Engineering, 2018, 21, 300-314.	2.4	17

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55	On-Chip Testing: A Miniaturized Lab to Assess Sub-Micron Uncertainties in Polysilicon MEMS. <i>Micro and Nanosystems</i> , 2018, 10, 84-93.	0.6	10
56	Modelling the cushioning properties of athletic tracks. <i>Sports Engineering</i> , 2018, 21, 453-463.	1.1	4
57	Optimal Placement of MEMS Sensors for Damage Detection in Composite Plates. <i>Micro and Nanosystems</i> , 2018, 10, 65-74.	0.6	1
58	Statistical Investigation of the Mechanical and Geometrical Properties of Polysilicon Films through On-Chip Tests. <i>Micromachines</i> , 2018, 9, 53.	2.9	8
59	Cost-Benefit Optimization of Structural Health Monitoring Sensor Networks. <i>Sensors</i> , 2018, 18, 2174.	3.8	40
60	Cost-Benefit Optimization of Sensor Networks for SHM Applications. <i>Proceedings (mdpi)</i> , 2018, 2, 132.	0.2	6
61	Preface: Proceedings of the 4th International Electronic Conference on Sensors and Applications. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0
62	Mechanical Characterization of Polysilicon MEMS: A Hybrid TMCMC/POD-Kriging Approach. <i>Sensors</i> , 2018, 18, 1243.	3.8	25
63	Polysilicon MEMS Sensors: Sensitivity to Sub-Micron Imperfections. <i>Proceedings (mdpi)</i> , 2018, 4, .	0.2	0
64	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
65	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
66	Uncertainty quantification in polysilicon MEMS through on-chip testing and reduced-order modelling. , 2017, , .		0
67	Optimal design of sensor networks for damage detection. <i>Procedia Engineering</i> , 2017, 199, 1864-1869.	1.2	14
68	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
69	Health Monitoring of Composite Structures via MEMS Sensor Networks: Numerical and Experimental Results. <i>Proceedings (mdpi)</i> , 2017, 1, 749.	0.2	0
70	A Multiscale Approach to the Smart Deployment of Micro-Sensors over Lightweight Structures. <i>Sensors</i> , 2017, 17, 1632.	3.8	3
71	Foreword: Proceedings of the 3rd International Electronic Conference on Sensors and Applications. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	0
72	Origami-Inspired Smart Building Skin. <i>Proceedings (mdpi)</i> , 2017, 1, 42.	0.2	1

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73	Uncertainty Quantification of Microstructure-Governed Properties of Polysilicon MEMS. Micromachines, 2017, 8, 248.	2.9	20
74	Damage Detection in Flexible Plates through Reduced-Order Modeling and Hybrid Particle-Kalman Filtering. Sensors, 2016, 16, 2.	3.8	54
75	Micromechanical Characterization of Polysilicon Films through On-Chip Tests. Sensors, 2016, 16, 1191.	3.8	22
76	A 3D Numerical Model for the Optimization of Running Tracks Performance. Procedia Engineering, 2016, 147, 854-859.	1.2	2
77	Towards Safer Helmets: Characterisation, Modelling and Monitoring. Procedia Engineering, 2016, 147, 478-483.	1.2	13
78	Coupled domain decomposition-proper orthogonal decomposition methods for the simulation of quasi-brittle fracture processes. Advanced Modeling and Simulation in Engineering Sciences, 2016, 3, .	1.7	7
79	Strengthening and rehabilitation of exterior RC beam-column joints using carbon-FRP jacketing. Materials and Structures/Materiaux Et Constructions, 2016, 49, 5067-5083.	3.1	44
80	A Multiscale Approach to the Smart Deployment of Micro-Sensors over Flexible Plates. Proceedings (mdpi), 2016, 1, .	0.2	1
81	Optimal Sensor Placement through Bayesian Experimental Design: Effect of Measurement Noise and Number of Sensors. Proceedings (mdpi), 2016, 1, .	0.2	7
82	Assessment of Micromechanically-Induced Uncertainties in the Electromechanical Response of MEMS Devices. Proceedings (mdpi), 2016, 1, .	0.2	2
83	AN OPTIMAL SENSOR PLACEMENT METHOD FOR SHM BASED ON BAYESIAN EXPERIMENTAL DESIGN AND POLYNOMIAL CHAOS EXPANSION. , 2016, , .		15
84	Towards real-time health monitoring of structural systems via recursive Bayesian filtering and reduced order modelling. International Journal of Sustainable Materials and Structural Systems, 2015, 2, 27.	0.1	2
85	Model Order Reduction and domain decomposition strategies for the solution of the dynamic elastic-plastic structural problem. Computer Methods in Applied Mechanics and Engineering, 2015, 290, 127-155.	6.6	55
86	Simplified modeling of beam vibrations induced by a moving mass by regression analysis. Acta Mechanica, 2015, 226, 2147-2157.	2.1	20
87	Online Damage Detection in Plates via Vibration Measurements. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 85-91.	0.5	1
88	Modeling of shock absorption in athletics track surfaces. Sports Engineering, 2015, 18, 1-10.	1.1	15
89	An Efficient Earth Magnetic Field MEMS Sensor: Modeling, Experimental Results, and Optimization. Journal of Microelectromechanical Systems, 2015, 24, 887-895.	2.5	18
90	Investigation of the Effectiveness and Robustness of an MEMS-Based Structural Health Monitoring System for Composite Laminates. IEEE Sensors Journal, 2014, 14, 2208-2215.	4.7	12

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91	Fluid damping in compliant, comb-actuated torsional micromirrors. , 2014, , .		5
92	Experimental assessment of ductile damage in P91 steel at high temperature. International Journal of Damage Mechanics, 2014, 23, 567-587.	4.2	8
93	Geometry optimization of a Lorentz force, resonating MEMS magnetometer. Microelectronics Reliability, 2014, 54, 1192-1199.	1.7	18
94	Damage detection by updating structural models based on linear objective functions. Journal of Civil Structural Health Monitoring, 2014, 4, 165-176.	3.9	9
95	A three-scale approach to the numerical simulation of metallic bonding for MEMS packaging. Microelectronics Reliability, 2014, 54, 2039-2043.	1.7	0
96	An efficient earth magnetic field MEMS sensor: Modelling and experimental results. , 2014, , .		3
97	Damage localization in shear buildings by direct updating of physical properties. International Journal of Advanced Structural Engineering, 2014, 6, 1-12.	1.3	1
98	Damage detection in structural systems by improved sensitivity of modal strain energy and Tikhonov regularization method. International Journal of Dynamics and Control, 2014, 2, 509-520.	2.5	17
99	Microsystems and Mechanics. Procedia IUTAM, 2014, 10, 138-160.	1.2	6
100	Smart sensing of damage in flexible plates through MEMS. International Journal of Mechanisms and Robotic Systems, 2014, 2, 67.	0.1	4
101	Domain decomposition and model order reduction methods applied to the simulation of multi-physics problems in MEMS. Computers and Structures, 2013, 122, 113-127.	4.4	27
102	A multi-scale approach to wafer to wafer metallic bonding in MEMS. , 2013, , .		3
103	Optimal design of a resonating MEMS magnetometer: A multi-physics approach. , 2013, , .		3
104	MEMS-based surface mounted health monitoring system for composite laminates. Microelectronics Journal, 2013, 44, 598-605.	2.0	23
105	Investigation of computational and accuracy issues in POD-based reduced order modeling of dynamic structural systems. Engineering Structures, 2013, 54, 150-167.	5.3	58
106	Recent Advances in Computational Methods for Microsystems. Advanced Materials Research, 2013, 745, 13-25.	0.3	6
107	Sensor deployment over damage-containing plates: A topology optimization approach. Journal of Intelligent Material Systems and Structures, 2013, 24, 1105-1122.	2.5	12
108	Optimization of sensor placement to detect damage in flexible plates. Engineering Optimization, 2013, 45, 659-676.	2.6	32

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109	Physically-Based Reduced Order Modelling of a Uni-Axial Polysilicon MEMS Accelerometer. <i>Sensors</i> , 2012, 12, 13985-14003.	3.8	14
110	Dual estimation of partially observed nonlinear structural systems: A particle filter approach. <i>Mechanics Research Communications</i> , 2012, 46, 54-61.	1.8	38
111	Stochastic system identification via particle and sigma-point Kalman filtering. <i>Scientia Iranica</i> , 2012, 19, 982-991.	0.4	31
112	Parallelized sigma-point Kalman filtering for structural dynamics. <i>Computers and Structures</i> , 2012, 92-93, 193-205.	4.4	39
113	Overall elastic domain of thin polysilicon films. <i>Computational Materials Science</i> , 2011, 50, 2993-3004.	3.0	17
114	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
115	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
116	Structural Integrity Assessment of a Pipeline Subjected to an Underwater Explosion. , 2011, , .		3
117	Two-Scale Simulation of Drop-Induced Failure of Polysilicon MEMS Sensors. <i>Sensors</i> , 2011, 11, 4972-4989.	3.8	29
118	Two-scale vs three-scale FE analyses of shock-induced failure in polysilicon MEMS. , 2010, , .		1
119	Effect of Microstructure Evolution on the Overall Response of Porous-Plastic Solids. <i>Materials</i> , 2010, 3, 1031-1048.	2.9	0
120	Experimental-Numerical Assessment of Impact-Induced Damage in Cross-Ply Laminates. <i>Advanced Structured Materials</i> , 2010, , 493-504.	0.5	2
121	Simplified modelling of continous buried pipelines subject to earthquake fault rupture. <i>Earthquake and Structures</i> , 2010, 1, 253-267.	1.0	23
122	Failure Assessment of Layered Composites Subject to Impact Loadings: a Finite Element, Sigma-Point Kalman Filter Approach. <i>Algorithms</i> , 2009, 2, 808-827.	2.1	6
123	Modeling Impact-induced Failure of Polysilicon MEMS: A Multi-scale Approach. <i>Sensors</i> , 2009, 9, 556-567.	3.8	47
124	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
125	Polysilicon MEMS accelerometers exposed to shocks: numericalâ€œexperimental investigation. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 035023.	2.6	39
126	A multiscale-stochastic finite element approach to shock-induced polysilicon MEMS failure. , 2009, , .		2

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127	A Finite Element Flux-Corrected Transport Method for Wave Propagation in Heterogeneous Solids. Algorithms, 2009, 2, 1-18.	2.1	7
128	A three-scale FE approach to reliability analysis of MEMS sensors subject to impacts. Meccanica, 2008, 43, 469-483.	2.0	40
129	Numerical-experimental comparison of low-g and high-g tests on a polysilicon MEMS accelerometer. , 2008, , .		0
130	Thermal, Mechanical and MultiPhysics Simulation and Experiments in Microelectronics and Microsystems (EUROSIME'2006). Sensor Letters, 2008, 6, 1-2.	0.4	3
131	Multi-Scale Modeling of Shock-Induced Failure of Polysilicon MEMS. , 2007, , .		4
132	Multi-scale Analysis of MEMS Sensors Subject to Drop Impacts. Sensors, 2007, 7, 1817-1833.	3.8	63
133	An extended FE strategy for transition from continuum damage to mode I cohesive crack propagation. International Journal for Numerical and Analytical Methods in Geomechanics, 2007, 31, 213-238.	3.3	109
134	Extended finite element simulation of quasi-brittle fracture in functionally graded materials. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4013-4026.	6.6	65
135	Unscented Kalman filtering for nonlinear structural dynamics. Nonlinear Dynamics, 2007, 49, 131-150.	5.2	138
136	Mechanical characterization of Ti-5Al-2.5Sn ELI alloy at cryogenic and room temperatures. International Journal of Fracture, 2007, 146, 61-77.	2.2	21
137	A one-dimensional variational formulation for quasibrittle fracture. Journal of Mechanics of Materials and Structures, 2006, 1, 1323-1343.	0.6	8
138	Numerical analysis of rate-dependent dynamic composite delamination. Composites Science and Technology, 2006, 66, 766-775.	7.8	45
139	Extended Fe Simulations of Crack Growth in Layered and Functionally Graded Materials. , 2006, , 931-932.		0
140	Impact Induced Composite Delamination: State and Parameter Identification via Unscented Kalman Filter. , 2006, , 1251-1252.		0
141	Impact induced composite delamination: state and parameter identification via joint and dual extended Kalman filters. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 5242-5272.	6.6	67
142	Parameter identification in explicit structural dynamics: performance of the extended Kalman filter. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3807-3835.	6.6	139
143	Extended finite element method for quasi-brittle fracture. International Journal for Numerical Methods in Engineering, 2003, 58, 103-126.	2.8	172
144	Numerical modeling of rate-dependent debonding processes in composites. Composite Structures, 2003, 61, 39-50.	5.8	45

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145	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
146	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
147	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
148	Anisotropic behaviour of porous, ductile media. <i>International Journal of Solids and Structures</i> , 2001, 38, 2427-2451.	2.7	12
149	Title is missing!. <i>International Journal of Fracture</i> , 2000, 104, 349-373.	2.2	40
150	Analysis of ductile fracture in damaged pipelines by a geometric parameter method. <i>Engineering Structures</i> , 1999, 21, 924-936.	5.3	7
151	A Time Series Autoencoder for Load Identification via Dimensionality Reduction of Sensor Recordings. , 0, , .		0
152	On-Chip Assessment of Scattering in the Response of Si-Based Microdevices. , 0, , .		0
153	Piezoelectric Ultrasonic Micromotor. , 0, , .		0
154	A Piezo-MEMS Device for Fatigue Testing of Thin Metal Layers. , 0, , .		0
155	The Effects of MTMD and HBI on the Performance of a Benchmark Building Against Near-Field Earthquakes Using Fuzzy Logic. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 0, , 1.	1.9	1