Hua Li

List of Publications by Citations

159 papers	2,955 citations	31 h-index	44 g-index
166 ext. papers	3,582 ext. citations	4.9 avg, IF	5.96 L-index

#	Paper	IF	Citations
159	Indoor occupancy estimation from carbon dioxide concentration. *Energy and Buildings*, **2016**, 131, 132-141	7	108
158	Modeling and simulation of the swelling behavior of pH-stimulus-responsive hydrogels. *Biomacromolecules*, **2005**, 6, 109-20	6.9	95
157	A feedforward neural network based indoor-climate control framework for thermal comfort and energy saving in buildings. *Applied Energy*, **2019**, 248, 44-53	10.7	82
156	Transient analysis of temperature-sensitive neutral hydrogels. *Journal of the Mechanics and Physics of Solids*, **2008**, 56, 444-466	5	79
155	Fatigue and fracture behaviour of laser powder bed fusion stainless steel 316L: Influence of processing parameters. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 703, 251-261	5.3	76
154	Model development and numerical simulation of electric-stimulus-responsive hydrogels subject to an externally applied electric field. *Biosensors and Bioelectronics*, **2004**, 19, 1097-107	11.8	70
153	Thermal comfort prediction using normalized skin temperature in a uniform built environment. *Energy and Buildings*, **2018**, 159, 426-440	7	70
152	Random forest based thermal comfort prediction from gender-specific physiological parameters using wearable sensing technology. *Energy and Buildings*, **2018**, 166, 391-406	7	69
151	Hermite□loud: a novel true meshless method. *Computational Mechanics*, **2003**, 33, 30-41	4	67
150	Modeling Investigation of Hydrogel Volume Transition. *Macromolecular Theory and Simulations*, **2004**, 13, 13-29	1.5	64
149	Development of a novel meshless Local Kriging (LoKriging) method for structural dynamic analysis. *Computer Methods in Applied Mechanics and Engineering*, **2004**, 193, 2599-2619	5.7	54
148	High cycle fatigue life prediction of laser additive manufactured stainless steel: A machine learning approach. *International Journal of Fatigue*, **2019**, 128, 105194	5	53
147	Modeling of multiphase smart hydrogels responding to pH and electric voltage coupled stimuli. *Journal of Applied Physics*, **2007**, 101, 114905	2.5	53
146	Modeling and simulation of microfluid effects on deformation behavior of a red blood cell in a capillary. *Microvascular Research*, **2010**, 80, 453-63	3.7	46
145	Machine learning based fatigue life prediction with effects of additive manufacturing process parameters for printed SS 316L. *International Journal of Fatigue*, **2021**, 142, 105941	5	45
144	Predictive models for fatigue property of laser powder bed fusion stainless steel 316L. *Materials and Design*, **2018**, 145, 42-54	8.1	44
143	Thermal performance of concrete-based roofs in tropical climate. *Energy and Buildings*, **2014**, 76, 392-401	7	42

142	Sensor Placement by Maximal Projection on Minimum Eigenspace for Linear Inverse Problems. *IEEE Transactions on Signal Processing*, **2016**, 64, 5595-5610	4.8	37
141	A coupled field study on the non-linear dynamic characteristics of an electrostatic micropump. *Journal of Sound and Vibration*, **2004**, 273, 989-1006	3.9	37
140	Smart Hydrogel Modelling **2009**,		37
139	Analysis of responsive characteristics of ionic-strength-sensitive hydrogel with consideration of effect of equilibrium constant by a chemo-electro-mechanical model. *Langmuir*, **2009**, 25, 13142-50	4	36
138	Robust model predictive control of discrete nonlinear systems with time delays and disturbances via T S fuzzy approach. *Journal of Process Control*, **2017**, 53, 70-79	3.9	35
137	Multiphysical modeling and meshless simulation of electric-sensitive hydrogels. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 1514-1531	2.6	35
136	Modeling and simulation of chemo-electro-mechanical behavior of pH-electric-sensitive hydrogel. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 863-73	4.4	34
135	A gradient smoothing method (GSM) with directional correction for solid mechanics problems. *Computational Mechanics*, **2007**, 41, 457-472	4	34
134	An efficient model development and experimental study for the heat transfer in naturally ventilated inclined roofs. *Building and Environment*, **2014**, 81, 296-308	6.5	33
133	Kinetics of smart hydrogels responding to electric field: A transient deformation analysis. *International Journal of Solids and Structures*, **2009**, 46, 1326-1333	3.1	33
132	Modeling of ionic transport in electric-stimulus-responsive hydrogels. *Journal of Membrane Science*, **2007**, 289, 284-296	9.6	33
131	A novel multiphysic model for simulation of swelling equilibrium of ionized thermal-stimulus responsive hydrogels. *Chemical Physics*, **2005**, 309, 201-208	2.3	32
130	Modeling of effect of initial fixed charge density on smart hydrogel response to ionic strength of environmental solution. *Soft Matter*, **2010**, 6, 311-320	3.6	31
129	A chemo-electro-mechanical model for simulation of responsive deformation of glucose-sensitive hydrogels with the effect of enzyme catalysis. *Journal of the Mechanics and Physics of Solids*, **2009**, 57, 369-382	5	31
128	Radial point interpolation based finite difference method for mechanics problems. *International Journal for Numerical Methods in Engineering*, **2006**, 68, 728-754	2.4	31
127	Fuzzy Model Predictive Control of Discrete-Time Systems with Time-Varying Delay and Disturbances. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 1192-1206	8.3	30
126	High cycle fatigue and ratcheting interaction of laser powder bed fusion stainless steel 316L: Fracture behaviour and stress-based modelling. *International Journal of Fatigue*, **2019**, 121, 252-264	5	30
125	Development of a novel fatigue damage model with AM effects for life prediction of commonly-used alloys in aerospace. *International Journal of Mechanical Sciences*, **2019**, 155, 110-124	5.5	29

124	Transformation of hard pollen into soft matter. *Nature Communications*, **2020**, 11, 1449	17.4	28
123	Modeling the effect of environmental solution pH on the mechanical characteristics of glucose-sensitive hydrogels. *Biomaterials*, **2009**, 30, 690-700	15.6	27
122	Development of a Multiphysics Model to Characterize the Responsive Behavior of Magnetic-Sensitive Hydrogels with Finite Deformation. *Journal of Physical Chemistry B*, **2017**, 121, 5633-5646	3.4	26
121	Robust Fuzzy Model Predictive Control of Discrete-Time Takagi–Sugeno Systems With Nonlinear Local Models. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 2915-2925	8.3	26
120	Analysis of pH and electrically controlled swelling of hydrogel-based micro-sensors/actuators. *Biomedical Microdevices*, **2007**, 9, 487-99	3.7	26
119	Numerical simulation of controlled nifedipine release from chitosan microgels. *Journal of Applied Polymer Science*, **2004**, 93, 1928-1937	2.9	26
118	Modeling Investigation of Volume Variation Kinetics of Fast Response Hydrogels. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **2004**, 44, 113-130		25
117	Meshless steady-state analysis of chemo-electro-mechanical coupling behavior of pH-sensitive hydrogel in buffered solution. *Journal of Electroanalytical Chemistry*, **2005**, 580, 161-172	4.1	25
116	Machine learning driven personal comfort prediction by wearable sensing of pulse rate and skin temperature. *Building and Environment*, **2020**, 170, 106615	6.5	25
115	Reduced model for the planar solid oxide fuel cell. *Computers and Chemical Engineering*, **2013**, 52, 155-167	4	24
114	Modeling and simulation of deformation of hydrogels responding to electric stimulus. *Journal of Biomechanics*, **2007**, 40, 1091-8	2.9	24
113	A transient simulation to predict the kinetic behavior of hydrogels responsive to electric stimulus. *Biomacromolecules*, **2006**, 7, 1951-9	6.9	24
112	Development of a multiphysics model to characterize the responsive behavior of urea-sensitive hydrogel as biosensor. *Biosensors and Bioelectronics*, **2017**, 91, 673-679	11.8	23
111	Machine learning based prediction of thermal comfort in buildings of equatorial Singapore **2017**,		23
110	A gradient smoothing method (GSM) based on strong form governing equation for adaptive analysis of solid mechanics problems. *Finite Elements in Analysis and Design*, **2008**, 44, 889-909	2.2	23
109	Chemo-electro-mechanical modeling of ionic-strength-sensitive hydrogel: Influence of Young's modulus. *International Journal of Solids and Structures*, **2010**, 47, 3141-3149	3.1	21
108	Reduced non-isothermal model for the planar solid oxide fuel cell and stack. *Energy*, **2014**, 70, 478-492	7.9	20
107	Transient modeling of the reversible response of the hydrogel to the change in the ionic strength of solutions. *Mechanics of Materials*, **2011**, 43, 287-298	3.3	20

106	Modeling of electric-stimulus-responsive hydrogels immersed in different bathing solutions. *Journal of Biomedical Materials Research - Part A*, **2008**, 85, 248-57	5.4	19
105	Preparation, properties, and mathematical modeling of microparticle drug delivery systems based on biodegradable amphiphilic triblock copolymers. *Journal of Applied Polymer Science*, **2004**, 92, 3869-3873	2.9	19
104	Constitutive model development and micro-structural topology optimisation for nafion hydrogel membranes with ionic clustering. *Journal of Biomaterials Science, Polymer Edition*, **2003**, 14, 1181-96	3.5	19
103	A novel approach based on the elastoplastic fatigue damage and machine learning models for life prediction of aerospace alloy parts fabricated by additive manufacturing. *International Journal of Fatigue*, **2021**, 145, 106089	5	19
102	Natural convective heat transfer in the inclined rectangular cavities with low width-to-height ratios. *International Journal of Heat and Mass Transfer*, **2016**, 93, 398-407	4.9	18
101	Numerical modeling of the behavior of an elastic capsule in a microchannel flow: The initial motion. *Physical Review E*, **2009**, 79, 046710	2.4	17
100	Modeling and characterization of glucose-sensitive hydrogel: effect of Young's modulus. *Biosensors and Bioelectronics*, **2009**, 24, 3630-6	11.8	17
99	Multiphysics modelling of volume phase transition of ionic hydrogels responsive to thermal stimulus. *Macromolecular Bioscience*, **2005**, 5, 904-14	5.5	17
98	Development of a new meshless point weighted least-squares (PWLS) method for computational mechanics. *Computational Mechanics*, **2005**, 35, 170-181	4	17
97	Novel Solvent-Free Methods for Fabrication of Nano- and Microsphere Drug Delivery Systems from Functional Biodegradable Polymers. *Journal of Physical Chemistry C*, **2007**, 111, 12681-12685	3.8	16
96	A new hybrid meshless-differential order reduction (hM-DOR) method with applications to shape control of smart structures via distributed sensors/actuators. *Engineering Structures*, **2003**, 25, 141-154	4.7	16
95	Optimization of Deformable Magnetic-Sensitive Hydrogel-Based Targeting System in Suspension Fluid for Site-Specific Drug Delivery. *Molecular Pharmaceutics*, **2018**, 15, 4632-4642	5.6	15
94	Efficient Robust Fuzzy Model Predictive Control of Discrete Nonlinear Time-Delay Systems via Razumikhin Approach. *IEEE Transactions on Fuzzy Systems*, **2019**, 27, 262-272	8.3	15
93	Computational analysis of dynamic interaction of two red blood cells in a capillary. *Cell Biochemistry and Biophysics*, **2014**, 69, 673-80	3.2	15
92	Modeling performance of a two-dimensional capsule in a microchannel flow: long-term lateral migration. *Physical Review E*, **2010**, 82, 026304	2.4	15
91	Modeling and simulation of the deformation of multi-state hydrogels subjected to electrical stimuli. *Engineering Analysis With Boundary Elements*, **2006**, 30, 1011-1017	2.6	15
90	Cu- and Fe-Codoped Ni Porous Networks as an Active Electrocatalyst for Hydrogen Evolution in Alkaline Medium. *ACS Applied Materials & Interfaces*, **2020**, 12, 2380-2389	9.5	15
89	Elucidating the Relations Between Monotonic and Fatigue Properties of Laser Powder Bed Fusion Stainless Steel 316L. *Jom*, **2018**, 70, 390-395	2.1	15

88	Correlating variability of modeling parameters with non-isothermal stack performance: Monte Carlo simulation of a portable 3D planar solid oxide fuel cell stack. *Applied Energy*, **2014**, 136, 560-575	10.7	14
87	Transient modeling for kinetic swelling/deswelling of the ionic-strength-sensitive hydrogel. *European Physical Journal E*, **2010**, 31, 269-74	1.5	14
86	Multiphysics modeling of responsive characteristics of ionic-strength-sensitive hydrogel. *Biomedical Microdevices*, **2010**, 12, 419-34	3.7	13
85	A novel true meshless numerical technique (hM-DOR method) for the deformation control of circular plates integrated with piezoelectric sensors/actuators. *Smart Materials and Structures*, **2003**, 12, 955-961	3.4	13
84	Simulation of the influences of bathing solution and crosslink density on the swelling equilibrium of ionic thermo-sensitive hydrogels. *Biophysical Chemistry*, **2005**, 118, 57-68	3.5	13
83	On assuming Mean Radiant Temperature equal to air temperature during PMV-based thermal comfort study in air-conditioned buildings **2016**,		13
82	Simulation of soft smart hydrogels responsive to pH stimulus: Ionic strength effect and case studies. *Materials Science and Engineering C*, **2009**, 29, 2261-2269	8.3	12
81	Modeling the dual oxygen- and pH-stimulated response of hemoglobin-loaded polyampholyte hydrogel for oxygen-pH coupled biosensor platform. *Sensors and Actuators B: Chemical*, **2019**, 286, 421-428	8.5	11
80	Transition of Magnetic Field Due to Geometry of Magneto-Active Elastomer Microactuator With Nonlinear Deformation. *Journal of Microelectromechanical Systems*, **2018**, 27, 127-136	2.5	11
79	Parameter Study of Glucose-Sensitive Hydrogel: Effect of Immobilized Glucose Oxidase on Diffusion and Deformation. *Soft Materials*, **2013**, 11, 69-74	1.7	11
78	Numerical simulation of pH-stimuli responsive hydrogel in buffer solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2004**, 249, 149-154	5.1	11
77	Transient simulation for kinetic responsive behaviors of electric-sensitive hydrogels subject to applied electric field. *Materials Science and Engineering C*, **2005**, 25, 710-712	8.3	11
76	A machine learning guided investigation of quality repeatability in metal laser powder bed fusion additive manufacturing. *Materials and Design*, **2021**, 203, 109606	8.1	11
75	NiAg 3D porous nanoclusters with epitaxial interfaces exhibiting Pt like activity towards hydrogen evolution in alkaline medium. *Nanoscale*, **2020**, 12, 8432-8442	7.7	10
74	Sensor and CFD data fusion for airflow field estimation. *Applied Thermal Engineering*, **2016**, 92, 149-161	5.8	10
73	2D simulation of the deformation of pH-sensitive hydrogel by novel strong-form meshless random differential quadrature method. *Computational Mechanics*, **2011**, 48, 729-753	4	10
72	Multiphysics modeling of electrochemomechanically smart microgels responsive to coupled pH/electric stimuli. *Macromolecular Bioscience*, **2009**, 9, 287-97	5.5	10
71	A modeling study of the effect of environmental ionic valence on the mechanical characteristics of pH-electrosensitive hydrogel. *Acta Biomaterialia*, **2009**, 5, 2920-8	10.8	10

70	Transient simulation of kinetics of electric-sensitive hydrogels. *Biosensors and Bioelectronics*, **2007**, 22, 1633-41	11.8	10
69	Optimization of the cell microenvironment in a dual magnetic-pH-sensitive hydrogel-based scaffold by multiphysics modeling. *Bioelectrochemistry*, **2019**, 129, 90-99	5.6	9
68	Modeling the urea-actuated osmotic pressure response of urease-loaded hydrogel for osmotic urea biosensor. *Sensors and Actuators B: Chemical*, **2018**, 268, 465-474	8.5	9
67	Transient analysis of the effect of the initial fixed charge density on the kinetic characteristics of the ionic-strength-sensitive hydrogel by a multi-effect-coupling model. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 1233-43	4.4	9
66	Multiscale Simulation of Coupled Length-Scales via Meshless Method and Molecular Dynamics. *Mechanics of Advanced Materials and Structures*, **2009**, 16, 1-11	1.8	9
65	Modeling of a fast-response magnetic-sensitive hydrogel for dynamic control of microfluidic flow. *Physical Chemistry Chemical Physics*, **2019**, 21, 1852-1862	3.6	8
64	Correlating variability of modeling parameters with cell performance: Monte Carlo simulation of a quasi-3D planar solid oxide fuel cell. *Renewable Energy*, **2016**, 85, 1301-1315	8.1	8
63	Modeling the Impact of pH- and Oxygen-Coupled Stimuli on Osmotic Pressure and Electrical Potential Responses of Hemoglobin-Loaded Polyampholyte Hydrogel.. *ACS Applied Bio Materials*, **2018**, 1, 318-327	4.1	8
62	Multiscale modeling of nanoindentation in copper thin films via the concurrent coupling of the meshless Hermite□loud method with molecular dynamics. *Applied Surface Science*, **2011**, 257, 10613-10620	6.7	8
61	A multiphysics model of photo-sensitive hydrogels in response to light-thermo-pH-salt coupled stimuli for biomedical applications. *Bioelectrochemistry*, **2020**, 135, 107584	5.6	7
60	Urease catalytic behaviors induced by both urea and salt concentrations in ion-exchange hydrogels as dialysis membranes. *Reactive and Functional Polymers*, **2018**, 127, 74-84	4.6	7
59	Two-stage indoor physical field reconstruction from sparse sensor observations. *Energy and Buildings*, **2017**, 151, 548-563	7	7
58	Life-cycle cost analysis of roofing technologies in tropical areas. *Energy and Buildings*, **2017**, 151, 283-292	7	7
57	A concurrent multiscale method based on the alternating Schwarz scheme for coupling atomic and continuum scales with first-order compatibility. *Computational Mechanics*, **2011**, 47, 1-16	4	7
56	A meshless Hermite-Cloud method for nonlinear fluid-structure analysis of near-bed submarine pipelines under current. *Engineering Structures*, **2004**, 26, 531-542	4.7	7
55	Multiphysics modeling of responsive deformation of dual magnetic-pH-sensitive hydrogel. *International Journal of Solids and Structures*, **2020**, 190, 76-92	3.1	7
54	Effects of salt- and oxygen-coupled stimuli on the reactive behaviors of hemoglobin-loaded polymeric membranes. *Electrochimica Acta*, **2019**, 297, 307-318	6.7	7
53	Phase-field model for liquid□olid phase transition of physical hydrogel in an ionized environment subject to electro□hemo□hermo□echanical coupled field. *International Journal of Solids and Structures*, **2018**, 138, 134-143	3.1	6

52	Spatially smoothed fuel cell models: Variability of dependent variables underneath flow fields. *International Journal of Hydrogen Energy*, **2014**, 39, 4566-4575	6.7	6
51	Liquid-solid phase transition of physical hydrogels subject to an externally applied electro-chemo-mechanical coupled field with mobile ionic species. *Physical Chemistry Chemical Physics*, **2017**, 19, 21012-21023	3.6	6
50	Numerical design of microfluidic-microelectric hybrid chip for the separation of biological cells. *Langmuir*, **2011**, 27, 3188-97	4	6
49	On the random differential quadrature (RDQ) method: consistency analysis and application in elasticity problems. *Computational Mechanics*, **2009**, 44, 563-590	4	6
48	PHENOMENOLOGICAL MODEL FOR COUPLED ALCOHOL AND TEMPERATURE SENSITIVE HYDROGELS. *International Journal of Applied Mechanics*, **2011**, 03, 279-298	2.4	6
47	On the development of adaptive random differential quadrature method with an error recovery technique and its application in the locally high gradient problems. *Computational Mechanics*, **2010**, 45, 467-493	4	6
46	Coupled chemo-electro-mechanical simulation for smart hydrogels that are responsive to an external electric field. *Smart Materials and Structures*, **2007**, 16, 1185-1191	3.4	6
45	Meshless Modeling of pH-Sensitive Hydrogels Subjected to Coupled pH and Electric Field Stimuli: Young Modulus Effects and Case Studies. *Macromolecular Chemistry and Physics*, **2007**, 208, 1137-1146	2.6	6
44	Low-velocity impact on square sandwich plates with fibre-metal laminate face-sheets: Analytical and numerical research. *Composite Structures*, **2021**, 259, 113461	5.3	6
43	Effect of heat treatment on fatigue crack initiation of laser powder bed fusion stainless steel 316L. *MATEC Web of Conferences*, **2018**, 165, 22006	0.3	6
42	Fatigue behavior of ASTM A131 EH36 steel samples additively manufactured with selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 777, 139049	5.3	5
41	Modeling of Ionic-Strength-Sensitive Hydrogel: Effect of Initial Distance Between the Fixed Charges. *Soft Materials*, **2013**, 11, 13-21	1.7	5
40	Qualitative and quantitative analysis of dynamic deformation of a cell in nonuniform alternating electric field. *Journal of Applied Physics*, **2011**, 110, 104701	2.5	5
39	Modeling the Influence of Initial Geometry on the Equilibrium Responses of Glucose-Sensitive Hydrogel. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 715-722	2.3	5
38	Influence of Young's modulus and geometrical shapes on the 2D simulation of pH-sensitive hydrogels by the meshless random differential quadrature method. *Modelling and Simulation in Materials Science and Engineering*, **2011**, 19, 065009	2	5
37	A modeling analysis for effect of elastic modulus on kinetics of ionic-strength-sensitive hydrogel. *Acta Mechanica*, **2015**, 226, 1957-1969	2.1	4
36	A transient simulation to predict the kinetic behavior of magnetic-sensitive hydrogel responsive to magnetic stimulus. *International Journal of Mechanical Sciences*, **2020**, 182, 105765	5.5	4
35	Effects of interlayer notch and shear stress on interlayer strength of 3D printed cement paste. *Additive Manufacturing*, **2020**, 36, 101390	6.1	4

34	Interface behavior of physical hydrogel subject to solution-gel phase transition and nonlinear deformation. *International Journal of Solids and Structures*, **2016**, 100-101, 417-426	3.1	4
33	A diffuse-interface modeling for liquid solution-solid gel phase transition of physical hydrogel with nonlinear deformation. *Electrophoresis*, **2016**, 37, 2699-2709	3.6	4
32	Physical field estimation from CFD database and sparse sensor observations **2015**,		4
31	A random integral quadrature method for numerical analysis of the second kind of Volterra integral equations. *Journal of Computational and Applied Mathematics*, **2013**, 237, 35-42	2.4	4
30	Motion, deformation and aggregation of two cells in a microchannel by dielectrophoresis. *Electrophoresis*, **2011**, 32, 3147-56	3.6	4
29	Simulation analysis of effect of ionic strength on physiochemical and mechanical characteristics of glucose-sensitive hydrogels. *Journal of Electroanalytical Chemistry*, **2009**, 635, 83-92	4.1	4
28	Numerical analysis of soft pH-sensitive hydrogel: Effect of multivalent ionic compositions. *Polymer Engineering and Science*, **2010**, 50, 429-439	2.3	4
27	Static and dynamic experiments on hydrogels: Effects of the chemical composition of the fluid. *Mechanics of Materials*, **2021**, 154, 103717	3.3	4
26	ANALYSIS OF THE KINETICS OF SHRINKING OF THE IONIC-STRENGTH-SENSITIVE HYDROGEL WITH A MULTI-PHYSICAL MODEL. *International Journal of Applied Mechanics*, **2011**, 03, 313-334	2.4	3
25	Considering higher-order effects of residual attachment modes in free-interface component mode synthesis method for non-classically damped systems. *Journal of Sound and Vibration*, **2020**, 469, 115129	3.9	3
24	CFD results calibration from sparse sensor observations with a case study for indoor thermal map. *Building and Environment*, **2017**, 117, 166-177	6.5	2
23	Two-dimensional numerical modeling for separation of deformable cells using dielectrophoresis. *Electrophoresis*, **2015**, 36, 378-85	3.6	2
22	Nanoscratch Simulation on a Copper Thin Film Using a Novel Multiscale Model. *Journal of Nanomechanics & Micromechanics*, **2014**, 4,		2
21	Computational Analysis of Influence of Ionic Strength on Smart Hydrogel Subject to Coupled pH-Electric Environmental Stimuli. *Mechanics of Advanced Materials and Structures*, **2010**, 17, 573-583	1.8	2
20	Bio-chemo-electro-mechanical modelling of the rapid movement of Mimosa pudica. *Bioelectrochemistry*, **2020**, 134, 107533	5.6	2
19	Convolutional Neural Network and Kernel Methods for Occupant Thermal State Detection using Wearable Technology **2018**,		2
18	Dynamic collapse of metal self-similar hierarchical corrugated sandwich plates subject to shear and compression coupled loading. *Journal of Sandwich Structures and Materials*, **2020**, 109963622090599	2.1	1
17	A review on recent development of theoretical modeling of hydrogel phase behavior subject to mechanics and multiphysics coupled effects. *Mechanics of Soft Materials*, **2019**, 1, 1	2.1	1

16	A novel interface-tracking method based on Lagrangian particles for deformation analysis of a red blood cell in a capillary. *International Journal for Numerical Methods in Fluids*, **2012**, 69, 1031-1044	1.9	1
15	Analysis of interactions between elastic capsules in two-dimensional microchannel flow. *Computational Materials Science*, **2010**, 49, S70-S75	3.2	1
14	Numerical modeling of motion trajectory and deformation behavior of a cell in a nonuniform electric field. *Biomicrofluidics*, **2011**, 5, 21101	3.2	1
13	Machine-Learning Based Modelling for AM Processes **2020**,		1
12	Design of novel nozzles for higher interlayer strength of 3D printed cement paste. *Additive Manufacturing*, **2021**, 48, 102452	6.1	1
11	Avoiding abnormal grain growth when annealing selective laser melted pure titanium by promoting nucleation. *Scripta Materialia*, **2022**, 209, 114377	5.6	1
10	Feasibility analysis for control of bioaerosol concentration at indoor corner via airflow from ventilation outlet with energy optimization. *Journal of Cleaner Production*, **2020**, 248, 119289	10.3	1
9	Unraveling the distinct germination processes of sporopollenin-based pollen grains and spores through morphological analyses upon natural nano-architectonics process. *Applied Materials Today*, **2022**, 27, 101471	6.6	1
8	Model for the phase separation of poly(N-isopropylacrylamide)-clay nanocomposite hydrogel based on energy-density functional. *Physical Review E*, **2020**, 101, 062118	2.4	0
7	Neural-network-based control of discrete-phase concentration in a gas-particle corner flow with optimal energy consumption. *Computers and Mathematics With Applications*, **2020**, 80, 1360-1374	2.7	0
6	Development of Reduced PEMFC Models **2017**, 89-165		
5	Integrated Stochastic and Deterministic Sensitivity Analysis: Correlating Variability of Design Parameters with Cell and Stack Performance **2017**, 227-269		
4	Model development and numerical simulation of magnetic-sensitive hydrogels subject to an externally applied magnetic field. *Procedia Engineering*, **2017**, 214, 93-97		
3	Characterization of dual urea- and pH-induced behaviors of smart hydrogel at human physiological conditions. *Procedia Engineering*, **2017**, 214, 86-92		
2	New Approaches for the Simulation of Micro-Fluidics in MEMS. *Computational and Experimental Methods in Structures*, **2008**, 121-152		
1	Novel Models for Smart Hydrogel Responsive to Other Stimuli: Glucose Concentration and Ionic Strength **2009**, 295-333		