

# Hua Li

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Avoiding abnormal grain growth when annealing selective laser melted pure titanium by promoting nucleation. <i>Scripta Materialia</i> , <b>2022</b> , 209, 114377	5.6	1
158	Unraveling the distinct germination processes of sporopollenin-based pollen grains and spores through morphological analyses upon natural nano-architectonics process. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101471	6.6	1
157	Design of novel nozzles for higher interlayer strength of 3D printed cement paste. <i>Additive Manufacturing</i> , <b>2021</b> , 48, 102452	6.1	1
156	A machine learning guided investigation of quality repeatability in metal laser powder bed fusion additive manufacturing. <i>Materials and Design</i> , <b>2021</b> , 203, 109606	8.1	11
155	A novel approach based on the elastoplastic fatigue damage and machine learning models for life prediction of aerospace alloy parts fabricated by additive manufacturing. <i>International Journal of Fatigue</i> , <b>2021</b> , 145, 106089	5	19
154	Static and dynamic experiments on hydrogels: Effects of the chemical composition of the fluid. <i>Mechanics of Materials</i> , <b>2021</b> , 154, 103717	3.3	4
153	Machine learning based fatigue life prediction with effects of additive manufacturing process parameters for printed SS 316L. <i>International Journal of Fatigue</i> , <b>2021</b> , 142, 105941	5	45
152	Low-velocity impact on square sandwich plates with fibre-metal laminate face-sheets: Analytical and numerical research. <i>Composite Structures</i> , <b>2021</b> , 259, 113461	5.3	6
151	A transient simulation to predict the kinetic behavior of magnetic-sensitive hydrogel responsive to magnetic stimulus. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 182, 105765	5.5	4
150	Model for the phase separation of poly(N-isopropylacrylamide)-clay nanocomposite hydrogel based on energy-density functional. <i>Physical Review E</i> , <b>2020</b> , 101, 062118	2.4	0
149	A multiphysics model of photo-sensitive hydrogels in response to light-thermo-pH-salt coupled stimuli for biomedical applications. <i>Bioelectrochemistry</i> , <b>2020</b> , 135, 107584	5.6	7
148	Transformation of hard pollen into soft matter. <i>Nature Communications</i> , <b>2020</b> , 11, 1449	17.4	28
147	Dynamic collapse of metal self-similar hierarchical corrugated sandwich plates subject to shear and compression coupled loading. <i>Journal of Sandwich Structures and Materials</i> , <b>2020</b> , 109963622090599	2.1	1
146	Effects of interlayer notch and shear stress on interlayer strength of 3D printed cement paste. <i>Additive Manufacturing</i> , <b>2020</b> , 36, 101390	6.1	4
145	Fatigue behavior of ASTM A131 EH36 steel samples additively manufactured with selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 777, 139049	5.3	5
144	NiAg 3D porous nanoclusters with epitaxial interfaces exhibiting Pt like activity towards hydrogen evolution in alkaline medium. <i>Nanoscale</i> , <b>2020</b> , 12, 8432-8442	7.7	10
143	Machine-Learning Based Modelling for AM Processes <b>2020</b> ,		1

142	Bio-chemo-electro-mechanical modelling of the rapid movement of Mimosa pudica. <i>Bioelectrochemistry</i> , <b>2020</b> , 134, 107533	5.6	2
141	Multiphysics modeling of responsive deformation of dual magnetic-pH-sensitive hydrogel. <i>International Journal of Solids and Structures</i> , <b>2020</b> , 190, 76-92	3.1	7
140	Machine learning driven personal comfort prediction by wearable sensing of pulse rate and skin temperature. <i>Building and Environment</i> , <b>2020</b> , 170, 106615	6.5	25
139	Feasibility analysis for control of bioaerosol concentration at indoor corner via airflow from ventilation outlet with energy optimization. <i>Journal of Cleaner Production</i> , <b>2020</b> , 248, 119289	10.3	1
138	Considering higher-order effects of residual attachment modes in free-interface component mode synthesis method for non-classically damped systems. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 469, 115129	3.9	3
137	Cu- and Fe-Codoped Ni Porous Networks as an Active Electrocatalyst for Hydrogen Evolution in Alkaline Medium. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2380-2389	9.5	15
136	Neural-network-based control of discrete-phase concentration in a gas-particle corner flow with optimal energy consumption. <i>Computers and Mathematics With Applications</i> , <b>2020</b> , 80, 1360-1374	2.7	0
135	Modeling of a fast-response magnetic-sensitive hydrogel for dynamic control of microfluidic flow. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 1852-1862	3.6	8
134	Optimization of the cell microenvironment in a dual magnetic-pH-sensitive hydrogel-based scaffold by multiphysics modeling. <i>Bioelectrochemistry</i> , <b>2019</b> , 129, 90-99	5.6	9
133	A feedforward neural network based indoor-climate control framework for thermal comfort and energy saving in buildings. <i>Applied Energy</i> , <b>2019</b> , 248, 44-53	10.7	82
132	Development of a novel fatigue damage model with AM effects for life prediction of commonly-used alloys in aerospace. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 155, 110-124	5.5	29
131	Modeling the dual oxygen- and pH-stimulated response of hemoglobin-loaded polyampholyte hydrogel for oxygen-pH coupled biosensor platform. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 286, 421-428	8.5	11
130	Efficient Robust Fuzzy Model Predictive Control of Discrete Nonlinear Time-Delay Systems via Razumikhin Approach. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2019</b> , 27, 262-272	8.3	15
129	High cycle fatigue life prediction of laser additive manufactured stainless steel: A machine learning approach. <i>International Journal of Fatigue</i> , <b>2019</b> , 128, 105194	5	53
128	A review on recent development of theoretical modeling of hydrogel phase behavior subject to mechanics and multiphysics coupled effects. <i>Mechanics of Soft Materials</i> , <b>2019</b> , 1, 1	2.1	1
127	High cycle fatigue and ratcheting interaction of laser powder bed fusion stainless steel 316L: Fracture behaviour and stress-based modelling. <i>International Journal of Fatigue</i> , <b>2019</b> , 121, 252-264	5	30
126	Effects of salt- and oxygen-coupled stimuli on the reactive behaviors of hemoglobin-loaded polymeric membranes. <i>Electrochimica Acta</i> , <b>2019</b> , 297, 307-318	6.7	7
125	Predictive models for fatigue property of laser powder bed fusion stainless steel 316L. <i>Materials and Design</i> , <b>2018</b> , 145, 42-54	8.1	44

124	Random forest based thermal comfort prediction from gender-specific physiological parameters using wearable sensing technology. <i>Energy and Buildings</i> , <b>2018</b> , 166, 391-406	7	69
123	Transition of Magnetic Field Due to Geometry of Magneto-Active Elastomer Microactuator With Nonlinear Deformation. <i>Journal of Microelectromechanical Systems</i> , <b>2018</b> , 27, 127-136	2.5	11
122	Phase-field model for liquid-solid phase transition of physical hydrogel in an ionized environment subject to electrochemo-thermo-mechanical coupled field. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 138, 134-143	3.1	6
121	Modeling the urea-actuated osmotic pressure response of urease-loaded hydrogel for osmotic urea biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 268, 465-474	8.5	9
120	Robust Fuzzy Model Predictive Control of Discrete-Time Takagi-Sugeno Systems With Nonlinear Local Models. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2018</b> , 26, 2915-2925	8.3	26
119	Fuzzy Model Predictive Control of Discrete-Time Systems with Time-Varying Delay and Disturbances. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2018</b> , 26, 1192-1206	8.3	30
118	Modeling the Impact of pH- and Oxygen-Coupled Stimuli on Osmotic Pressure and Electrical Potential Responses of Hemoglobin-Loaded Polyampholyte Hydrogel.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 318-327	4.1	8
117	Urease catalytic behaviors induced by both urea and salt concentrations in ion-exchange hydrogels as dialysis membranes. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 127, 74-84	4.6	7
116	Optimization of Deformable Magnetic-Sensitive Hydrogel-Based Targeting System in Suspension Fluid for Site-Specific Drug Delivery. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 4632-4642	5.6	15
115	Elucidating the Relations Between Monotonic and Fatigue Properties of Laser Powder Bed Fusion Stainless Steel 316L. <i>Jom</i> , <b>2018</b> , 70, 390-395	2.1	15
114	Thermal comfort prediction using normalized skin temperature in a uniform built environment. <i>Energy and Buildings</i> , <b>2018</b> , 159, 426-440	7	70
113	Convolutional Neural Network and Kernel Methods for Occupant Thermal State Detection using Wearable Technology <b>2018</b> ,		2
112	Effect of heat treatment on fatigue crack initiation of laser powder bed fusion stainless steel 316L. <i>MATEC Web of Conferences</i> , <b>2018</b> , 165, 22006	0.3	6
111	Development of a multiphysics model to characterize the responsive behavior of urea-sensitive hydrogel as biosensor. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 673-679	11.8	23
110	Development of Reduced PEMFC Models <b>2017</b> , 89-165		
109	Integrated Stochastic and Deterministic Sensitivity Analysis: Correlating Variability of Design Parameters with Cell and Stack Performance <b>2017</b> , 227-269		
108	CFD results calibration from sparse sensor observations with a case study for indoor thermal map. <i>Building and Environment</i> , <b>2017</b> , 117, 166-177	6.5	2
107	Development of a Multiphysics Model to Characterize the Responsive Behavior of Magnetic-Sensitive Hydrogels with Finite Deformation. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 5633-5646	3.4	26

106	Robust model predictive control of discrete nonlinear systems with time delays and disturbances via TB fuzzy approach. <i>Journal of Process Control</i> , <b>2017</b> , 53, 70-79	3.9	35
105	Machine learning based prediction of thermal comfort in buildings of equatorial Singapore <b>2017</b> ,		23
104	Fatigue and fracture behaviour of laser powder bed fusion stainless steel 316L: Influence of processing parameters. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 703, 251-261	5.3	76
103	Two-stage indoor physical field reconstruction from sparse sensor observations. <i>Energy and Buildings</i> , <b>2017</b> , 151, 548-563	7	7
102	Liquid-solid phase transition of physical hydrogels subject to an externally applied electro-chemo-mechanical coupled field with mobile ionic species. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 21012-21023	3.6	6
101	Life-cycle cost analysis of roofing technologies in tropical areas. <i>Energy and Buildings</i> , <b>2017</b> , 151, 283-292		7
100	Model development and numerical simulation of magnetic-sensitive hydrogels subject to an externally applied magnetic field. <i>Procedia Engineering</i> , <b>2017</b> , 214, 93-97		
99	Characterization of dual urea- and pH-induced behaviors of smart hydrogel at human physiological conditions. <i>Procedia Engineering</i> , <b>2017</b> , 214, 86-92		
98	Interface behavior of physical hydrogel subject to solution-gel phase transition and nonlinear deformation. <i>International Journal of Solids and Structures</i> , <b>2016</b> , 100-101, 417-426	3.1	4
97	A diffuse-interface modeling for liquid solution-solid gel phase transition of physical hydrogel with nonlinear deformation. <i>Electrophoresis</i> , <b>2016</b> , 37, 2699-2709	3.6	4
96	Sensor Placement by Maximal Projection on Minimum Eigenspace for Linear Inverse Problems. <i>IEEE Transactions on Signal Processing</i> , <b>2016</b> , 64, 5595-5610	4.8	37
95	Sensor and CFD data fusion for airflow field estimation. <i>Applied Thermal Engineering</i> , <b>2016</b> , 92, 149-161	5.8	10
94	Natural convective heat transfer in the inclined rectangular cavities with low width-to-height ratios. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 93, 398-407	4.9	18
93	Correlating variability of modeling parameters with cell performance: Monte Carlo simulation of a quasi-3D planar solid oxide fuel cell. <i>Renewable Energy</i> , <b>2016</b> , 85, 1301-1315	8.1	8
92	On assuming Mean Radiant Temperature equal to air temperature during PMV-based thermal comfort study in air-conditioned buildings <b>2016</b> ,		13
91	Indoor occupancy estimation from carbon dioxide concentration. <i>Energy and Buildings</i> , <b>2016</b> , 131, 132-141		108
90	A modeling analysis for effect of elastic modulus on kinetics of ionic-strength-sensitive hydrogel. <i>Acta Mechanica</i> , <b>2015</b> , 226, 1957-1969	2.1	4
89	Two-dimensional numerical modeling for separation of deformable cells using dielectrophoresis. <i>Electrophoresis</i> , <b>2015</b> , 36, 378-85	3.6	2

88	Physical field estimation from CFD database and sparse sensor observations <b>2015</b> ,		4
87	Thermal performance of concrete-based roofs in tropical climate. <i>Energy and Buildings</i> , <b>2014</b> , 76, 392-407		42
86	Correlating variability of modeling parameters with non-isothermal stack performance: Monte Carlo simulation of a portable 3D planar solid oxide fuel cell stack. <i>Applied Energy</i> , <b>2014</b> , 136, 560-575	10.7	14
85	An efficient model development and experimental study for the heat transfer in naturally ventilated inclined roofs. <i>Building and Environment</i> , <b>2014</b> , 81, 296-308	6.5	33
84	Computational analysis of dynamic interaction of two red blood cells in a capillary. <i>Cell Biochemistry and Biophysics</i> , <b>2014</b> , 69, 673-80	3.2	15
83	Reduced non-isothermal model for the planar solid oxide fuel cell and stack. <i>Energy</i> , <b>2014</b> , 70, 478-492	7.9	20
82	Spatially smoothed fuel cell models: Variability of dependent variables underneath flow fields. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4566-4575	6.7	6
81	Nanoscratch Simulation on a Copper Thin Film Using a Novel Multiscale Model. <i>Journal of Nanomechanics &amp; Micromechanics</i> , <b>2014</b> , 4,		2
80	Parameter Study of Glucose-Sensitive Hydrogel: Effect of Immobilized Glucose Oxidase on Diffusion and Deformation. <i>Soft Materials</i> , <b>2013</b> , 11, 69-74	1.7	11
79	Modeling of Ionic-Strength-Sensitive Hydrogel: Effect of Initial Distance Between the Fixed Charges. <i>Soft Materials</i> , <b>2013</b> , 11, 13-21	1.7	5
78	Reduced model for the planar solid oxide fuel cell. <i>Computers and Chemical Engineering</i> , <b>2013</b> , 52, 155-167		24
77	A random integral quadrature method for numerical analysis of the second kind of Volterra integral equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2013</b> , 237, 35-42	2.4	4
76	A novel interface-tracking method based on Lagrangian particles for deformation analysis of a red blood cell in a capillary. <i>International Journal for Numerical Methods in Fluids</i> , <b>2012</b> , 69, 1031-1044	1.9	1
75	Qualitative and quantitative analysis of dynamic deformation of a cell in nonuniform alternating electric field. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 104701	2.5	5
74	Multiscale modeling of nanoindentation in copper thin films via the concurrent coupling of the meshless Hermite cloud method with molecular dynamics. <i>Applied Surface Science</i> , <b>2011</b> , 257, 10613-10620	6.7	8
73	A concurrent multiscale method based on the alternating Schwarz scheme for coupling atomic and continuum scales with first-order compatibility. <i>Computational Mechanics</i> , <b>2011</b> , 47, 1-16	4	7
72	2D simulation of the deformation of pH-sensitive hydrogel by novel strong-form meshless random differential quadrature method. <i>Computational Mechanics</i> , <b>2011</b> , 48, 729-753	4	10
71	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. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 399, 1233-43	4.4	9

70	Motion, deformation and aggregation of two cells in a microchannel by dielectrophoresis. <i>Electrophoresis</i> , <b>2011</b> , 32, 3147-56	3.6	4
69	Numerical design of microfluidic-microelectric hybrid chip for the separation of biological cells. <i>Langmuir</i> , <b>2011</b> , 27, 3188-97	4	6
68	Transient modeling of the reversible response of the hydrogel to the change in the ionic strength of solutions. <i>Mechanics of Materials</i> , <b>2011</b> , 43, 287-298	3.3	20
67	Numerical modeling of motion trajectory and deformation behavior of a cell in a nonuniform electric field. <i>Biomicrofluidics</i> , <b>2011</b> , 5, 21101	3.2	1
66	PHENOMENOLOGICAL MODEL FOR COUPLED ALCOHOL AND TEMPERATURE SENSITIVE HYDROGELS. <i>International Journal of Applied Mechanics</i> , <b>2011</b> , 03, 279-298	2.4	6
65	ANALYSIS OF THE KINETICS OF SHRINKING OF THE IONIC-STRENGTH-SENSITIVE HYDROGEL WITH A MULTI-PHYSICAL MODEL. <i>International Journal of Applied Mechanics</i> , <b>2011</b> , 03, 313-334	2.4	3
64	Modeling the Influence of Initial Geometry on the Equilibrium Responses of Glucose-Sensitive Hydrogel. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 715-722	2.3	5
63	Influence of Young's modulus and geometrical shapes on the 2D simulation of pH-sensitive hydrogels by the meshless random differential quadrature method. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2011</b> , 19, 065009	2	5
62	Computational Analysis of Influence of Ionic Strength on Smart Hydrogel Subject to Coupled pH-Electric Environmental Stimuli. <i>Mechanics of Advanced Materials and Structures</i> , <b>2010</b> , 17, 573-583	1.8	2
61	Modeling performance of a two-dimensional capsule in a microchannel flow: long-term lateral migration. <i>Physical Review E</i> , <b>2010</b> , 82, 026304	2.4	15
60	Modeling and simulation of microfluid effects on deformation behavior of a red blood cell in a capillary. <i>Microvascular Research</i> , <b>2010</b> , 80, 453-63	3.7	46
59	Analysis of interactions between elastic capsules in two-dimensional microchannel flow. <i>Computational Materials Science</i> , <b>2010</b> , 49, S70-S75	3.2	1
58	Modeling of effect of initial fixed charge density on smart hydrogel response to ionic strength of environmental solution. <i>Soft Matter</i> , <b>2010</b> , 6, 311-320	3.6	31
57	Transient modeling for kinetic swelling/deswelling of the ionic-strength-sensitive hydrogel. <i>European Physical Journal E</i> , <b>2010</b> , 31, 269-74	1.5	14
56	On the development of adaptive random differential quadrature method with an error recovery technique and its application in the locally high gradient problems. <i>Computational Mechanics</i> , <b>2010</b> , 45, 467-493	4	6
55	Multiphysics modeling of responsive characteristics of ionic-strength-sensitive hydrogel. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 419-34	3.7	13
54	Chemo-electro-mechanical modeling of ionic-strength-sensitive hydrogel: Influence of Young's modulus. <i>International Journal of Solids and Structures</i> , <b>2010</b> , 47, 3141-3149	3.1	21
53	Numerical analysis of soft pH-sensitive hydrogel: Effect of multivalent ionic compositions. <i>Polymer Engineering and Science</i> , <b>2010</b> , 50, 429-439	2.3	4

52	Numerical modeling of the behavior of an elastic capsule in a microchannel flow: The initial motion. <i>Physical Review E</i> , <b>2009</b> , 79, 046710	2.4	17
51	Multiphysics modeling of electrochemomechanically smart microgels responsive to coupled pH/electric stimuli. <i>Macromolecular Bioscience</i> , <b>2009</b> , 9, 287-97	5.5	10
50	On the random differential quadrature (RDQ) method: consistency analysis and application in elasticity problems. <i>Computational Mechanics</i> , <b>2009</b> , 44, 563-590	4	6
49	Simulation analysis of effect of ionic strength on physiochemical and mechanical characteristics of glucose-sensitive hydrogels. <i>Journal of Electroanalytical Chemistry</i> , <b>2009</b> , 635, 83-92	4.1	4
48	Simulation of soft smart hydrogels responsive to pH stimulus: Ionic strength effect and case studies. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 2261-2269	8.3	12
47	Modeling the effect of environmental solution pH on the mechanical characteristics of glucose-sensitive hydrogels. <i>Biomaterials</i> , <b>2009</b> , 30, 690-700	15.6	27
46	A chemo-electro-mechanical model for simulation of responsive deformation of glucose-sensitive hydrogels with the effect of enzyme catalysis. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2009</b> , 57, 369-382	5	31
45	Kinetics of smart hydrogels responding to electric field: A transient deformation analysis. <i>International Journal of Solids and Structures</i> , <b>2009</b> , 46, 1326-1333	3.1	33
44	Modeling and characterization of glucose-sensitive hydrogel: effect of Young's modulus. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 3630-6	11.8	17
43	A modeling study of the effect of environmental ionic valence on the mechanical characteristics of pH-electrosensitive hydrogel. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 2920-8	10.8	10
42	Multiscale Simulation of Coupled Length-Scales via Meshless Method and Molecular Dynamics. <i>Mechanics of Advanced Materials and Structures</i> , <b>2009</b> , 16, 1-11	1.8	9
41	Analysis of responsive characteristics of ionic-strength-sensitive hydrogel with consideration of effect of equilibrium constant by a chemo-electro-mechanical model. <i>Langmuir</i> , <b>2009</b> , 25, 13142-50	4	36
40	Smart Hydrogel Modelling <b>2009</b> ,		37
39	Novel Models for Smart Hydrogel Responsive to Other Stimuli: Glucose Concentration and Ionic Strength <b>2009</b> , 295-333		
38	Modeling of electric-stimulus-responsive hydrogels immersed in different bathing solutions. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 85, 248-57	5.4	19
37	Transient analysis of temperature-sensitive neutral hydrogels. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 444-466	5	79
36	A gradient smoothing method (GSM) based on strong form governing equation for adaptive analysis of solid mechanics problems. <i>Finite Elements in Analysis and Design</i> , <b>2008</b> , 44, 889-909	2.2	23
35	New Approaches for the Simulation of Micro-Fluidics in MEMS. <i>Computational and Experimental Methods in Structures</i> , <b>2008</b> , 121-152		



34	Coupled chemo-electro-mechanical simulation for smart hydrogels that are responsive to an external electric field. <i>Smart Materials and Structures</i> , <b>2007</b> , 16, 1185-1191	3.4	6
33	Meshless Modeling of pH-Sensitive Hydrogels Subjected to Coupled pH and Electric Field Stimuli: Young Modulus Effects and Case Studies. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 1137-1146	2.6	6
32	Transient simulation of kinetics of electric-sensitive hydrogels. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 1633-41	11.8	10
31	Modeling of ionic transport in electric-stimulus-responsive hydrogels. <i>Journal of Membrane Science</i> , <b>2007</b> , 289, 284-296	9.6	33
30	Modeling and simulation of chemo-electro-mechanical behavior of pH-electric-sensitive hydrogel. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 389, 863-73	4.4	34
29	Analysis of pH and electrically controlled swelling of hydrogel-based micro-sensors/actuators. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 487-99	3.7	26
28	A gradient smoothing method (GSM) with directional correction for solid mechanics problems. <i>Computational Mechanics</i> , <b>2007</b> , 41, 457-472	4	34
27	Modeling and simulation of deformation of hydrogels responding to electric stimulus. <i>Journal of Biomechanics</i> , <b>2007</b> , 40, 1091-8	2.9	24
26	Modeling of multiphase smart hydrogels responding to pH and electric voltage coupled stimuli. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 114905	2.5	53
25	Novel Solvent-Free Methods for Fabrication of Nano- and Microsphere Drug Delivery Systems from Functional Biodegradable Polymers. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 12681-12685	3.8	16
24	Radial point interpolation based finite difference method for mechanics problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2006</b> , 68, 728-754	2.4	31
23	A transient simulation to predict the kinetic behavior of hydrogels responsive to electric stimulus. <i>Biomacromolecules</i> , <b>2006</b> , 7, 1951-9	6.9	24
22	Modeling and simulation of the deformation of multi-state hydrogels subjected to electrical stimuli. <i>Engineering Analysis With Boundary Elements</i> , <b>2006</b> , 30, 1011-1017	2.6	15
21	Modeling and simulation of the swelling behavior of pH-stimulus-responsive hydrogels. <i>Biomacromolecules</i> , <b>2005</b> , 6, 109-20	6.9	95
20	Meshless steady-state analysis of chemo-electro-mechanical coupling behavior of pH-sensitive hydrogel in buffered solution. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 580, 161-172	4.1	25
19	Transient simulation for kinetic responsive behaviors of electric-sensitive hydrogels subject to applied electric field. <i>Materials Science and Engineering C</i> , <b>2005</b> , 25, 710-712	8.3	11
18	Simulation of the influences of bathing solution and crosslink density on the swelling equilibrium of ionic thermo-sensitive hydrogels. <i>Biophysical Chemistry</i> , <b>2005</b> , 118, 57-68	3.5	13
17	A novel multiphysic model for simulation of swelling equilibrium of ionized thermal-stimulus responsive hydrogels. <i>Chemical Physics</i> , <b>2005</b> , 309, 201-208	2.3	32

16	Multiphysics modelling of volume phase transition of ionic hydrogels responsive to thermal stimulus. <i>Macromolecular Bioscience</i> , <b>2005</b> , 5, 904-14	5.5	17
15	Development of a new meshless point weighted least-squares (PWLS) method for computational mechanics. <i>Computational Mechanics</i> , <b>2005</b> , 35, 170-181	4	17
14	A coupled field study on the non-linear dynamic characteristics of an electrostatic micropump. <i>Journal of Sound and Vibration</i> , <b>2004</b> , 273, 989-1006	3.9	37
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